

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P318424

Luminaire Tested: **GAN-SA0D-740-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 76818 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

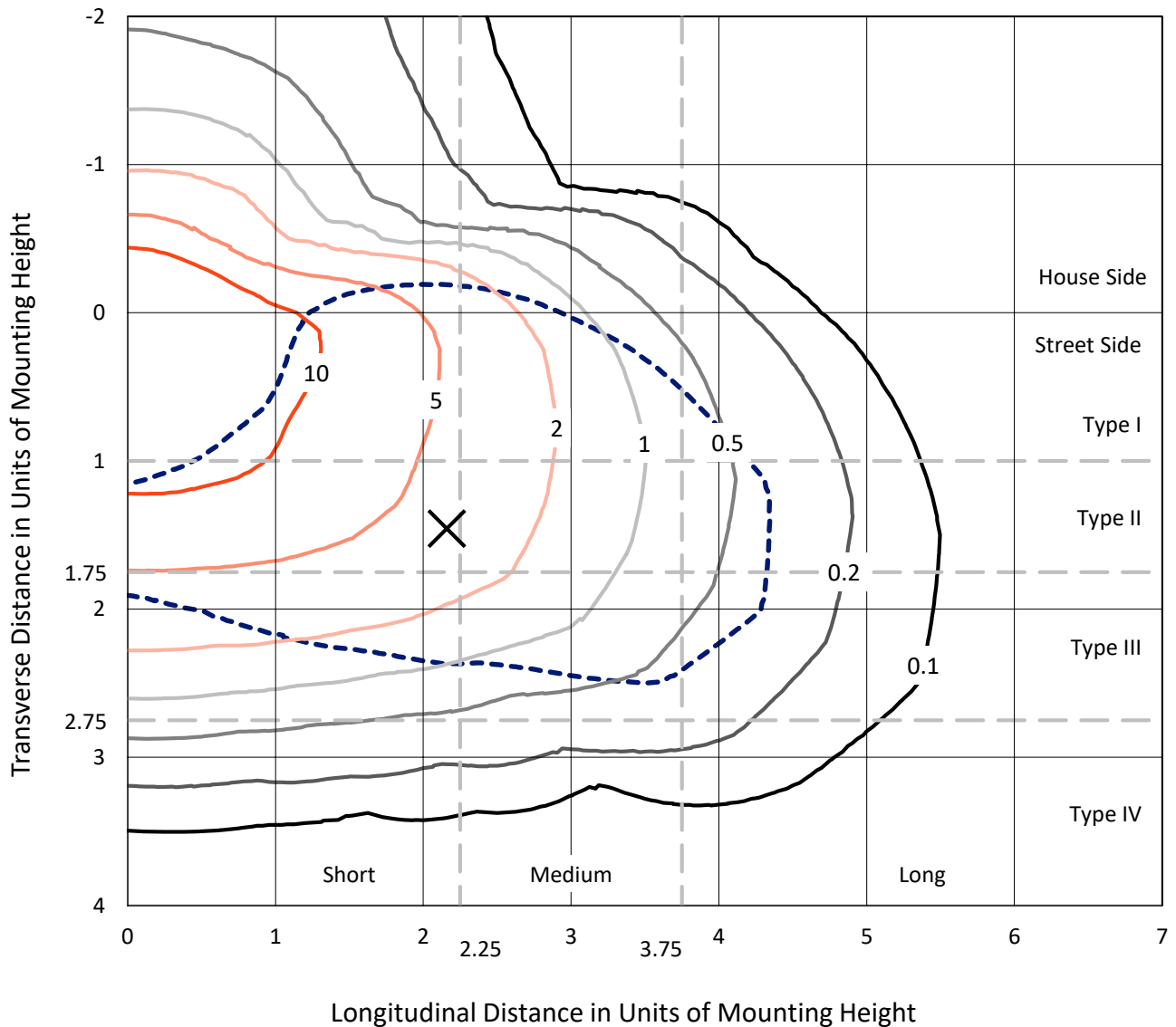
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

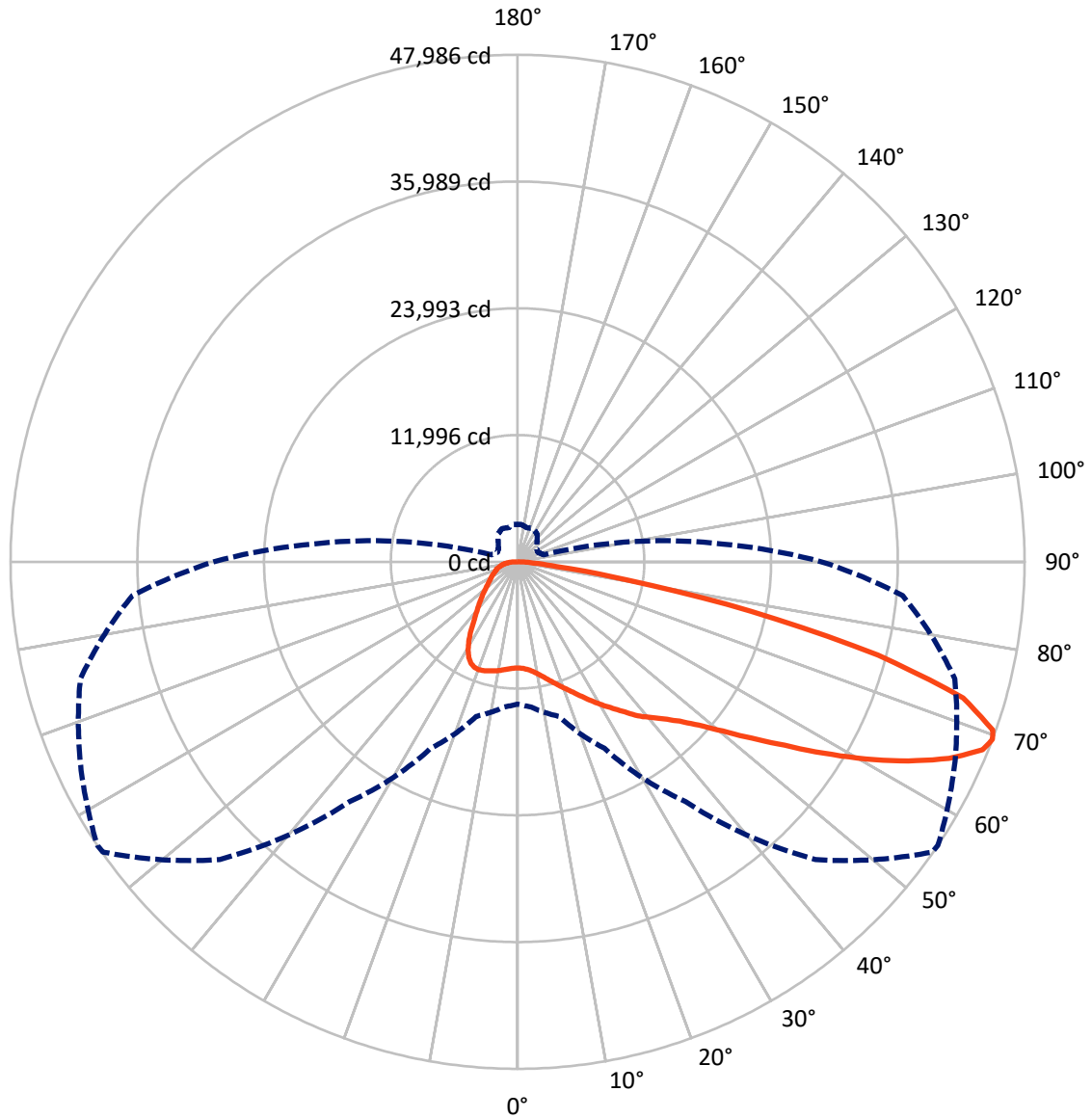
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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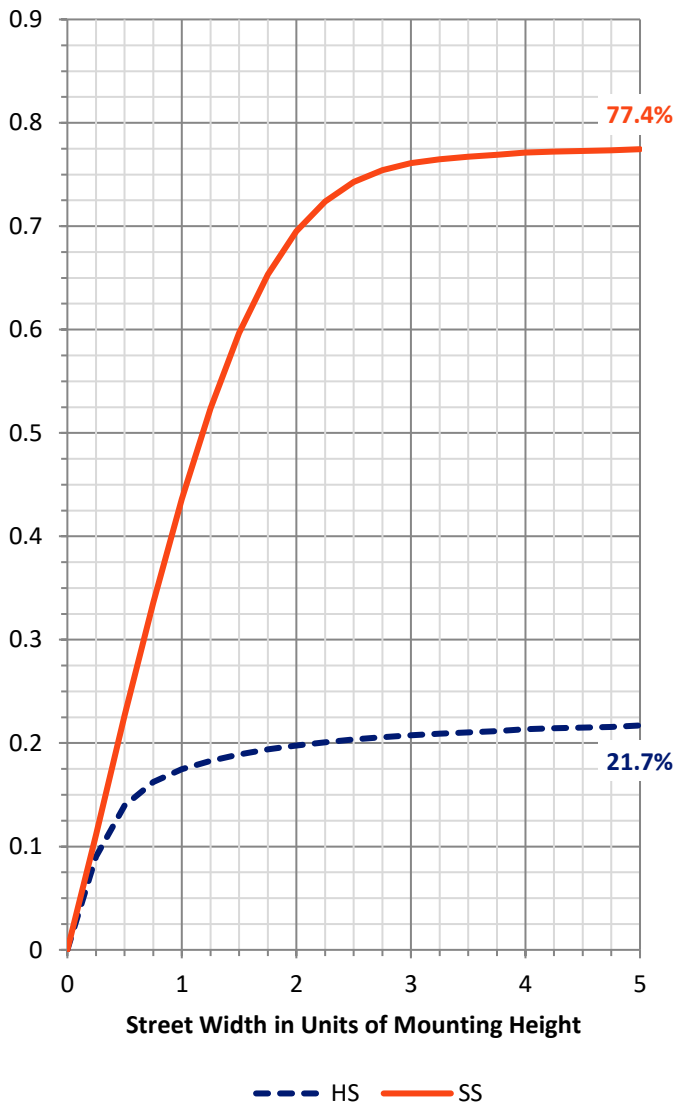
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17107.2	0.0	17107.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	59710.8	0.0	59710.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	76818.0	0.0	76818.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	986.3	1.3
10°-20°	3171.8	4.1
20°-30°	5536.6	7.2
30°-40°	7953.2	10.4
40°-50°	11006.8	14.3
50°-60°	16126.5	21.0
60°-70°	19661.2	25.6
70°-80°	10870.0	14.2
80°-90°	1505.5	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	76818.0	100.0
0°-180°	76818.0	100.0



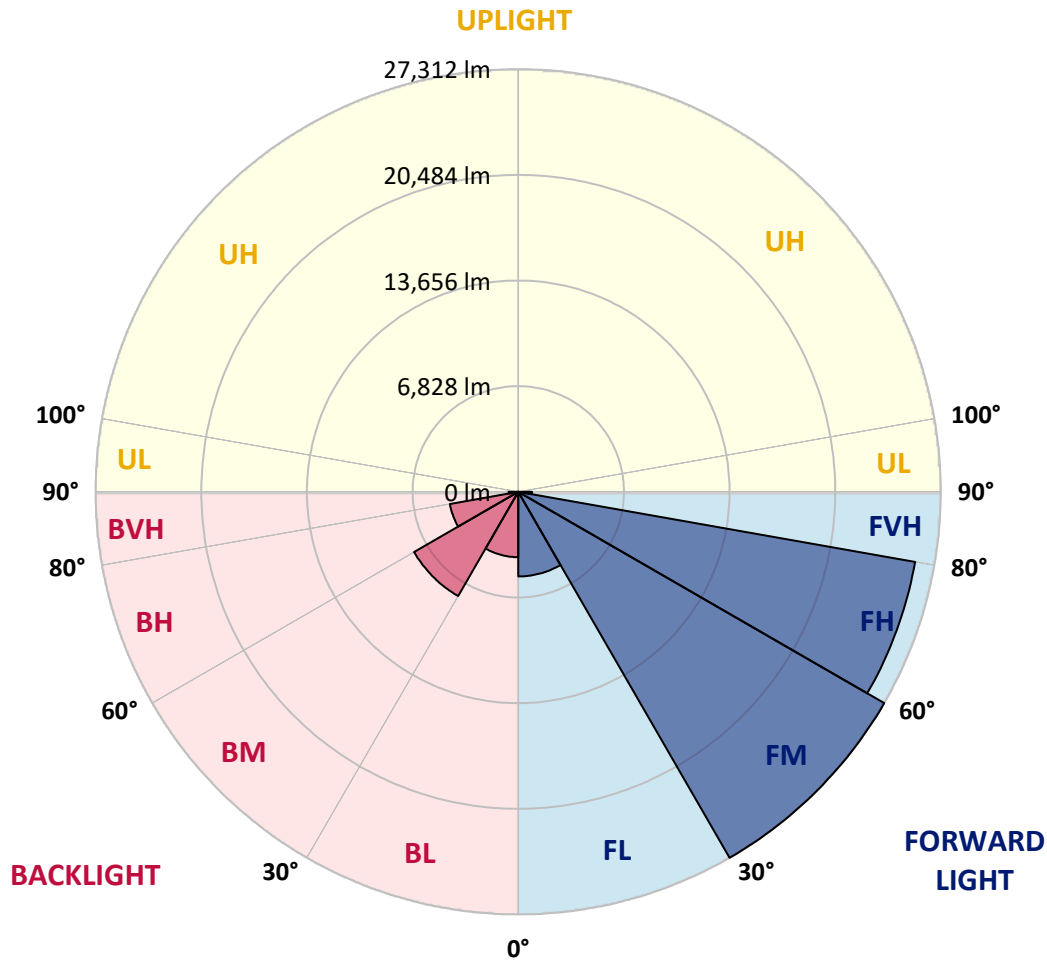
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5467.2	7.1			
FM (30°-60°)	27311.7	35.6			
FH (60°-80°)	26045.2	33.9			G5
FVH (80°-90°)	886.8	1.2			G5
BL (0°-30°)	4227.6	5.5	B4/5000		
BM (30°-60°)	7774.9	10.1	B4/8500		
BH (60°-80°)	4486.1	5.8	B4/5000		G4/5000
