

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: P190866

Luminaire Tested: **GLEON-AF-08-LED-E1-5NQ-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190866
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-08-LED-E1-5NQ-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55219.9 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

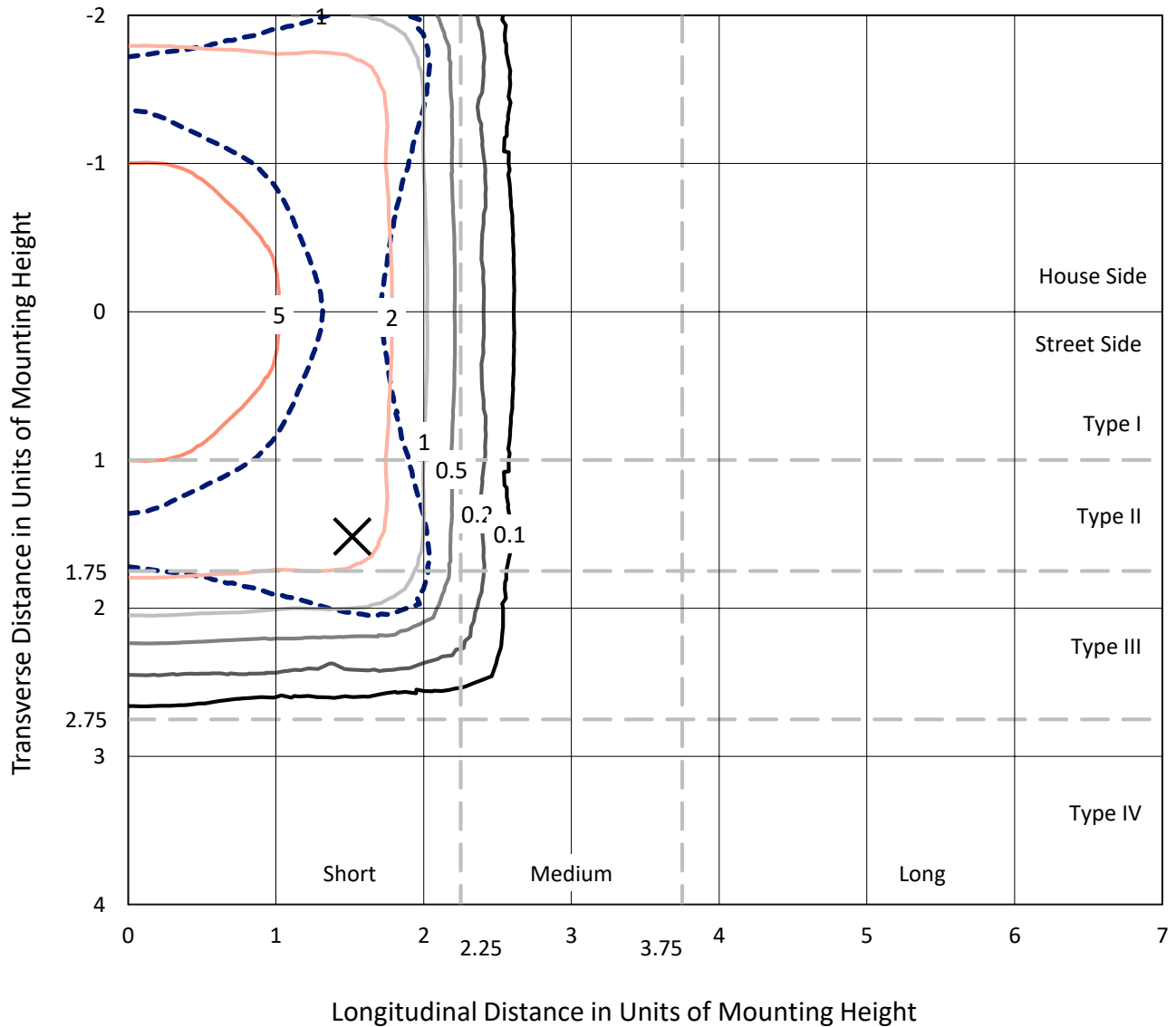
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

