

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: P193388

Luminaire Tested: **GLEON-AF-10-LED-E1-5NQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-5NQ-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40067 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 419
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: 25 FT

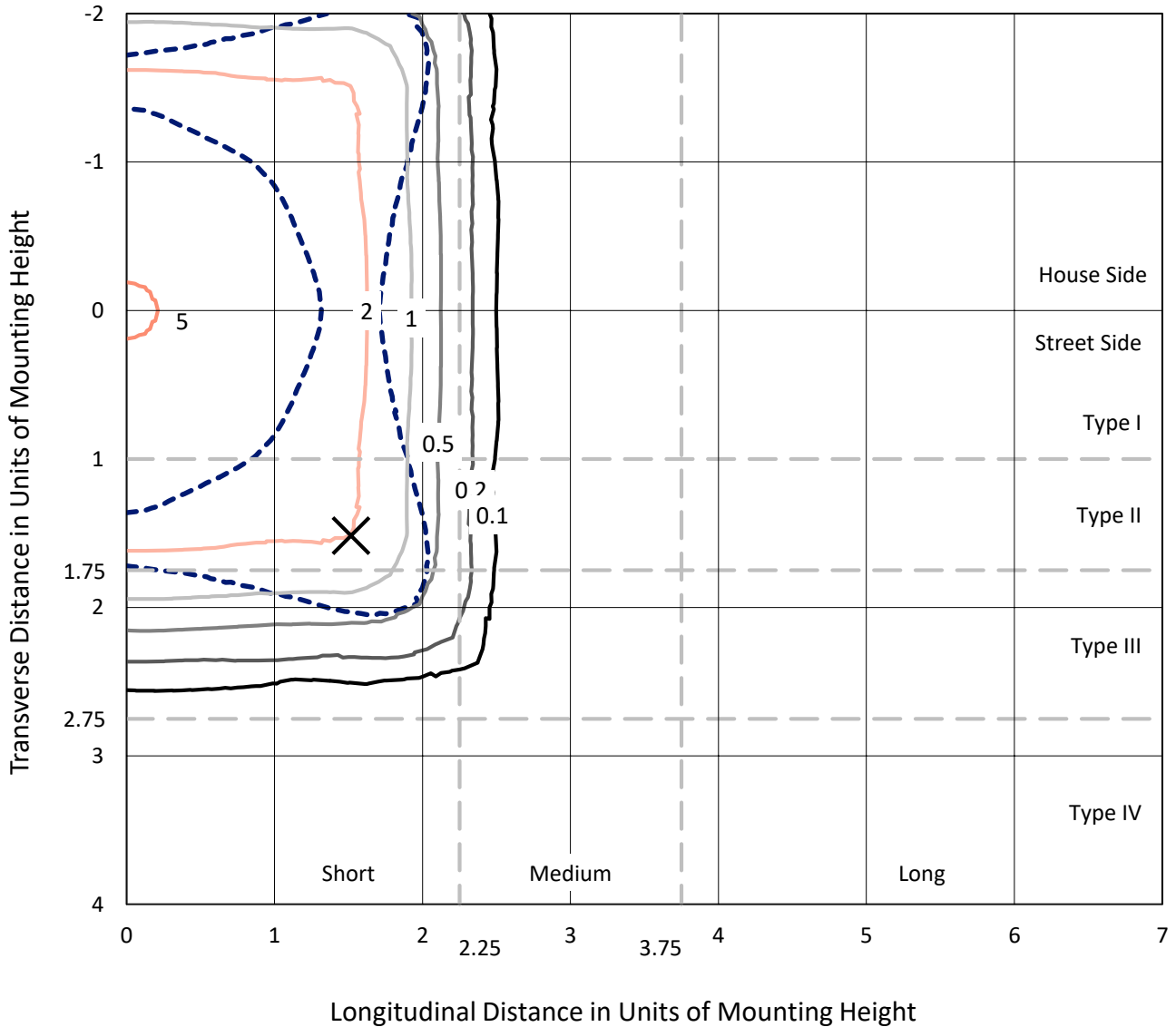


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

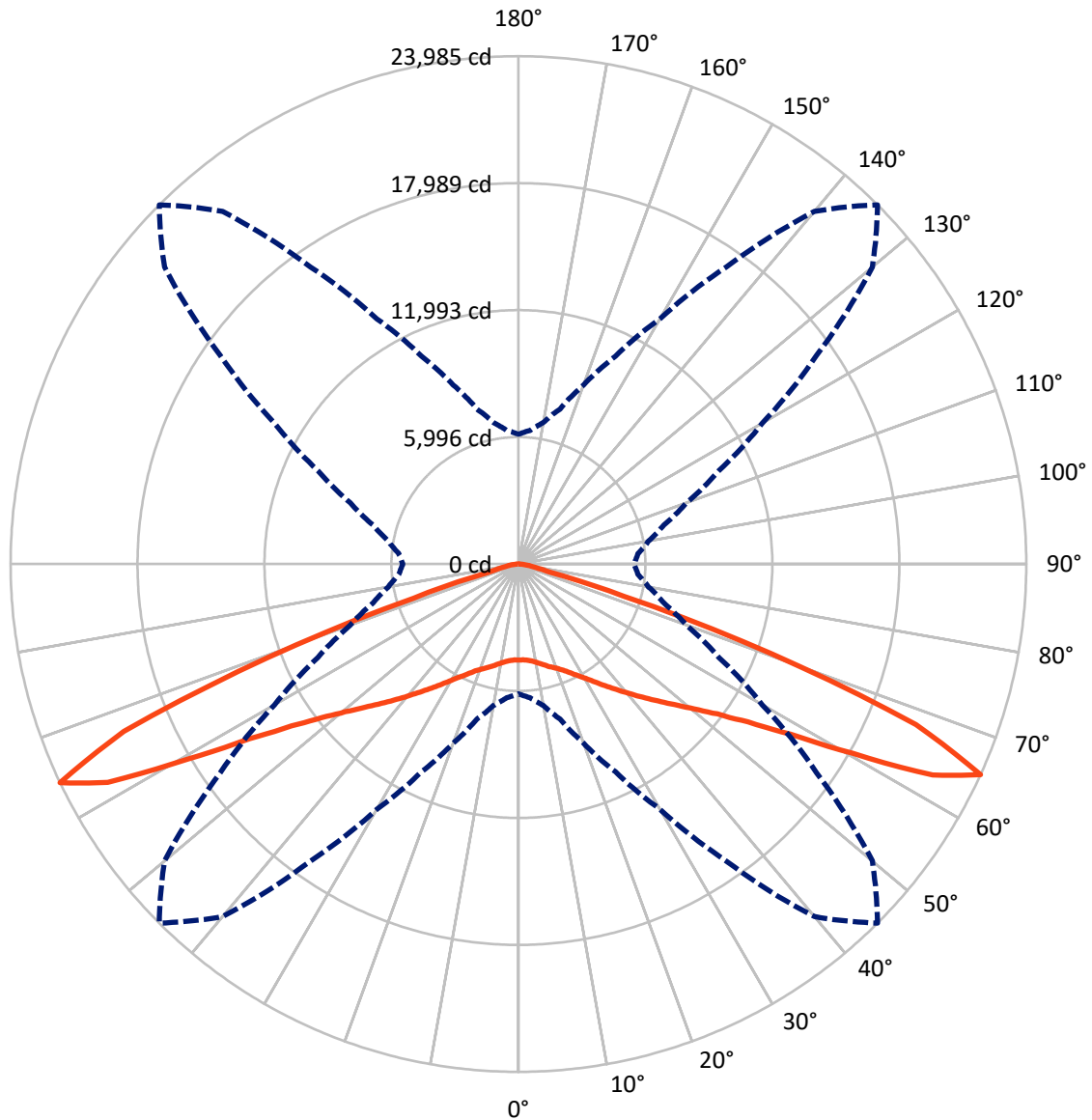


Based on 30 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20033.5	0.0	20033.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20033.5	0.0	20033.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40067.0	0.0	40067.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.9	1.1
10°-20°	1417.2	3.5
20°-30°	2649.9	6.6
30°-40°	4481.7	11.2
40°-50°	7328.0	18.3
50°-60°	11652.7	29.1
60°-70°	10533.3	26.3
70°-80°	1333.0	3.3
80°-90°	229.3	0.6
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°	40067.0	100.0
0°-180°	40067.0	100.0



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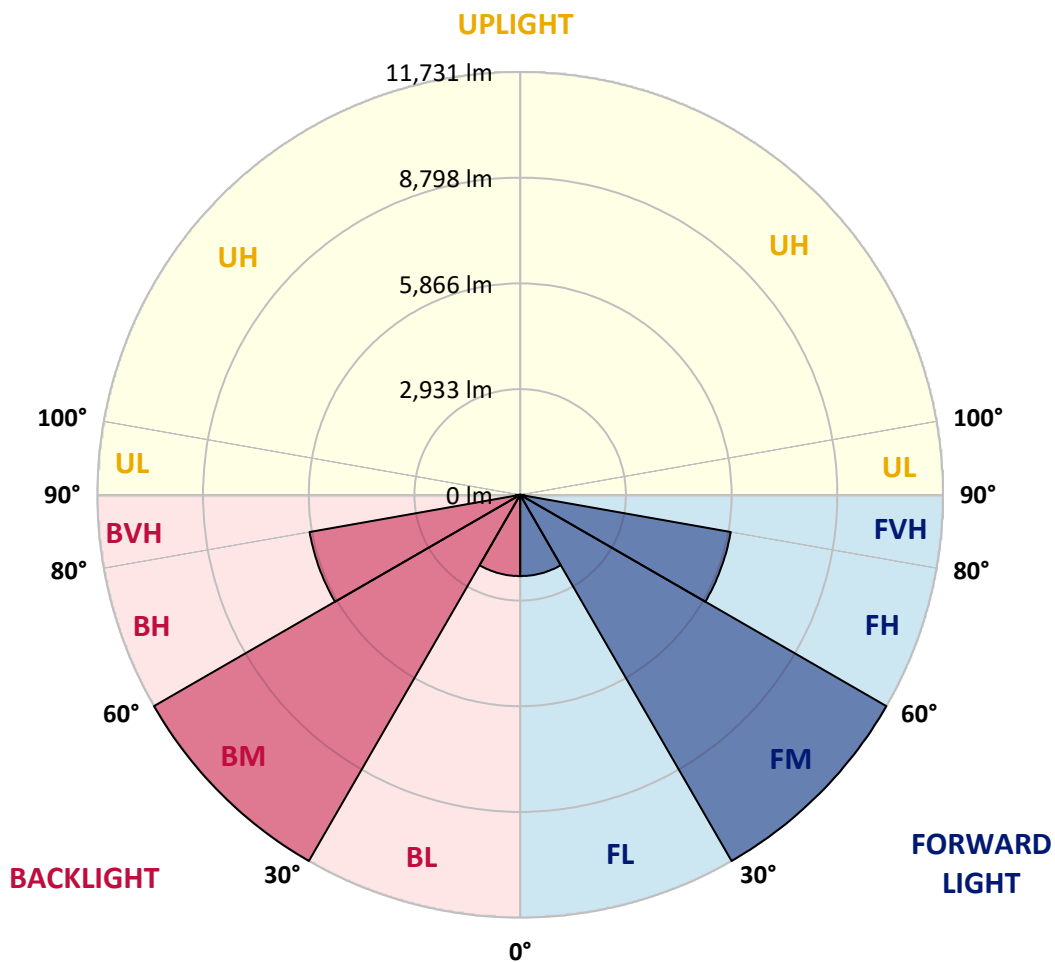
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2254.5	5.6			
FM (30°-60°)	11731.2	29.3			
FH (60°-80°)	5933.2	14.8			G3/7500
FVH (80°-90°)	114.7	0.3			G2/225
BL (0°-30°)	2254.5	5.6	B3/2500		
BM (30°-60°)	11731.2	29.3	B5		
