

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: P318464

Luminaire Tested: **GAN-SA0D-750-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318464
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-750-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 76816 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

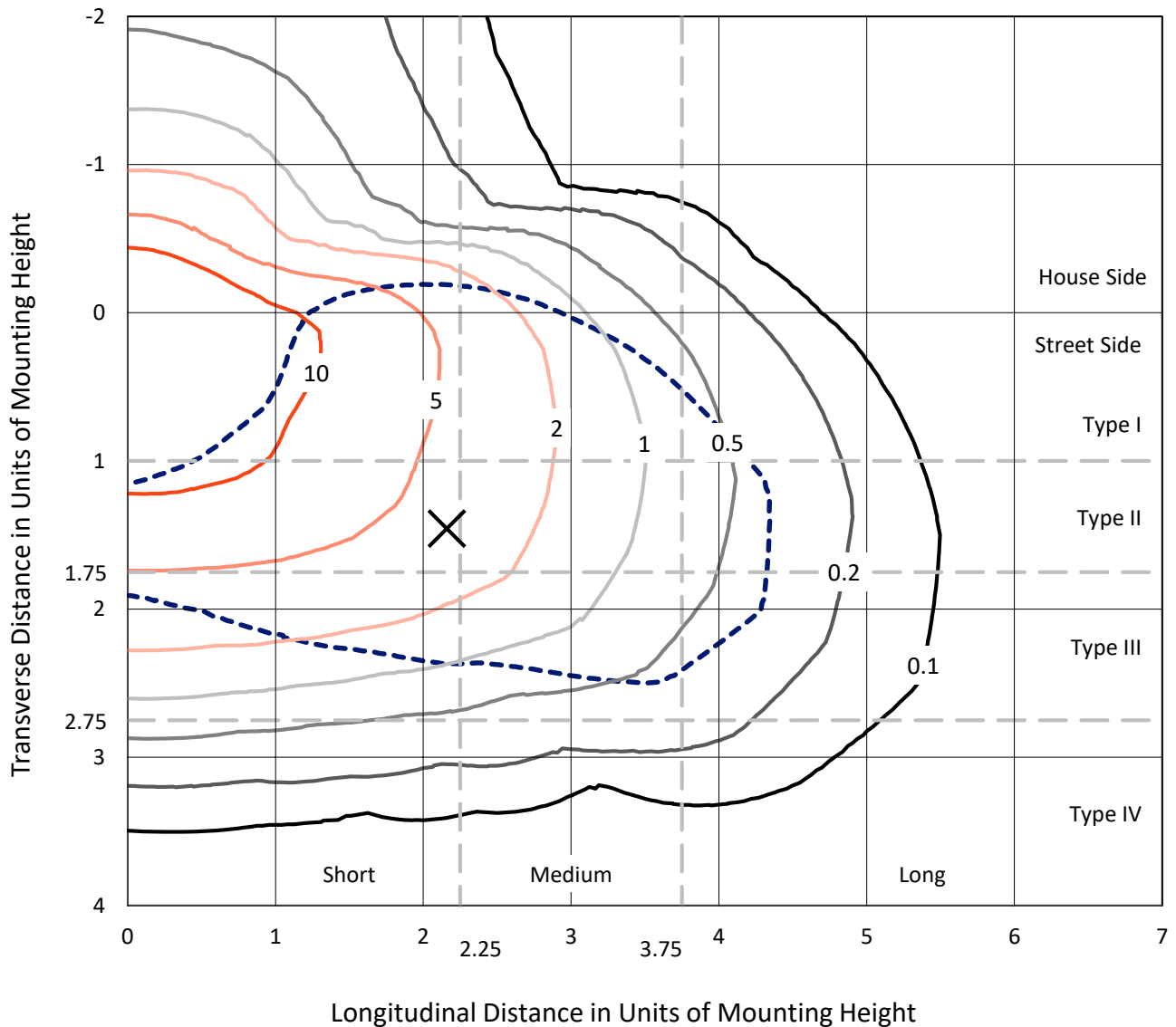
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

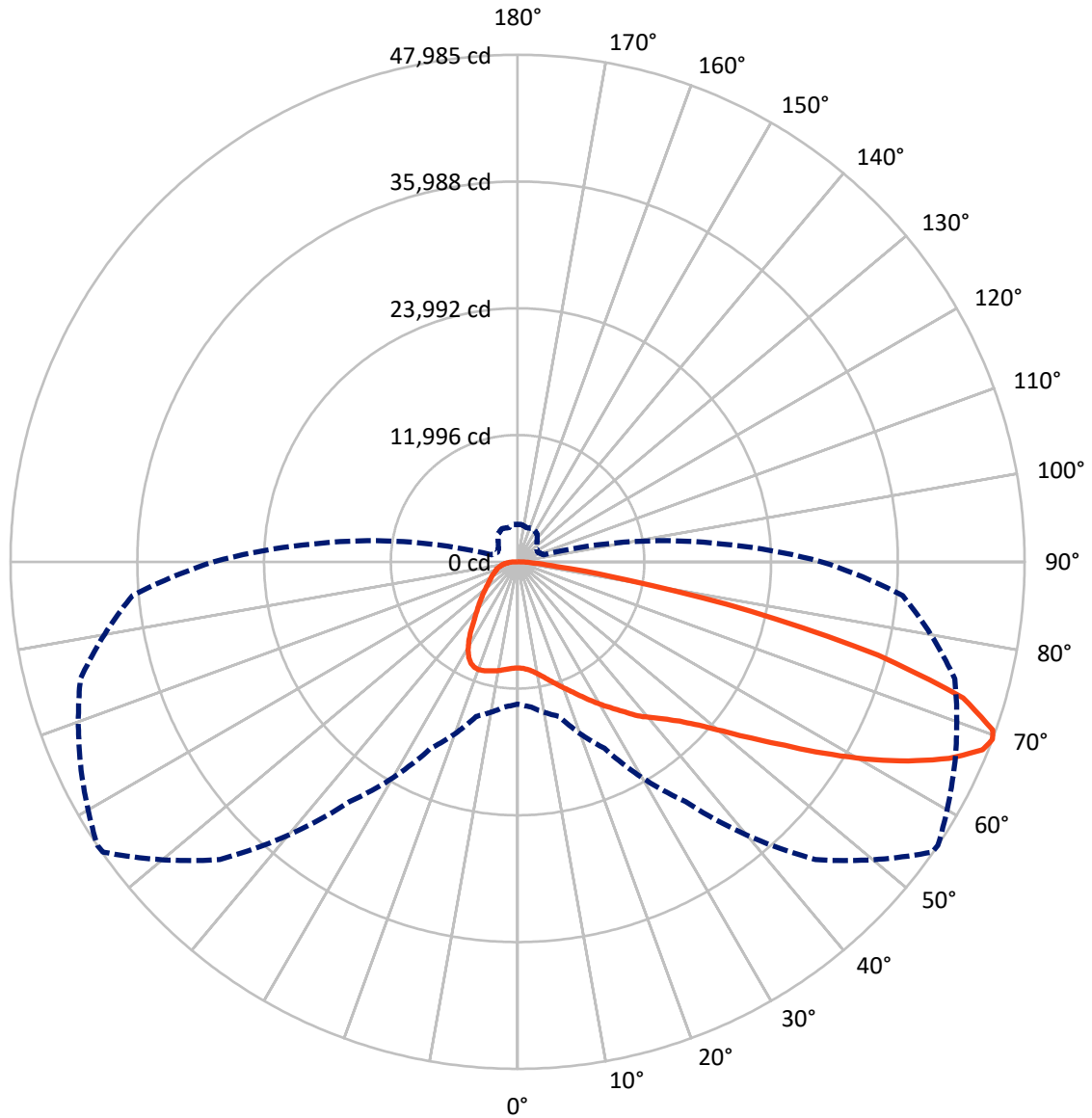
✕ Max cd
 - - - 1/2 Max cd



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	17106.8	0.0	17106.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	59709.2	0.0	59709.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	76816.0	0.0	76816.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	986.3	1.3
10°-20°	3171.7	4.1
20°-30°	5536.5	7.2
30°-40°	7953.0	10.4
40°-50°	11006.5	14.3
50°-60°	16126.1	21.0
60°-70°	19660.7	25.6
70°-80°	10869.7	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°	76816.0	100.0
0°-180°	76816.0	100.0

Coefficient of Utilization

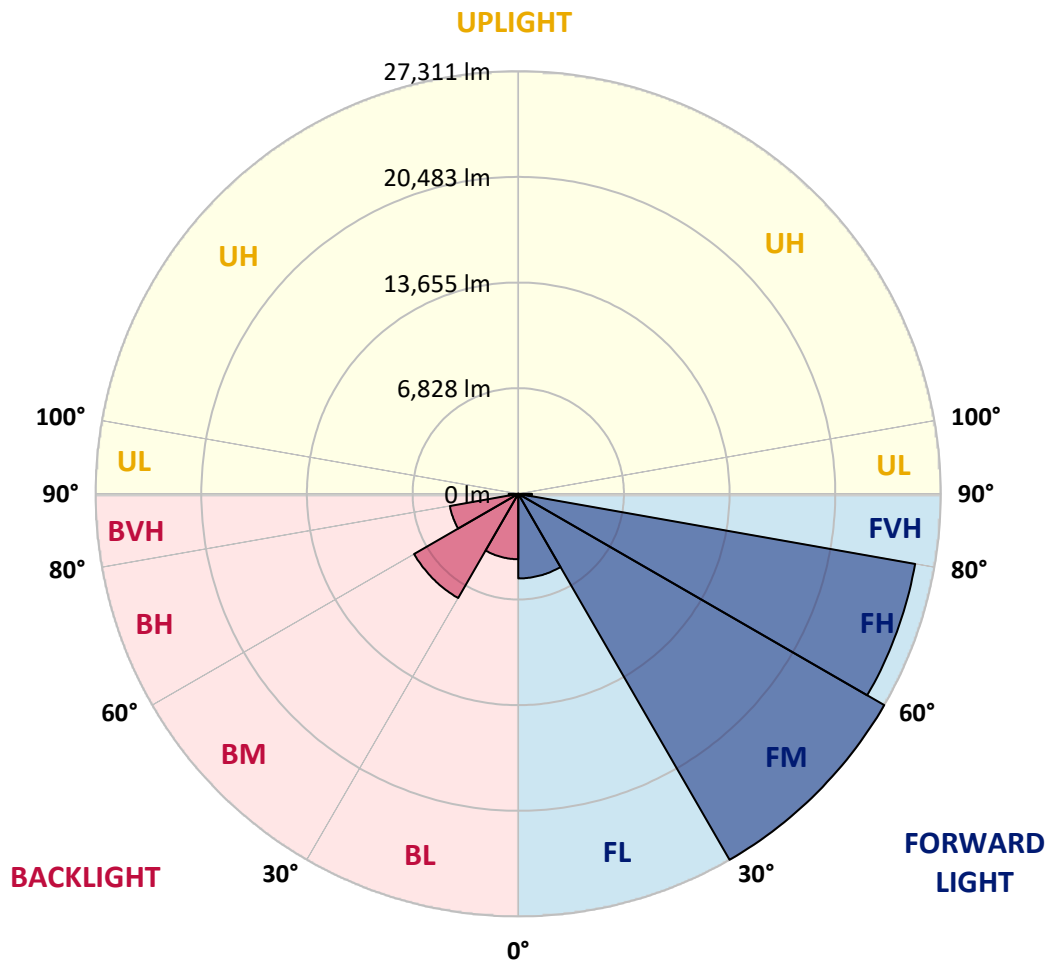


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5467.0	7.1			
FM (30°-60°)	27310.9	35.6			
FH (60°-80°)	26044.5	33.9			G5
FVH (80°-90°)	886.8	1.2			G5
BL (0°-30°)	4227.5	5.5	B4/5000		
BM (30°-60°)	7774.7	10.1	B4/8500		
BH (60°-80°)	4486.0	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°	10042.5	10042.5	10042.5	10042.5	10042.5	10042.5	10042.5	10042.5	10042.5	10042.5	10042.5
2.5°	10106.0	10116.6	10108.7	10129.9	10106.0	10121.9	10108.7	10108.7	10100.8	10076.9	10050.5
