

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: McGRAW-EDISON

Report Number: P650973

Luminaire Tested: **GALN-SA6C-840-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-840-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20681.9 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

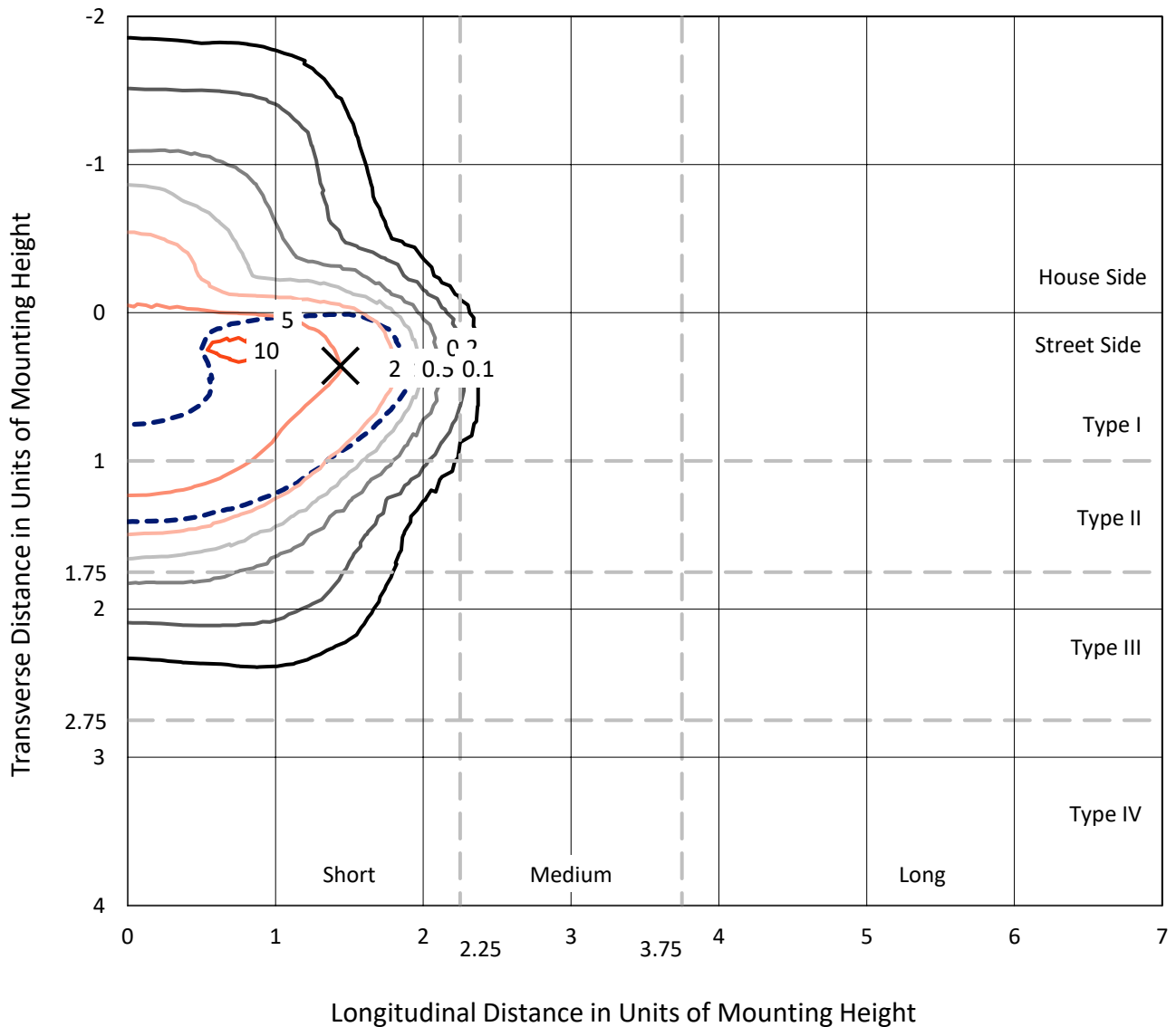
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

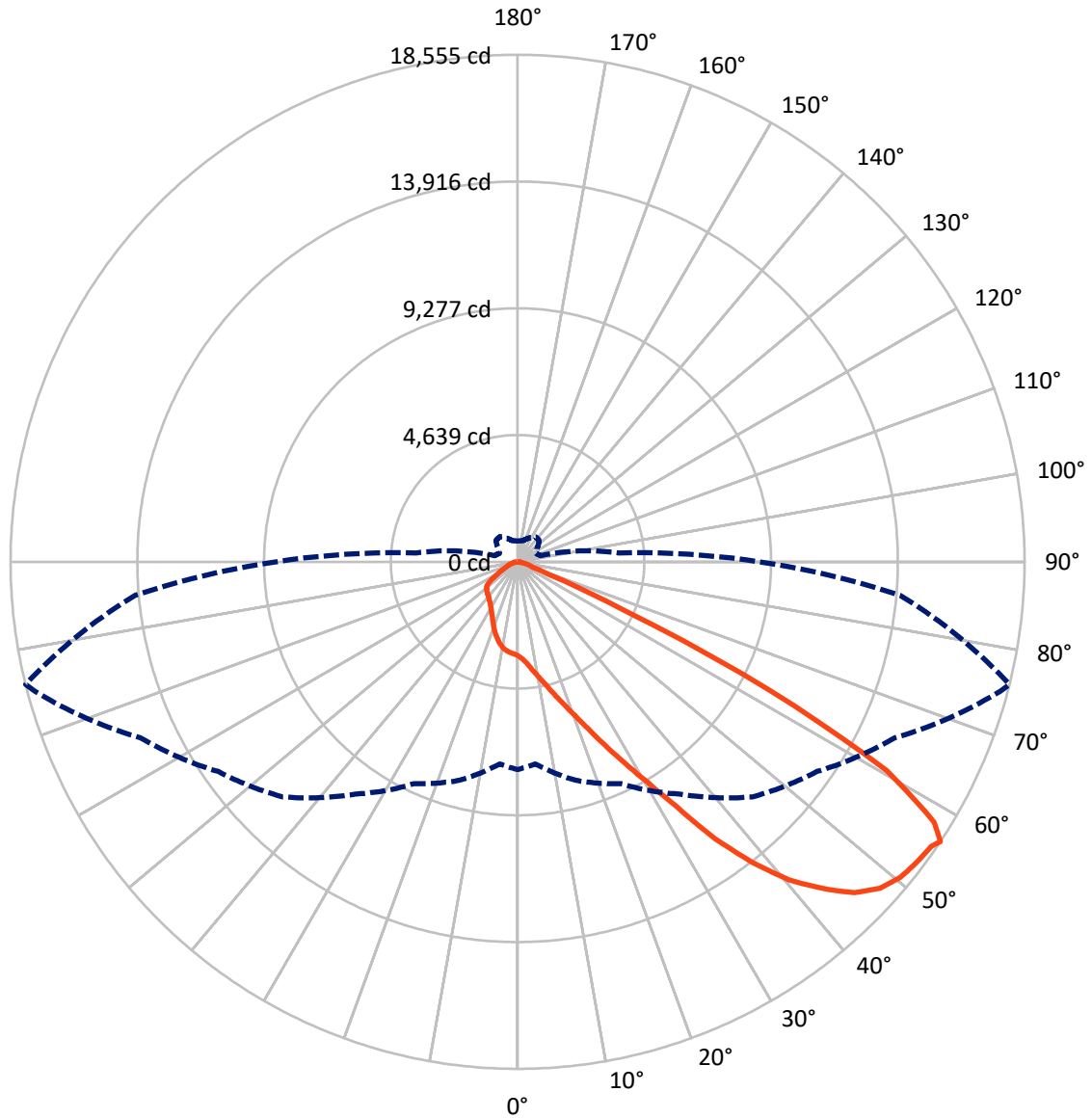
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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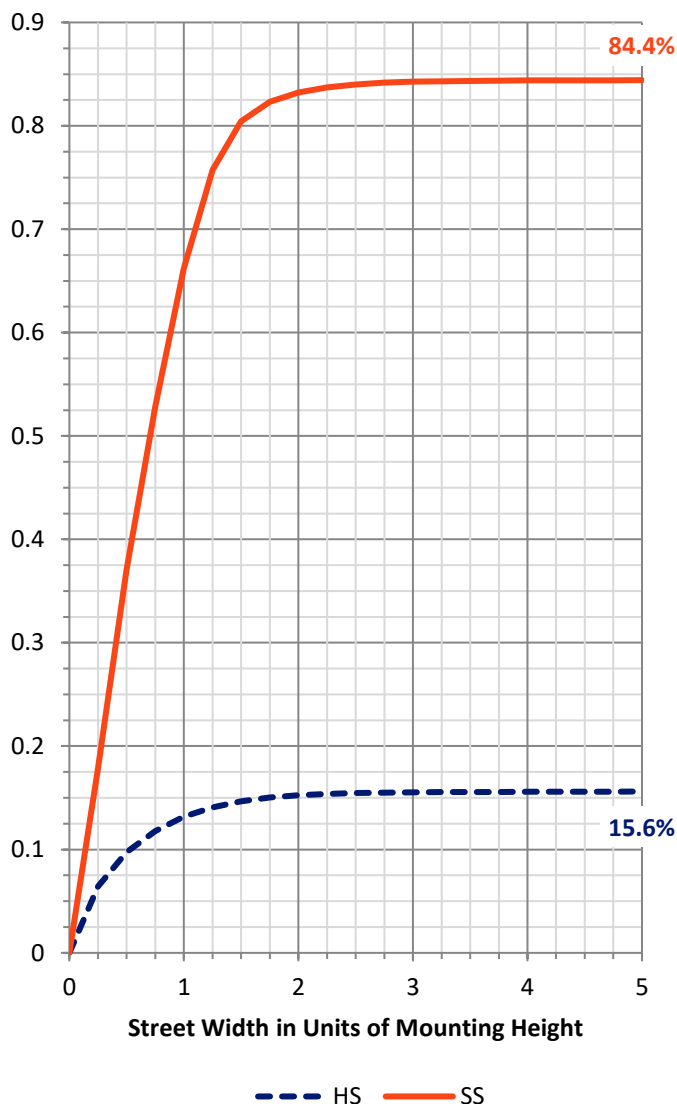
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3249.0	0.0	3249.0
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	17432.9	0.0	17432.9
	% Fixture	84.3	0.0	84.3
Total	Lumens	20681.9	0.0	20681.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.8	1.7
10°-20°	1114.1	5.4
20°-30°	2020.2	9.8
30°-40°	3483.9	16.8
40°-50°	5659.6	27.4
50°-60°	5965.5	28.8
60°-70°	1822.7	8.8
70°-80°	233.7	1.1
80°-90°	35.5	0.2
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°	20681.9	100.0
0°-180°	20681.9	100.0

Coefficient of Utilization



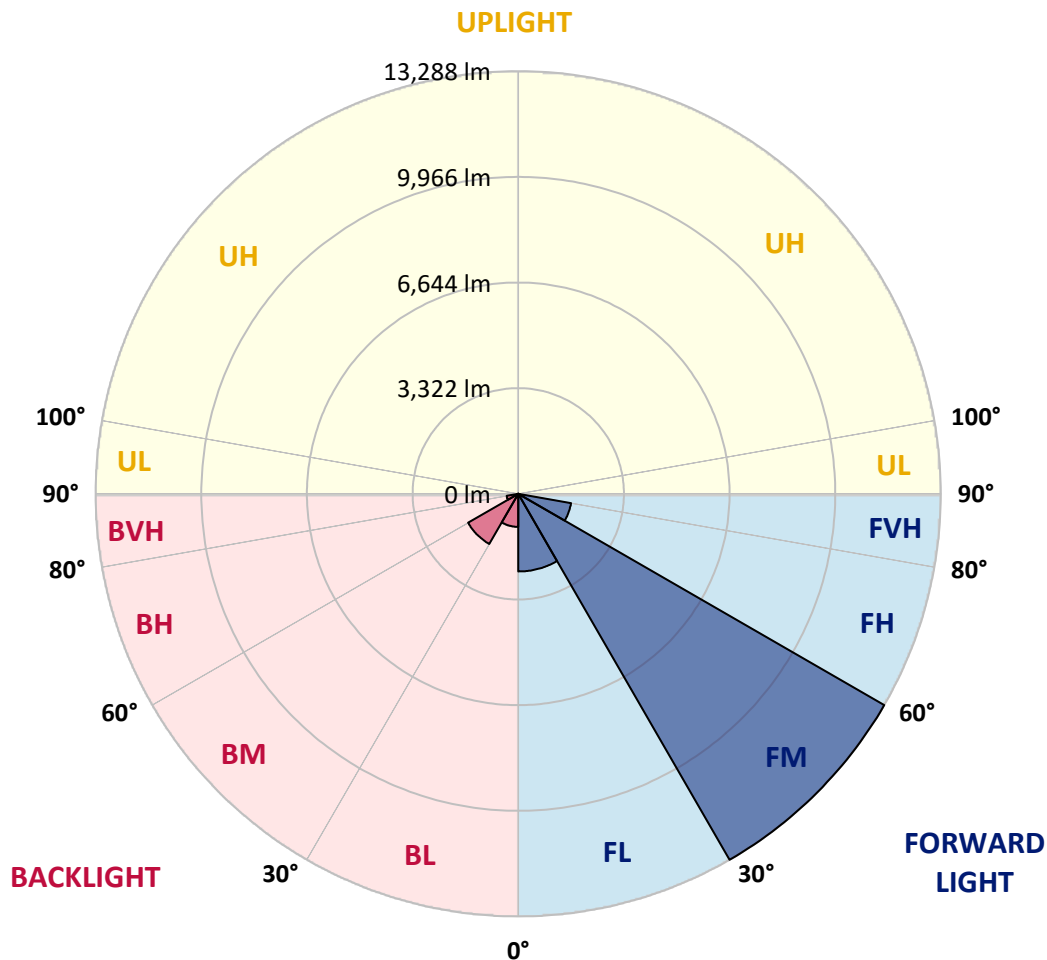
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2441.7	11.8			
