

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: P318101

Luminaire Tested: **GAN-SA7D-740-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53857 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

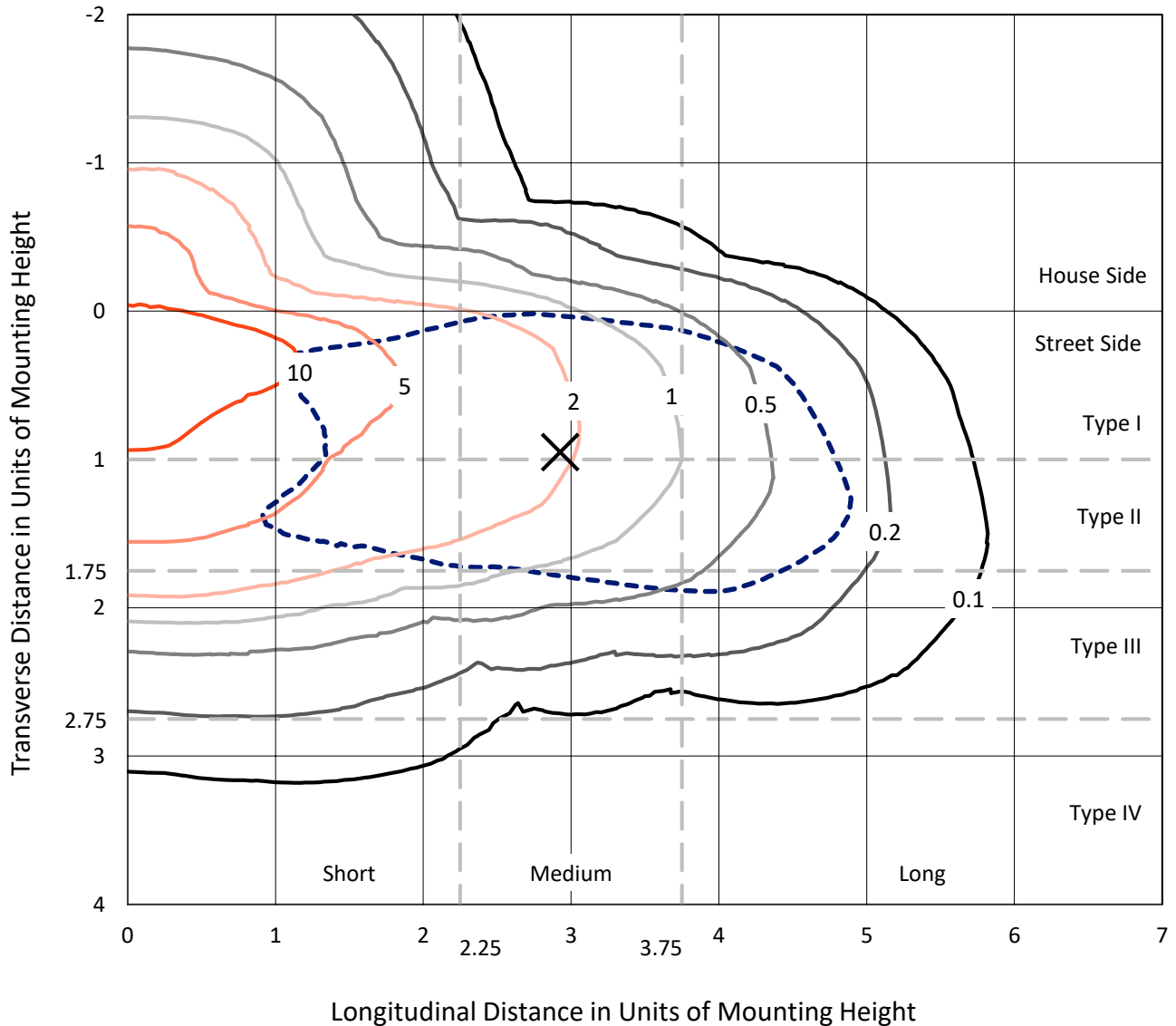
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

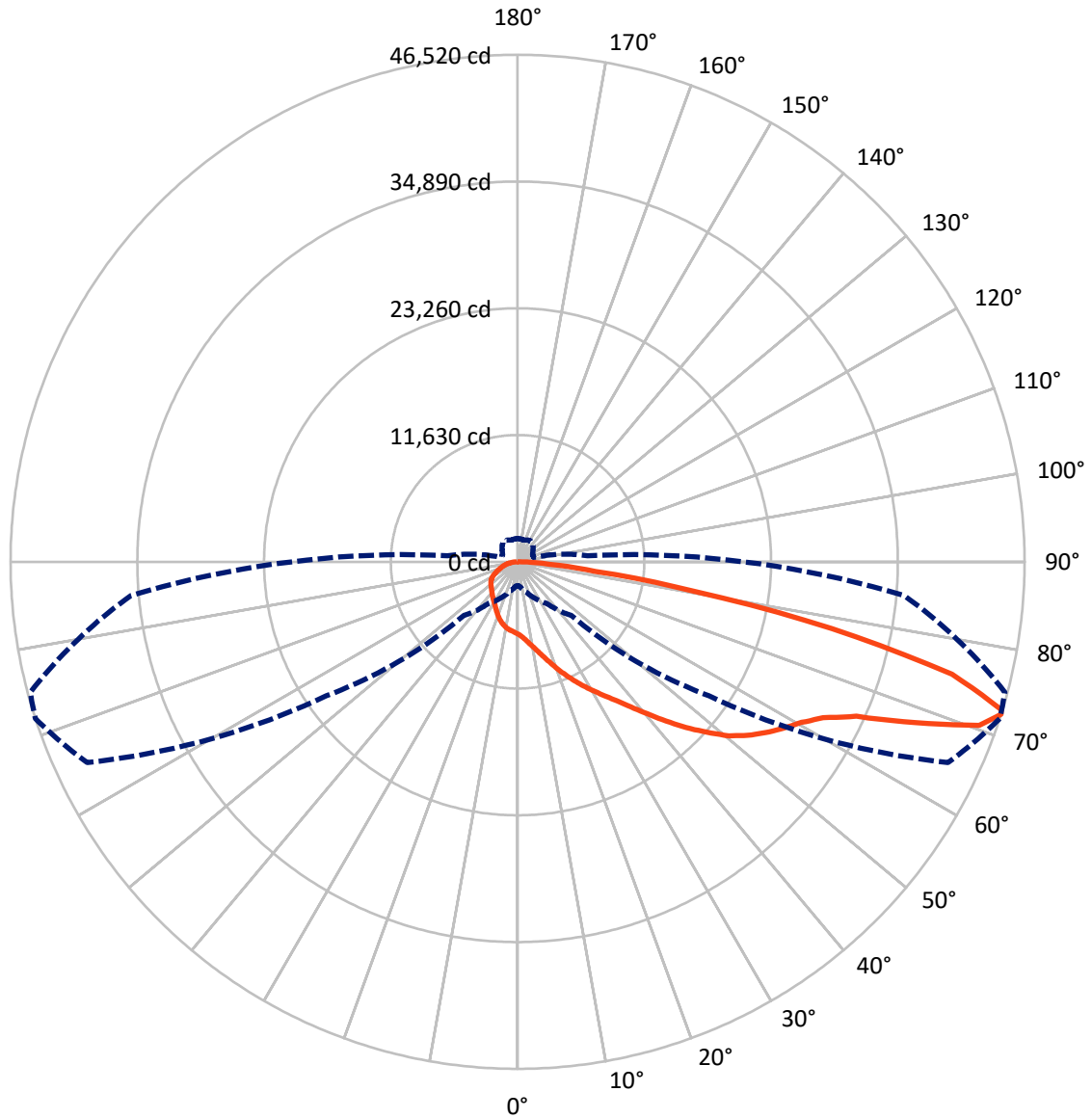
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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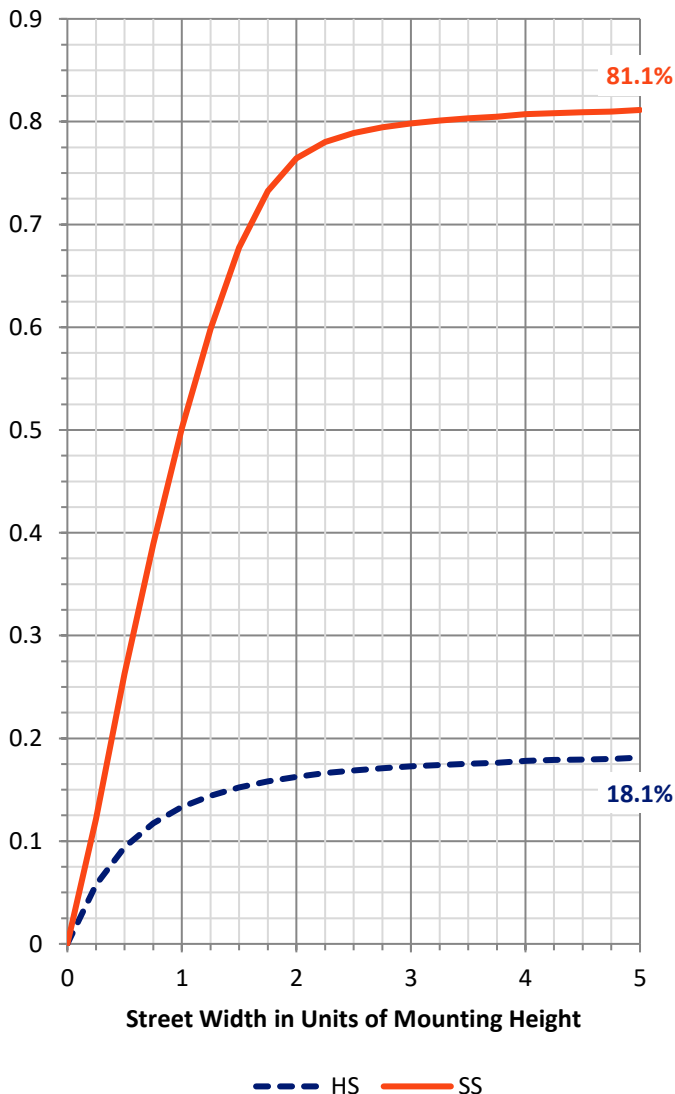
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9990.8	0.0	9990.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	43866.2	0.0	43866.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	53857.0	0.0	53857.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.9	1.2
10°-20°	2145.5	4.0
20°-30°	3759.6	7.0
30°-40°	5574.3	10.4
40°-50°	8152.8	15.1
50°-60°	11218.2	20.8
60°-70°	12489.2	23.2
70°-80°	8462.7	15.7
80°-90°	1390.9	2.6
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°	53857.0	100.0
0°-180°	53857.0	100.0

Coefficient of Utilization

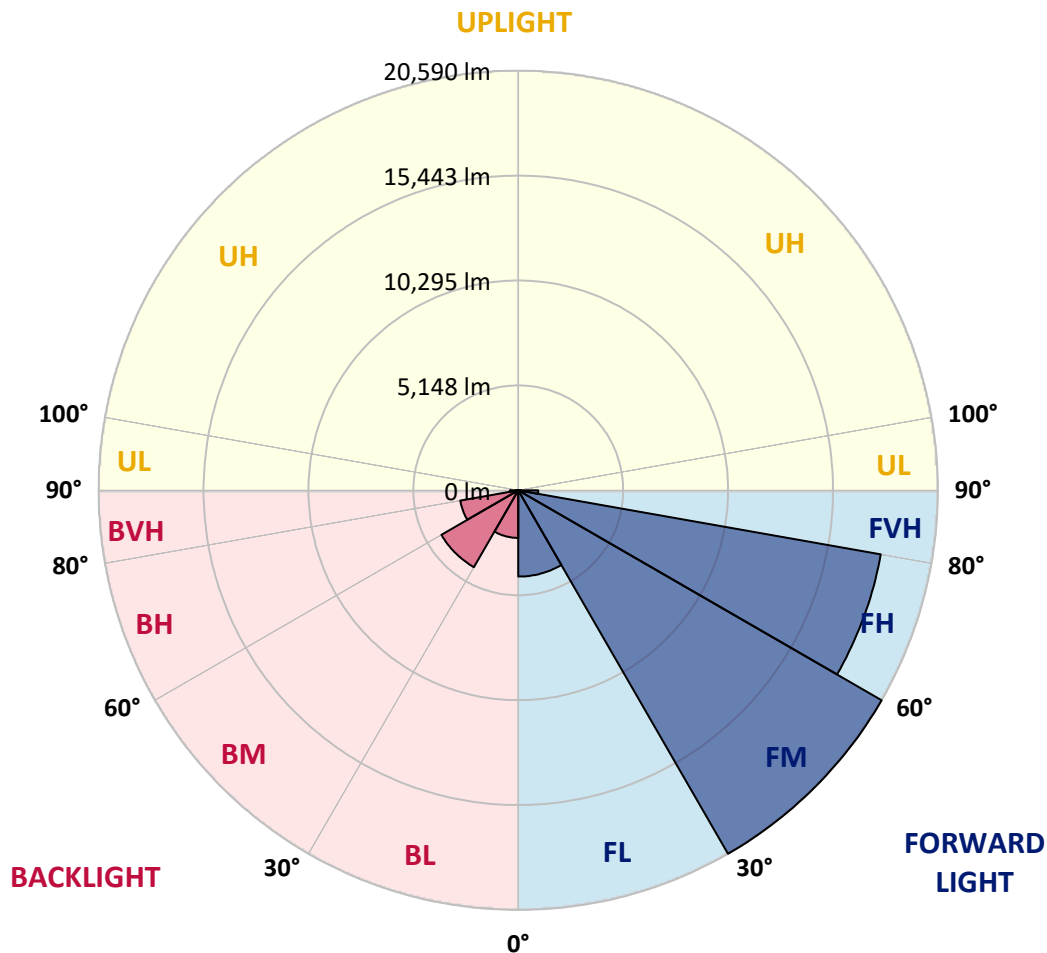


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4233.5	7.9			
FM (30°-60°)	20590.2	38.2			
FH (60°-80°)	18061.4	33.5			G5
FVH (80°-90°)	981.1	1.8			G5
BL (0°-30°)	2335.5	4.3	B3/2500		
BM (30°-60°)	4355.1	8.1	B3/5000		