BVH (80°-90°)	618.7	0.8			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	10042.8	10042.8	10042.8	10042.8	10042.8	10042.8	10042.8	10042.8	10042.8	10042.8	10042.8
2.5°	10106.3	10116.9	10109.0	10130.1	10106.3	10122.2	10109.0	10109.0	10101.0	10077.2	10050.7
5°	10265.1	10286.3	10273.0	10294.2	10265.1	10270.4	10246.6	10246.6	10222.7	10172.5	10119.5
7.5°	10513.8	10537.7	10527.1	10548.2	10508.6	10508.6	10476.8	10474.1	10426.5	10344.5	10283.6
10°	10810.2	10842.0	10831.4	10863.2	10831.4	10842.0	10810.2	10810.2	10746.7	10630.3	10553.5
12.5°	11241.6	11281.3	11252.2	11249.5	11236.3	11257.5	11231.0	11225.7	11167.5	11008.7	10902.9
15°	11818.5	11860.8	11800.0	11794.7	11720.6	11712.6	11712.6	11704.7	11667.6	11477.1	11302.4
17.5°	12482.7	12495.9	12443.0	12358.3	12263.1	12202.2	12194.3	12215.4	12215.4	11993.1	11715.3
20°	13133.7	13157.5	13115.2	13019.9	12898.2	12808.2	12744.7	12787.0	12784.4	12519.8	12125.5
22.5°	13842.9	13898.5	13835.0	13713.2	13570.3	13469.8	13358.6	13395.7	13398.3	13072.8	12527.7
25°	14761.2	14710.9	14671.2	14499.2	14295.4	14192.2	14089.0	14126.1	14115.5	13668.3	12943.2
27.5°	15573.6	15584.2	15531.3	15348.7	15113.2	14885.6	14880.3	14904.1	14864.4	14287.5	13334.8
30°	16518.4	16523.6	16449.5	16285.5	16028.8	15735.0	15666.2	15705.9	15621.2	14875.0	13747.6
32.5°	17457.8	17484.3	17402.2	17203.7	16997.3	16640.1	16502.5	16528.9	16317.2	15475.7	14173.7