FM (30°-60°)	13288.1	64.2			
FH (60°-80°)	1685.7	8.2			G1/1800
FVH (80°-90°)	17.4	0.1			G1/100
BL (0°-30°)	1039.4	5.0	B3/2500		
BM (30°-60°)	1820.9	8.8	B2/2500		
BH (60°-80°)	370.7	1.8	B1/500		G1/500
BVH (80°-90°)	18.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3442.5	3442.5	3442.5	3442.5	3442.5	3442.5	3442.5	3442.5	3442.5	3442.5	3442.5
2.5°	3964.8	3873.3	3877.1	3869.5	3858.1	3816.1	3690.3	3671.3	3587.4	3564.5	3488.3
5°	4441.3	4361.3	4407.0	4338.5	4273.6	4235.5	4029.7	3934.3	3800.9	3751.4	3644.6
7.5°	4738.7	4700.6	4685.4	4689.2	4628.2	4532.8	4441.3	4231.7	4052.5	4014.3	3789.5
10°	4883.6	4860.7	4883.6	4872.2	4898.8	4910.3	4750.1	4624.3	4361.3	4296.5	3945.7
12.5°	4917.9	4963.7	4982.7	5032.3	5097.0	5207.6	5196.2	5024.6	4673.9	4632.0	4185.9
15°	5001.8	5039.9	5020.9	5100.9	5222.9	5409.6	5508.8	5482.1	5104.7	5028.4	4464.2
17.5°	5078.0	5009.4	5074.2	5234.3	5356.3	5642.3	5882.4	5993.0	5573.6	5485.9	4719.7
20°	5181.0	5161.9	5150.5	5230.5	5447.8	5829.1	6305.6	6507.7	6099.7	6008.2	5085.6
22.5°	5493.6	5497.4	5489.7	5371.6	5527.9	5958.7	6675.4	7174.8	6728.8	6652.5	5501.1
25°	5905.2	5855.7	5817.6	5722.3	5703.2	6076.8	7049.0	7990.6	7483.6	7430.2	5951.0
27.5°	6339.9	6339.9	6225.5	6137.9	6015.8	6370.4	7392.1	8783.6	8394.8	8322.3	6343.7