5°	10264.8	10286.0	10272.8	10293.9	10264.8	10270.1	10246.3	10246.3	10222.5	10172.2	10119.3
7.5°	10513.6	10537.4	10526.8	10548.0	10508.3	10508.3	10476.5	10473.9	10426.2	10344.2	10283.3
10°	10809.9	10841.7	10831.1	10862.9	10831.1	10841.7	10809.9	10809.9	10746.4	10630.0	10553.3
12.5°	11241.3	11281.0	11251.9	11249.2	11236.0	11257.2	11230.7	11225.4	11167.2	11008.4	10902.6
15°	11818.2	11860.5	11799.6	11794.4	11720.3	11712.3	11712.3	11704.4	11667.3	11476.8	11302.2
17.5°	12482.4	12495.6	12442.7	12358.0	12262.7	12201.9	12193.9	12215.1	12215.1	11992.8	11715.0
20°	13133.4	13157.2	13114.8	13019.6	12897.8	12807.9	12744.4	12786.7	12784.1	12519.4	12125.1
22.5°	13842.6	13898.1	13834.6	13712.9	13570.0	13469.4	13358.3	13395.3	13398.0	13072.5	12527.4
25°	14760.8	14710.5	14670.8	14498.8	14295.1	14191.9	14088.7	14125.7	14115.1	13667.9	12942.8
27.5°	15573.2	15583.8	15530.9	15348.3	15112.8	14885.2	14879.9	14903.7	14864.0	14287.1	13334.5
30°	16517.9	16523.2	16449.1	16285.0	16028.4	15734.6	15665.8	15705.5	15620.8	14874.6	13747.3
32.5°	17457.3	17483.8	17401.8	17203.3	16996.9	16639.6	16502.0	16528.5	16316.8	15475.3	14173.3
35°	18280.3	18317.4	18290.9	18158.6	17933.7	17626.7	17462.6	17446.8	17184.8	16211.0	14737.0
37.5°	19119.2	19153.6	19124.5	19013.3	18923.4	18597.9	18510.5	18510.5	18055.4	16962.5	15454.1
40°	19981.9	20034.8	20000.4	19846.9	19770.2	19622.0	19412.9	19362.6	18870.4	17864.9	16623.8
42.5°	20783.7	20852.5	20990.1	20900.1	20744.0	20765.2	20344.4	20317.9	19958.1	19198.6	18092.4
45°	21921.6	22022.1	22255.0	22186.2	22154.4	22038.0	21537.9	21514.0	21376.4	20992.7	19915.7