BH (60°-80°)	2890.5	5.4	B4/5000		G4/5000
BVH (80°-90°)	409.8	0.8			G3/500
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6625.8	6625.8	6625.8	6625.8	6625.8	6625.8	6625.8	6625.8	6625.8	6625.8	6625.8
2.5°	7319.4	7308.2	7269.3	7269.3	7195.1	7132.1	7013.4	6933.6	6839.1	6805.7	6694.4
5°	8027.8	8031.5	7983.2	7949.9	7840.5	7706.9	7504.8	7321.2	7137.6	7063.5	6835.4
7.5°	8623.0	8615.6	8602.6	8574.8	8472.8	8335.6	8063.0	7790.4	7519.6	7408.4	7015.2
10°	9005.0	9021.7	9032.8	9045.8	9003.2	8904.9	8647.1	8315.2	7961.0	7808.9	7230.4
12.5°	9197.9	9227.6	9279.5	9368.5	9439.0	9427.8	9240.5	8888.2	8467.2	8276.2	7499.2
15°	9311.0	9349.9	9431.5	9591.0	9789.4	9902.6	9852.5	9533.5	9064.4	8828.9	7827.5
17.5°	9381.5	9413.0	9539.1	9752.4	10047.2	10347.6	10479.3	10212.2	9739.4	9470.5	8203.9
20°	9429.7	9453.8	9611.4	9861.8	10243.8	10722.2	11089.4	11022.6	10483.0	10134.4	8597.1
22.5°	9537.2	9557.6	9707.8	9960.0	10382.9	11000.4	11677.2	11777.4	11267.4	10872.4	9018.0
25°	9837.7	9837.7	9963.8	10139.9	10536.8	11241.4	12174.2	12617.4	12068.5	11608.6	9407.4
27.5°	10410.7	10405.1	10451.5	10512.7	10813.1	11486.2	12617.4	13359.2	12899.3	12396.7	9785.7
30°	11089.4	11126.5	11132.0	11102.4	11243.3	11792.2	13027.2	14141.8	13735.6	13194.1	10173.3
32.5°	11962.8	11986.9	11959.1	11860.8	11840.4	12226.1	13429.7	14961.4	14640.6	14026.8	10527.5