35°	18280.8	18317.9	18291.4	18159.1	17934.1	17627.2	17463.1	17447.2	17185.2	16211.4	14737.4
37.5°	19119.7	19154.1	19125.0	19013.8	18923.9	18598.4	18511.0	18511.0	18055.9	16962.9	15454.5
40°	19982.4	20035.3	20000.9	19847.4	19770.7	19622.5	19413.4	19363.1	18870.9	17865.3	16624.2
42.5°	20784.2	20853.0	20990.6	20900.7	20744.5	20765.7	20344.9	20318.5	19958.6	19199.1	18092.9
45°	21922.1	22022.7	22255.6	22186.8	22155.0	22038.6	21538.4	21514.6	21377.0	20993.3	19916.2
47.5°	23163.3	23300.9	23721.6	23734.9	24076.2	23856.6	23176.5	23094.5	23126.2	23142.1	22141.8
50°	24306.5	24457.3	25148.0	25473.5	26278.0	26325.6	25238.0	25163.9	25288.3	25653.5	24735.2
52.5°	25219.5	25410.0	26272.7	27278.3	28657.0	29048.7	27775.8	27720.2	27812.9	28442.7	27667.3
55°	25889.0	26095.4	27034.8	28866.1	31067.8	31758.5	30697.4	30644.4	30702.6	31504.5	30856.1
57.5°	26045.1	26095.4	27458.3	29935.2	33102.9	34762.1	34272.5	34166.7	33880.9	34579.5	34375.7
60°	25312.1	25513.2	27108.9	30311.0	34677.4	37723.3	38009.1	37876.8	37075.0	37646.6	37482.5
62.5°	23824.8	24184.7	25804.3	29739.4	35294.0	40142.1	41674.3	41515.5	40134.1	40504.6	39716.0
65°	21395.5	21549.0	23250.6	27767.9	34510.7	41690.2	44942.5	44863.1	43124.5	42544.9	40128.8
67.5°	17050.3	17338.7	18783.6	23647.5	31306.0	41507.6	47469.7	47461.8	45077.5	43301.8	38665.4