47.5°	23162.7	23300.3	23721.0	23734.3	24075.6	23856.0	23175.9	23093.9	23125.6	23141.5	22141.2
50°	24305.8	24456.7	25147.4	25472.8	26277.3	26324.9	25237.3	25163.2	25287.6	25652.8	24734.5
52.5°	25218.8	25409.3	26272.0	27277.6	28656.3	29047.9	27775.1	27719.5	27812.1	28441.9	27666.6
55°	25888.3	26094.7	27034.1	28865.3	31067.0	31757.7	30696.6	30643.6	30701.8	31503.7	30855.3
57.5°	26044.4	26094.7	27457.5	29934.4	33102.0	34761.2	34271.6	34165.8	33880.0	34578.6	34374.8
60°	25311.4	25512.5	27108.2	30310.2	34676.5	37722.4	38008.2	37875.8	37074.0	37645.6	37481.5
62.5°	23824.2	24184.1	25803.6	29738.6	35293.1	40141.0	41673.2	41514.4	40133.1	40503.6	39715.0
65°	21395.0	21548.5	23250.0	27767.1	34509.8	41689.1	44941.3	44862.0	43123.4	42543.8	40127.8
67.5°	17049.8	17338.3	18783.1	23646.9	31305.2	41506.5	47468.5	47460.6	45076.3	43300.7	38664.4
69°	13469.4	13768.5	15144.5	19479.1	27701.0	39836.7	47891.9	47984.5	45626.7	42840.2	36573.9
70°	10738.5	11085.2	12029.9	16406.8	24501.7	37635.0	47540.0	47706.7	45520.9	42080.7	34644.8
72.5°	4570.1	4850.6	5522.7	8457.4	14932.8	28103.2	43467.4	44097.2	43067.8	38513.6	28632.5
75°	1995.3	2082.6	2386.9	3448.1	6628.9	15295.4	34052.0	35216.4	36825.3	32554.2	21328.8
77.5°	1460.7	1497.8	1664.5	2024.4	2974.4	5776.8	21897.8	22575.2	26557.8	23689.3	13083.1
80°	1130.0	1156.4	1286.1	1487.2	1942.4	2336.6	9987.0	10569.1	14932.8	12167.5	5448.6
82.5°	899.7	918.3	1008.2	1095.5	1341.7	1415.7	3315.8	3678.3	5512.1	3360.7	1442.2
85°	836.2	857.4	889.1	799.2	860.0	830.9	1434.3	1500.4	1664.5	1320.5	603.3
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°	10042.5	10042.5	10042.5	10042.5	10042.5	10042.5	10042.5	10042.5	10042.5	10042.5	10042.5