35°	13071.8	13025.4	12938.2	12738.0	12547.0	12806.6	13889.6	15781.1	15656.8	15033.7	11015.2
37.5°	14260.4	14262.3	14154.7	13700.4	13437.1	13548.3	14523.8	16710.1	16886.3	16231.7	11640.1
40°	15213.6	15263.7	15330.4	14733.3	14392.1	14546.0	15330.4	17787.5	18340.1	17652.2	12454.2
42.5°	15879.3	15936.8	16126.0	15751.4	15397.2	15682.8	16279.9	18937.3	19972.0	19291.5	13407.4
45°	16584.0	16615.5	16749.1	16587.7	16361.5	17005.0	17349.9	20127.8	21698.5	21038.3	14473.7
47.5°	17325.8	17359.2	17496.4	17388.8	17270.1	18240.0	18466.2	21249.7	23352.6	22957.6	15612.3
50°	18241.9	18264.1	18393.9	18199.2	18236.3	19170.9	19463.9	22278.9	25086.5	24682.2	16754.6
52.5°	19491.7	19497.3	19677.2	19501.0	19326.7	19853.3	20322.5	23248.8	26445.8	26254.8	17896.9
55°	20470.9	20530.2	21119.9	21082.8	20982.7	20472.7	21040.2	24172.3	27658.6	27749.4	19109.7
57.5°	19845.9	20077.7	21272.0	22113.9	22933.5	22013.7	22010.0	25212.6	28786.0	29216.3	20443.0
60°	17381.4	17696.7	19456.5	21323.9	23888.5	24695.2	24023.9	26482.9	29924.7	30670.1	22113.9
62.5°	12413.4	12932.7	15317.4	18299.3	22579.3	26471.7	28122.2	28498.6	31473.1	32353.9	24285.4
65°	6275.3	6668.5	8667.5	12259.5	18039.7	25310.9	32576.5	32912.1	34163.8	34946.4	27628.9
67.5°	3812.7	3961.0	4936.4	6818.7	11059.7	19716.1	34030.3	40268.6	39371.0	39786.4	32396.6