69°	13469.8	13768.8	15144.9	19479.6	27701.7	39837.8	47893.2	47985.8	45627.9	42841.3	36574.8
70°	10738.8	11085.4	12030.2	16407.2	24502.3	37636.0	47541.2	47707.9	45522.1	42081.8	34645.7
72.5°	4570.2	4850.7	5522.9	8457.6	14933.2	28104.0	43468.5	44098.3	43068.9	38514.6	28633.2
75°	1995.3	2082.7	2387.0	3448.2	6629.0	15295.7	34052.9	35217.3	36826.2	32555.1	21329.4
77.5°	1460.8	1497.8	1664.5	2024.4	2974.5	5776.9	21898.3	22575.8	26558.5	23689.9	13083.4
80°	1130.0	1156.4	1286.1	1487.2	1942.4	2336.7	9987.2	10569.4	14933.2	12167.8	5448.8
82.5°	899.7	918.3	1008.2	1095.6	1341.7	1415.8	3315.8	3678.4	5512.3	3360.8	1442.2
85°	836.2	857.4	889.2	799.2	860.1	830.9	1434.3	1500.5	1664.5	1320.5	603.4
87.5°	378.4	447.2	881.2	621.9	457.8	365.2	587.5	613.9	690.7	693.3	267.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10042.8	10042.8	10042.8	10042.8	10042.8	10042.8	10042.8	10042.8	10042.8	10042.8	10042.8
2.5°	10066.6	10058.7	10071.9	10040.2	10079.8	10077.2	10064.0	10069.3	10095.7	10093.1	10095.7
5°	10127.5	10122.2	10138.1	10114.2	10161.9	10177.8	10180.4	10204.2	10233.3	10241.3	10241.3
7.5°	10281.0	10281.0	10288.9	10257.1	10288.9	10286.3	10273.0	10296.8	10326.0	10328.6	10326.0
10°	10545.6	10548.2	10535.0	10453.0	10426.5	10355.1	10288.9	10291.6	10328.6	10357.7	10365.6
12.5°	10879.0	10868.5	10810.2	10659.4	10548.2	10402.7	10333.9	10331.2	10368.3	10392.1	10400.1