2.5°	10066.4	10058.4	10071.6	10039.9	10079.6	10076.9	10063.7	10069.0	10095.5	10092.8	10095.5
5°	10127.2	10121.9	10137.8	10114.0	10161.6	10177.5	10180.1	10204.0	10233.1	10241.0	10241.0
7.5°	10280.7	10280.7	10288.6	10256.9	10288.6	10286.0	10272.8	10296.6	10325.7	10328.3	10325.7
10°	10545.3	10548.0	10534.7	10452.7	10426.2	10354.8	10288.6	10291.3	10328.3	10357.4	10365.4
12.5°	10878.8	10868.2	10809.9	10659.1	10548.0	10402.4	10333.6	10331.0	10368.0	10391.8	10399.8
15°	11259.8	11230.7	11079.9	10833.8	10637.9	10495.0	10383.9	10357.4	10336.3	10309.8	10312.5
17.5°	11619.7	11553.5	11302.2	10960.8	10754.4	10563.8	10349.5	10177.5	10058.4	9989.6	9968.4
20°	11984.9	11855.2	11492.7	11079.9	10817.9	10471.2	10058.4	9709.1	9492.1	9391.6	9373.0
22.5°	12318.3	12109.3	11670.0	11204.2	10767.6	10159.0	9510.6	9002.6	8700.9	8565.9	8576.5
25°	12643.8	12352.7	11855.2	11291.6	10513.6	9608.5	8748.5	8124.0	7774.7	7623.9	7618.6
27.5°	12929.6	12598.8	12056.3	11220.1	10039.9	8825.3	7846.1	7237.5	6946.4	6816.8	6795.6
30°	13257.7	12908.4	12323.6	10947.6	9346.6	7920.2	6964.9	6536.2	6329.8	6200.2	6176.4
32.5°	13657.3	13329.2	12543.2	10452.7	8460.1	6975.5	6276.9	5977.9	5790.0	5644.5	5618.0
35°	14239.5	13884.9	12598.8	9743.5	7486.3	6229.3	5771.5	5464.5	5210.5	5022.6	5004.1
37.5°	14969.9	14580.9	12471.8	8825.3	6541.5	5745.0	5350.7	4972.3	4641.5	4376.9	4334.6
40°	16023.1	15435.6	12119.8	7766.8	5845.6	5371.9	4940.6	4509.2	4099.0	3789.4	3728.6
42.5°	17288.0	16438.5	11580.0	6713.5	5334.8	4993.5	4533.0	3998.5	3606.8	3387.2	3355.5