70°	2809.4	2918.8	3527.1	4528.5	6360.6	11569.7	29568.6	45518.4	44928.7	44882.3	35920.0
72°	2188.2	2267.9	2805.7	3658.8	4650.9	6941.1	21431.4	43580.5	46519.8	46286.1	35597.3
72.5°	2075.1	2145.6	2635.1	3443.6	4395.0	6292.0	19269.2	42273.2	46404.8	46299.1	35180.1
75°	1633.7	1683.8	1950.8	2662.9	3439.9	3569.7	10559.0	32760.1	41166.1	42877.7	31641.8
77.5°	1351.9	1359.3	1500.2	1937.9	2681.5	2523.9	5186.8	22729.5	29477.7	31360.0	22414.3
80°	1101.5	1110.8	1177.6	1359.3	2028.7	1867.4	2462.7	13069.9	16504.3	16524.7	10659.2
82.5°	877.1	879.0	953.2	994.0	1457.6	1335.2	1411.2	6136.3	7211.8	6937.4	3831.2
85°	617.5	604.5	930.9	815.9	953.2	856.7	778.9	2429.3	2981.9	2852.1	1199.8
87.5°	205.8	213.3	413.5	528.5	556.3	485.9	346.8	930.9	1125.6	1116.4	380.2
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°	6625.8	6625.8	6625.8	6625.8	6625.8	6625.8	6625.8	6625.8	6625.8	6625.8	6625.8
2.5°	6659.2	6599.9	6512.7	6416.3	6340.2	6262.4	6204.9	6175.2	6141.8	6114.0	6147.4
5°	6729.7	6618.4	6433.0	6251.2	6117.7	5999.0	5913.7	5869.2	5828.4	5800.6	5804.3
7.5°	6844.6	6664.8	6353.2	6088.0	5902.6	5774.6	5687.5	5657.8	5631.9	5624.4	5633.7
10°	6967.0	6701.8	6247.5	5895.2	5683.8	5578.1	5539.1	5559.5	5578.1	5594.8	5613.3
12.5°	7106.1	6735.2	6093.6	5668.9	5489.1	5448.3	5487.2	5576.2	5641.1	5680.1	5704.2