30°	6812.6	6839.3	6824.0	6637.3	6561.0	6690.7	7742.8	9797.6	9439.3	9347.8	6991.8
32.5°	7510.3	7453.1	7517.9	7361.6	7136.6	7251.0	8295.6	10705.0	10796.5	10666.9	7842.0
35°	8432.9	8398.6	8356.6	8101.2	7834.3	7925.8	9077.2	11822.0	12500.6	12435.8	8699.7
37.5°	9260.2	9241.1	9206.8	9031.4	8722.6	8833.2	9965.4	12984.8	14162.8	13949.3	9912.0
40°	10129.3	10232.3	10121.7	9965.4	9683.3	9927.3	11010.0	13674.8	15561.9	15302.7	10838.5
42.5°	11307.3	11227.3	11276.9	10990.9	10838.5	11105.3	12058.3	14364.9	16648.4	16339.6	11822.0
45°	12561.6	12565.4	12432.0	12340.5	11944.1	12233.8	12702.6	14746.1	17513.8	17273.6	12565.4
47.5°	13366.0	13362.2	13507.0	13652.0	13244.0	12958.1	13141.0	15108.2	17959.9	17849.3	12836.1
50°	13240.2	13278.3	13465.2	14006.5	14220.0	13835.0	13552.8	15001.5	18161.9	18150.5	13068.6
52.5°	11517.0	11642.8	11955.5	12736.9	13812.1	14288.6	13983.6	15199.7	18261.1	18280.1	13415.5
55°	8768.4	8837.0	9431.7	10381.0	11570.4	13202.1	13812.1	15356.1	18337.2	18371.6	13835.0
56°	7605.6	7422.6	8280.4	8955.1	10377.2	12161.3	13377.5	15234.0	18291.5	18554.6	14044.6
57.5°	5741.3	5619.4	6313.2	7155.7	8524.4	10407.6	12027.9	14658.4	17982.8	17978.9	13743.5
60°	3492.1	3370.1	3903.8	4399.4	5165.7	6408.5	8127.8	11673.3	15203.5	15523.8	11128.2