15°	11260.1	11231.0	11080.2	10834.0	10638.2	10495.3	10384.2	10357.7	10336.5	10310.1	10312.7
17.5°	11620.0	11553.8	11302.4	10961.1	10754.7	10564.1	10349.8	10177.8	10058.7	9989.9	9968.7
20°	11985.2	11855.5	11493.0	11080.2	10818.2	10471.5	10058.7	9709.4	9492.4	9391.8	9373.3
22.5°	12318.6	12109.6	11670.3	11204.5	10767.9	10159.2	9510.9	9002.8	8701.1	8566.1	8576.7
25°	12644.1	12353.0	11855.5	11291.9	10513.8	9608.8	8748.7	8124.2	7774.9	7624.1	7618.8
27.5°	12929.9	12599.1	12056.6	11220.4	10040.2	8825.5	7846.3	7237.7	6946.6	6816.9	6795.8
30°	13258.1	12908.8	12323.9	10947.8	9346.8	7920.4	6965.1	6536.4	6330.0	6200.3	6176.5
32.5°	13657.7	13329.5	12543.6	10453.0	8460.3	6975.7	6277.1	5978.0	5790.2	5644.6	5618.1
35°	14239.9	13885.3	12599.1	9743.8	7486.4	6229.4	5771.6	5464.7	5210.6	5022.7	5004.2
37.5°	14970.3	14581.2	12472.1	8825.5	6541.7	5745.2	5350.9	4972.4	4641.7	4377.0	4334.7
40°	16023.5	15436.0	12120.2	7767.0	5845.7	5372.0	4940.7	4509.3	4099.2	3789.5	3728.7
42.5°	17288.4	16439.0	11580.3	6713.7	5335.0	4993.6	4533.2	3998.6	3606.9	3387.3	3355.5
45°	18897.4	17481.6	10831.4	5792.8	4832.2	4615.2	4093.9	3601.6	3358.2	3196.8	3170.3
47.5°	20733.9	18651.3	10045.4	5043.9	4406.1	4260.6	3741.9	3424.3	3231.2	3104.1	3080.3
50°	22991.3	19971.8	9211.9	4429.9	3977.4	3834.5	3575.2	3326.4	3172.9	3075.0	3051.2