45°	18896.9	17481.2	10831.1	5792.7	4832.1	4615.1	4093.8	3601.6	3358.1	3196.7	3170.2
47.5°	20733.4	18650.8	10045.2	5043.8	4406.0	4260.5	3741.8	3424.3	3231.1	3104.1	3080.2
50°	22990.7	19971.3	9211.6	4429.8	3977.3	3834.4	3575.1	3326.3	3172.9	3074.9	3051.1
52.5°	25536.4	21461.1	8610.9	3945.6	3622.7	3519.5	3487.8	3273.4	3149.0	3074.9	3051.1
55°	28277.9	22977.4	7962.6	3538.0	3315.8	3344.9	3429.5	3278.7	3194.0	3104.1	3069.7
57.5°	31022.0	24544.0	7240.2	3194.0	3072.3	3215.2	3389.9	3289.3	3217.8	3130.5	3098.8
60°	33192.0	25536.4	6120.8	2905.6	2879.1	3072.3	3294.6	3209.9	3117.3	3119.9	3114.6
62.5°	34205.5	25483.4	4885.0	2648.9	2685.9	2879.1	3141.1	3085.5	3008.8	3112.0	3119.9
65°	33636.5	24213.2	3802.7	2416.0	2479.5	2678.0	2982.3	3024.7	3051.1	3249.6	3276.1
67.5°	31249.6	21741.6	2945.3	2212.3	2291.7	2540.4	2998.2	3294.6	3329.0	3538.0	3535.4
69°	28780.7	19423.5	2558.9	2106.4	2199.0	2574.8	3204.6	3466.6	3336.9	3559.2	3527.5
70°	26711.3	17589.7	2352.5	2035.0	2156.7	2635.7	3342.2	3463.9	3297.2	3487.8	3434.8
72.5°	20572.0	12654.4	1995.3	1902.7	2013.8	2521.9	3381.9	3387.2	3204.6	3241.7	3151.7
75°	14109.8	7997.0	1741.2	1722.7	1796.8	2273.1	3254.9	3236.4	2963.8	2910.9	2836.8
77.5°	7780.0	4062.0	1479.3	1550.7	1601.0	2013.8	2958.5	2932.0	2707.1	2596.0	2569.5
80°	3000.9	1778.3	1249.0	1378.7	1410.5	1743.9	2593.3	2569.5	2381.6	2238.7	2199.0
82.5°	1132.6	931.5	1032.0	1193.5	1182.9	1439.6	2196.4	2183.2	2000.6	1791.5	1728.0
85°	524.0	558.4	817.7	984.4	907.7	1066.4	1757.1	1780.9	1558.6	1309.9	1309.9
87.5°	222.3	312.3	579.5	743.6	611.3	719.8	1288.7	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)