62.5°	2077.7	2154.0	2680.1	2981.3	3229.0	3358.6	4205.0	6938.4	10144.6	10373.3	6904.1
65°	1383.9	1410.5	1807.1	2302.7	2413.2	1921.4	1711.8	2809.7	4399.4	4258.4	2847.8
67.5°	854.0	914.9	1212.3	1730.8	1917.6	1403.0	812.0	1048.4	1212.3	1212.3	823.4
70°	518.5	549.0	808.2	1178.0	1315.2	903.5	590.9	590.9	583.3	571.9	491.8
72.5°	247.8	266.8	411.8	606.2	617.6	476.5	457.5	499.4	487.9	484.2	407.9
75°	106.7	114.4	144.9	190.7	217.3	202.1	278.3	358.4	369.8	358.4	293.5
77.5°	34.3	38.1	53.4	68.6	72.4	87.7	118.2	148.7	171.6	160.1	144.9
80°	3.8	7.7	15.2	34.3	53.4	68.6	87.7	99.2	110.6	110.6	102.9
82.5°	3.8	3.8	15.2	30.5	49.5	64.8	83.8	95.3	110.6	114.4	106.7
85°	0.0	3.8	11.4	26.7	42.0	42.0	38.1	38.1	26.7	26.7	26.7
87.5°	0.0	0.0	3.8	3.8	3.8	7.7	7.7	7.7	7.7	7.7	7.7
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°	3442.5	3442.5	3442.5	3442.5	3442.5	3442.5	3442.5	3442.5	3442.5	3442.5	3442.5
2.5°	3473.0	3465.4	3362.5	3297.6	3263.3	3194.7	3152.8	3122.3	3099.4	3072.8	3076.5
5°	3518.7	3492.1	3320.5	3202.4	3061.3	2985.0	2920.2	2866.9	2832.6	2824.9	2809.7
7.5°	3648.4	3507.3	3248.1	3034.6	2855.4	2779.2	2722.0	2687.7	2703.0	2668.7	2695.3
10°	3747.5	3537.8	3160.4	2851.6	2672.4	2615.3	2584.7	2611.5	2649.6	2634.3	2615.3