BH (60°-80°)	5933.2	14.8	B5		G3/7500
BVH (80°-90°)	114.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4533.6	4533.6	4533.6	4533.6	4533.6	4533.6	4533.6	4533.6	4533.6	4533.6	4533.6
2.5°	4537.4	4541.1	4544.9	4541.1	4544.9	4539.2	4535.5	4541.1	4535.5	4529.8	4533.6
5°	4576.8	4578.6	4578.6	4573.0	4578.6	4574.9	4569.3	4576.8	4571.1	4565.5	4569.3
7.5°	4642.4	4649.9	4644.3	4638.7	4642.4	4638.7	4634.9	4636.8	4634.9	4629.3	4631.2
10°	4730.6	4736.3	4732.5	4730.6	4734.4	4732.5	4728.8	4726.9	4728.8	4723.1	4723.1
12.5°	4837.6	4835.7	4833.8	4835.7	4841.3	4841.3	4839.5	4841.3	4845.1	4847.0	4843.2
15°	4942.7	4946.4	4946.4	4946.4	4957.7	4967.1	4972.7	4976.5	4984.0	4985.8	4978.3
17.5°	5074.0	5074.0	5072.2	5074.0	5085.3	5100.3	5105.9	5113.4	5120.9	5126.6	5117.2
20°	5220.4	5224.2	5224.2	5227.9	5242.9	5259.8	5259.8	5263.6	5259.8	5263.6	5257.9
22.5°	5398.7	5409.9	5409.9	5411.8	5426.8	5447.5	5441.8	5447.5	5438.1	5445.6	5438.1
25°	5631.3	5648.2	5644.5	5644.5	5655.7	5668.9	5670.8	5682.0	5680.1	5689.5	5683.9
27.5°	5894.1	5920.3	5927.8	5926.0	5933.5	5946.6	5950.4	5963.5	5956.0	5963.5	5959.7
30°	6209.3	6220.6	6235.6	6241.2	6250.6	6263.7	6263.7	6265.6	6256.2	6267.5	6273.1
32.5°	6535.8	6556.5	6571.5	6605.2	6622.1	6631.5	6629.6	6633.4	6624.0	6639.0	6650.3
35°	6967.4	6982.4	7006.8	7033.1	7055.6	7053.7	7048.1	7050.0	7050.0	7063.1	7074.4