15°	7287.8	6764.9	5915.6	5442.7	5322.2	5368.5	5500.2	5654.1	5767.2	5839.5	5850.7
17.5°	7454.7	6763.0	5687.5	5214.6	5186.8	5322.2	5520.6	5737.6	5889.6	5991.6	6012.0
20°	7627.2	6713.0	5422.3	4992.1	5049.6	5272.1	5529.9	5791.3	5974.9	6093.6	6121.4
22.5°	7788.5	6625.8	5131.2	4789.9	4934.6	5205.3	5494.6	5759.8	5943.4	6039.8	6069.5
25°	7897.9	6473.8	4836.3	4619.3	4832.6	5123.7	5379.7	5592.9	5730.1	5778.3	5785.8
27.5°	7953.6	6275.3	4558.1	4471.0	4726.9	4990.2	5166.4	5272.1	5311.0	5307.3	5299.9
30°	7961.0	6013.9	4318.9	4350.5	4604.5	4793.7	4877.1	4856.7	4806.6	4721.3	4728.8
32.5°	7936.9	5719.0	4118.7	4235.5	4448.7	4554.4	4558.1	4459.9	4326.3	4191.0	4153.9
35°	7944.3	5429.7	3942.5	4105.7	4259.6	4305.9	4263.3	4118.7	3936.9	3762.6	3725.5
37.5°	8025.9	5177.5	3790.4	3955.5	4050.0	4061.2	4000.0	3847.9	3714.4	3543.8	3528.9
40°	8220.6	4997.6	3645.8	3786.7	3840.5	3846.1	3758.9	3651.3	3662.5	3571.6	3569.7
42.5°	8571.1	4919.8	3517.8	3610.5	3643.9	3655.0	3588.3	3519.7	3616.1	3556.8	3536.4
45°	9023.6	4938.3	3410.3	3438.1	3499.3	3551.2	3510.4	3427.0	3464.0	3206.3	3121.0
47.5°	9546.5	5057.0	3325.0	3289.7	3395.4	3493.7	3430.7	3304.6	3172.9	2917.0	2868.8
50°	10158.5	5240.6	3247.1	3143.2	3282.3	3415.8	3352.8	3172.9	2974.5	2850.2	2833.5
52.5°	10796.4	5465.0	3169.2	2981.9	3139.5	3356.5	3325.0	3143.2	2898.4	2776.1	2753.8