12.5°	3869.5	3568.4	3019.4	2676.2	2508.5	2466.6	2520.0	2569.5	2645.8	2676.2	2638.1
15°	4006.8	3602.7	2840.1	2474.2	2367.4	2401.7	2493.2	2580.9	2657.2	2695.3	2718.2
17.5°	4174.5	3591.2	2664.8	2314.1	2234.0	2333.1	2443.7	2523.8	2638.1	2695.3	2680.1
20°	4330.8	3553.1	2470.4	2154.0	2157.8	2249.3	2340.8	2470.4	2531.4	2607.6	2580.9
22.5°	4479.5	3484.4	2268.3	2043.4	2043.4	2184.5	2230.2	2314.1	2367.4	2405.6	2401.7
25°	4689.2	3354.8	2100.6	1936.7	1982.4	2073.9	2112.0	2138.7	2115.9	2146.3	2150.2
27.5°	4837.9	3221.5	1963.3	1841.4	1925.2	1993.8	1982.4	1967.2	1913.8	1871.8	1898.6
30°	4998.0	3065.1	1845.2	1776.5	1822.3	1883.3	1837.5	1791.8	1707.9	1639.3	1643.1
32.5°	5226.7	2992.7	1742.2	1700.3	1761.3	1769.0	1719.3	1650.7	1566.9	1502.0	1498.2
35°	5653.7	2946.9	1654.6	1650.7	1662.2	1666.0	1616.4	1532.6	1498.2	1444.8	1463.9
37.5°	6080.7	2924.1	1593.5	1578.3	1574.5	1578.3	1521.1	1441.1	1505.9	1502.0	1509.7
40°	6625.8	3027.0	1505.9	1486.8	1490.6	1490.6	1418.2	1395.3	1509.7	1521.1	1524.9
42.5°	7178.6	3156.6	1448.7	1387.6	1403.0	1403.0	1364.8	1338.1	1418.2	1341.9	1330.5
45°	7659.0	3347.2	1387.6	1288.6	1326.7	1345.8	1334.3	1288.6	1239.0	1109.4	1109.4
47.5°	7815.2	3515.0	1315.2	1193.3	1223.7	1307.6	1273.4	1178.0	1090.4	983.5	976.0