52.5°	25537.0	21461.7	8611.1	3945.7	3622.8	3519.6	3487.9	3273.5	3149.1	3075.0	3051.2
55°	28278.6	22978.0	7962.8	3538.1	3315.8	3345.0	3429.6	3278.8	3194.1	3104.1	3069.7
57.5°	31022.8	24544.6	7240.3	3194.1	3072.4	3215.3	3389.9	3289.4	3217.9	3130.6	3098.8
60°	33192.8	25537.0	6120.9	2905.7	2879.2	3072.4	3294.7	3210.0	3117.4	3120.0	3114.7
62.5°	34206.4	25484.1	4885.1	2649.0	2686.0	2879.2	3141.2	3085.6	3008.9	3112.1	3120.0
65°	33637.4	24213.9	3802.8	2416.1	2479.6	2678.1	2982.4	3024.7	3051.2	3249.7	3276.1
67.5°	31250.4	21742.2	2945.4	2212.3	2291.7	2540.5	2998.3	3294.7	3329.1	3538.1	3535.5
69°	28781.4	19424.0	2559.0	2106.5	2199.1	2574.9	3204.7	3466.7	3337.0	3559.3	3527.5
70°	26712.0	17590.1	2352.6	2035.0	2156.8	2635.7	3342.3	3464.0	3297.3	3487.9	3434.9
72.5°	20572.5	12654.7	1995.3	1902.7	2013.9	2521.9	3382.0	3387.3	3204.7	3241.7	3151.8
75°	14110.2	7997.2	1741.3	1722.8	1796.9	2273.2	3255.0	3236.5	2963.9	2911.0	2836.9
77.5°	7780.2	4062.1	1479.3	1550.7	1601.0	2013.9	2958.6	2932.1	2707.2	2596.0	2569.6
80°	3000.9	1778.3	1249.1	1378.7	1410.5	1743.9	2593.4	2569.6	2381.7	2238.8	2199.1
82.5°	1132.6	931.5	1032.1	1193.5	1182.9	1439.6	2196.4	2183.2	2000.6	1791.6	1728.0
85°	524.0	558.4	817.7	984.4	907.7	1066.5	1757.2	1781.0	1558.7	1309.9	1309.9
87.5°	222.3	312.3	579.5	743.6	611.3	719.8	1288.8	1230.5	1130.0	783.3	735.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)