55°	11519.6	5691.2	3070.9	2794.6	2985.6	3328.7	3312.0	3035.7	2841.0	2772.3	2755.7
57.5°	12419.0	5949.0	2941.1	2599.9	2841.0	3228.5	3176.6	2970.8	2781.6	2729.7	2724.1
60°	13591.0	6329.1	2753.8	2392.2	2664.8	3074.6	3063.5	2876.2	2687.0	2650.0	2642.5
62.5°	15349.0	6957.8	2496.0	2184.5	2468.2	2813.1	2915.1	2748.2	2586.9	2585.1	2588.8
65°	18075.0	7903.5	2216.0	2002.8	2269.8	2592.5	2742.7	2616.6	2484.9	2522.0	2527.6
67.5°	21234.9	8687.9	1941.6	1824.7	2067.7	2382.9	2586.9	2484.9	2349.5	2446.0	2447.8
70°	22286.3	7987.0	1700.5	1648.6	1858.1	2180.8	2418.2	2340.3	2203.0	2299.5	2290.2
72°	20739.7	6447.8	1544.7	1515.1	1700.5	2013.9	2267.9	2204.9	2069.5	2134.4	2110.3
72.5°	20252.0	6147.4	1505.8	1481.7	1657.8	1971.2	2229.0	2171.5	2036.1	2091.8	2069.5
75°	18065.7	5338.9	1294.4	1299.9	1446.4	1763.5	2010.2	1991.6	1852.6	1858.1	1850.7
77.5°	13103.3	3914.7	1090.4	1127.5	1231.3	1550.3	1789.5	1778.4	1626.3	1598.5	1592.9
80°	6080.6	1997.2	888.3	905.0	1012.5	1296.2	1526.2	1511.3	1389.0	1353.7	1333.3
82.5°	2082.5	949.5	667.6	678.7	784.4	1044.0	1324.1	1314.8	1212.8	1144.2	1101.5
85°	743.6	472.9	467.3	456.2	560.0	821.5	1153.4	1103.4	953.2	812.2	808.5
87.5°	241.1	202.1	241.1	239.2	326.4	556.3	838.2	713.9	691.7	574.9	563.7
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)