37.5°	7487.2	7491.0	7522.9	7560.4	7571.6	7560.4	7526.6	7519.1	7502.2	7519.1	7537.9
40°	8037.0	8050.1	8113.9	8138.3	8144.0	8123.3	8074.5	8046.4	8008.9	8029.5	8055.8
42.5°	8613.1	8639.4	8697.5	8740.7	8759.5	8746.3	8678.8	8635.6	8586.8	8598.1	8624.4
45°	9251.1	9283.0	9365.6	9406.8	9442.5	9421.9	9356.2	9290.5	9213.6	9219.2	9260.5
47.5°	9964.2	9996.1	10103.0	10172.5	10191.2	10187.5	10114.3	10024.2	9919.1	9915.4	9951.0
50°	10763.6	10795.5	10928.7	11035.6	11090.1	11084.4	10998.1	10870.5	10742.9	10744.8	10789.8
52.5°	11544.2	11583.6	11722.4	11906.3	12013.3	12090.2	12037.7	11917.6	11761.8	11765.6	11806.9
55°	12276.0	12341.7	12501.2	12750.8	12949.7	13165.5	13227.4	13223.6	13129.8	13156.1	13197.4
57.5°	12630.7	12728.2	12974.1	13368.1	13773.4	14212.5	14584.1	14861.8	14980.0	15158.3	15117.0
60°	11958.9	12114.6	12476.8	13056.6	13857.9	14773.6	15755.0	16713.9	17532.1	18149.4	17794.8
62.5°	9791.5	9994.2	10433.3	11176.4	12388.6	13854.1	15732.5	17999.3	20468.8	21958.7	20894.7
65°	6126.7	6336.9	6783.5	7579.1	8997.8	10819.8	13368.1	17124.9	21739.1	23985.3	21819.8
67.5°	2388.8	2503.2	2745.3	3253.8	4319.7	5941.0	8498.6	12762.0	18280.8	20249.2	17941.1
70°	1197.2	1208.5	1253.5	1347.3	1576.3	2047.3	3115.0	5916.6	10484.0	12662.6	10106.8
72.5°	865.1	866.9	889.5	930.7	1003.9	1109.0	1311.7	1810.8	3409.6	5211.0	3195.7