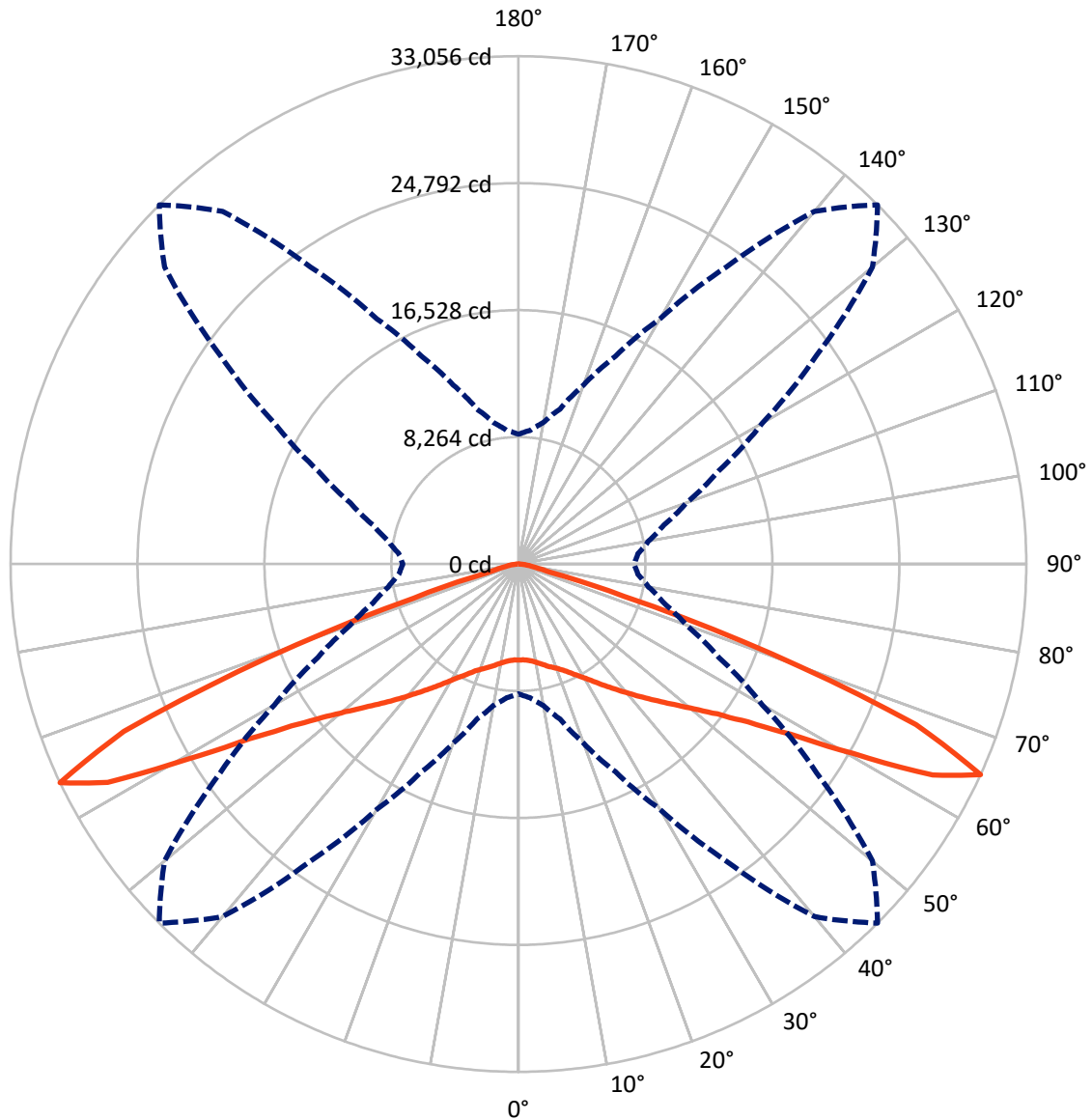
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 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	27609.9	0.0	27609.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27609.9	0.0	27609.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	55219.9	0.0	55219.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.0	1.1
10°-20°	1953.2	3.5
20°-30°	3652.0	6.6
30°-40°	6176.6	11.2
40°-50°	10099.4	18.3
50°-60°	16059.6	29.1
60°-70°	14516.9	26.3
70°-80°	1837.2	3.3
80°-90°	316.0	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°	55219.9	100.0
0°-180°	55219.9	100.0