50°	8089.7	3698.0	1258.1	1082.7	1147.5	1250.5	1216.2	1120.8	1021.7	945.5	949.2
52.5°	8371.9	3907.6	1151.3	953.1	1033.2	1204.7	1204.7	1097.9	945.5	892.0	884.5
55°	8795.0	3900.0	960.7	781.5	922.6	1136.1	1155.1	983.5	846.3	804.4	804.4
56°	8856.1	3724.6	865.4	732.0	873.0	1117.0	1120.8	953.1	808.2	762.5	762.5
57.5°	8398.6	3362.5	758.7	670.9	812.0	1082.7	1086.5	926.4	777.7	712.9	705.3
60°	6461.9	2276.0	632.9	598.5	735.8	976.0	995.0	842.5	682.4	632.9	629.1
62.5°	3648.4	1261.9	556.6	541.4	632.9	831.1	888.3	735.8	579.4	552.8	560.4
65°	1666.0	693.8	468.9	438.4	510.8	640.5	716.7	606.2	476.5	446.1	446.1
67.5°	610.0	472.7	400.3	346.9	358.4	415.5	465.1	392.7	316.4	270.6	282.1
70°	434.6	396.4	350.7	301.2	278.3	270.6	266.8	221.1	156.3	122.0	129.6
72.5°	350.7	327.8	293.5	255.4	217.3	183.0	156.3	114.4	72.4	49.5	45.8
75°	251.6	240.2	213.5	183.0	152.5	129.6	106.7	72.4	38.1	19.1	19.1
77.5°	129.6	129.6	125.8	114.4	95.3	76.3	61.0	42.0	22.9	7.7	7.7
80°	99.2	106.7	110.6	99.2	87.7	68.6	49.5	30.5	15.2	3.8	3.8
82.5°	95.3	110.6	118.2	102.9	87.7	64.8	49.5	30.5	15.2	3.8	3.8
85°	22.9	22.9	34.3	38.1	49.5	53.4	42.0	26.7	11.4	3.8	3.8
87.5°	7.7	7.7	7.7	7.7	7.7	7.7	3.8	3.8	3.8	3.8	0.0
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)