75°	662.4	669.9	683.0	705.6	745.0	797.5	870.7	1043.3	1292.9	1499.3	1261.0
77.5°	510.4	525.4	534.8	555.4	579.8	615.5	636.1	701.8	816.3	859.4	846.3
80°	388.4	401.6	422.2	439.1	456.0	472.9	465.4	495.4	555.4	591.1	572.3
82.5°	247.7	262.7	322.8	337.8	345.3	356.5	343.4	345.3	371.5	394.1	371.5
85°	159.5	168.9	204.5	223.3	225.2	232.7	227.1	213.9	213.9	195.2	219.5
87.5°	73.2	75.1	91.9	108.8	112.6	101.3	99.5	95.7	76.9	73.2	78.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4533.6	4533.6	4533.6	4533.6	4533.6	4533.6	4533.6	4533.6
2.5°	4531.7	4535.5	4537.4	4543.0	4544.9	4544.9	4546.7	4550.5
5°	4567.4	4573.0	4574.9	4582.4	4584.3	4582.4	4586.1	4588.0
7.5°	4631.2	4640.6	4644.3	4651.8	4646.2	4653.7	4655.6	4655.6
10°	4725.0	4734.4	4736.3	4743.8	4740.0	4743.8	4743.8	4740.0
12.5°	4848.9	4850.7	4845.1	4850.7	4843.2	4847.0	4841.3	4837.6
15°	4985.8	4980.2	4967.1	4967.1	4955.8	4957.7	4955.8	4953.9
17.5°	5119.1	5107.8	5098.4	5094.7	5085.3	5083.4	5077.8	5077.8
20°	5265.4	5259.8	5254.2	5246.7	5237.3	5227.9	5226.0	5229.8
22.5°	5441.8	5439.9	5439.9	5436.2	5423.1	5413.7	5408.0	5408.0
25°	5678.3	5661.4	5661.4	5659.5	5653.9	5648.2	5637.0	5642.6
27.5°	5944.7	5935.3	5942.8	5941.0	5935.3	5935.3	5927.8	5927.8
30°	6273.1	6269.4	6280.6	6271.2	6252.5	6250.6	6243.1	6233.7
32.5°	6652.2	6648.4	6665.3	6654.0	6624.0	6607.1	6592.1	6584.6
35°	7074.4	7076.2	7096.9	7089.4	7055.6	7044.3	7018.1	7014.3
37.5°	7536.0	7566.0	7601.7	7609.2	7581.0	7573.5	7545.4	7530.4
40°	8078.3	8117.7	8172.1	8185.3	8155.2	8149.6	8110.2	8089.6
42.5°	8656.3	8723.8	8791.4	8802.6	8772.6	8742.6	8705.0	8690.0
45°	9301.8	9382.5	9470.7	9493.2	9448.1	9412.5	9363.7	9363.7
47.5°	10026.1	10127.4	10226.9	10288.8	10247.5	10210.0	10151.8	10114.3
50°	10881.8	11020.6	11150.1	11213.9	11148.2	11076.9	10975.6	10941.8
52.5°	11955.1	12105.2	12217.8	12184.1	12082.7	11983.3	11872.6	11827.5
55°	13325.0	13375.6	13375.6	13248.0	13045.4	12878.4	12703.8	12645.7
57.5°	15038.2	14843.0	14542.8	14161.9	13683.4	13266.8	12985.3	12852.1
60°	17051.7	16113.4	15053.2	14011.8	13156.1	12450.5	12032.1	11840.7
62.5°	18393.4	15938.9	13814.7	12142.8	10911.8	10061.7	9483.8	9258.6
65°	17190.5	13293.1	10448.3	8448.0	7106.3	6241.2	5668.9	5458.7
67.5°	12591.3	8329.7	5563.8	3987.5	2921.7	2330.6	2096.0	1998.5
70°	5652.0	2933.0	1797.7	1403.6	1210.3	1110.9	1067.7	1052.7
72.5°	1703.9	1232.9	1039.6	938.2	861.3	812.5	776.9	773.1
75°	1028.3	855.7	760.0	699.9	651.1	611.7	593.0	587.3
77.5°	718.7	628.6	583.6	540.4	502.9	472.9	456.0	442.9
80°	504.8	461.6	441.0	416.6	392.2	364.0	339.6	328.4
82.5°	337.8	328.4	328.4	313.4	292.7	266.5	217.7	206.4
85°	217.7	215.8	219.5	213.9	198.9	170.8	140.7	133.2
87.5°	101.3	103.2	114.5	112.6	108.8	90.1	71.3	67.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)