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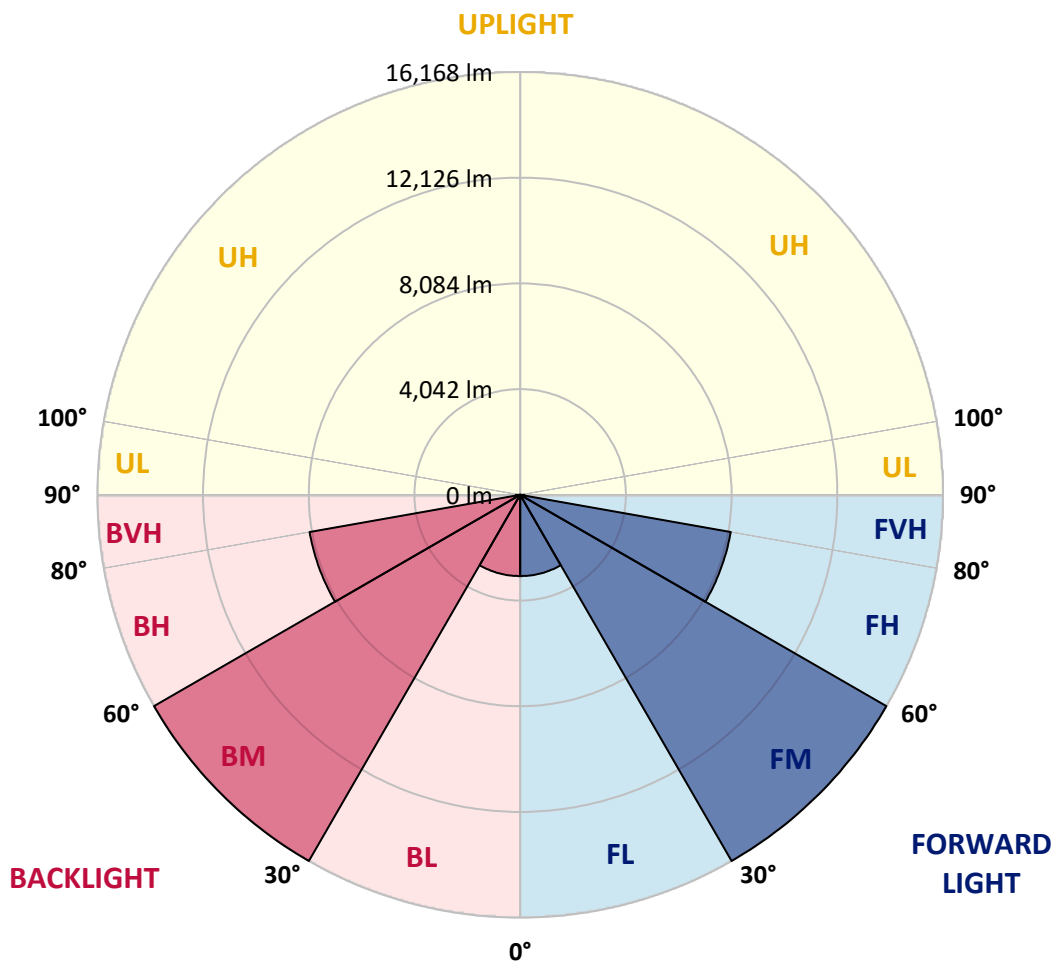
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3107.1	5.6			
FM	(30°-60°)	16167.8	29.3			
FH	(60°-80°)	8177.0	14.8			G4/12000
FVH	(80°-90°)	158.0	0.3			G2/225
BL	(0°-30°)	3107.1	5.6	B4/5000		
BM	(30°-60°)	16167.8	29.3	B5		
BH	(60°-80°)	8177.0	14.8	B5		G4/12000
BVH	(80°-90°)	158.0	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6248.2	6248.2	6248.2	6248.2	6248.2	6248.2	6248.2	6248.2	6248.2	6248.2	6248.2
2.5°	6253.3	6258.5	6263.6	6258.5	6263.6	6256.0	6250.7	6258.5	6250.7	6243.0	6248.2
5°	6307.6	6310.3	6310.3	6302.5	6310.3	6305.1	6297.3	6307.6	6299.8	6292.2	6297.3
7.5°	6398.1	6408.5	6400.7	6393.0	6398.1	6393.0	6387.8	6390.4	6387.8	6380.0	6382.6
10°	6519.7	6527.4	6522.3	6519.7	6524.9	6522.3	6517.1	6514.6	6517.1	6509.3	6509.3
12.5°	6667.1	6664.5	6662.0	6664.5	6672.3	6672.3	6669.7	6672.3	6677.4	6680.1	6674.9
15°	6811.9	6817.1	6817.1	6817.1	6832.6	6845.6	6853.4	6858.5	6868.8	6871.5	6861.0
17.5°	6993.0	6993.0	6990.4	6993.0	7008.5	7029.2	7037.0	7047.3	7057.6	7065.4	7052.4
20°	7194.7	7199.8	7199.8	7205.1	7225.7	7249.0	7249.0	7254.2	7249.0	7254.2	7246.4
22.5°	7440.4	7455.9	7455.9	7458.4	7479.2	7507.6	7499.9	7507.6	7494.6	7505.1	7494.6
25°	7761.0	7784.3	7779.1	7779.1	7794.7	7812.8	7815.3	7830.9	7828.3	7841.2	7833.5
27.5°	8123.2	8159.4	8169.7	8167.1	8177.5	8195.6	8200.7	8218.8	8208.5	8218.8	8213.7
30°	8557.6	8573.1	8593.8	8601.6	8614.5	8632.6	8632.6	8635.1	8622.2	8637.8	8645.6
32.5°	9007.6	9036.0	9056.7	9103.2	9126.6	9139.5	9136.9	9142.1	9129.1	9149.8	9165.3
35°	9602.4	9623.1	9656.8	9693.0	9724.0	9721.4	9713.6	9716.2	9716.2	9734.3	9749.8
37.5°	10318.8	10323.9	10367.9	10419.7	10435.1	10419.7	10373.1	10362.7	10339.5	10362.7	10388.6
40°	11076.5	11094.6	11182.6	11216.1	11223.9	11195.5	11128.3	11089.5	11037.7	11066.2	11102.4
42.5°	11870.4	11906.6	11986.8	12046.4	12072.1	12054.0	11961.0	11901.5	11834.3	11849.8	11886.0
45°	12749.8	12793.7	12907.5	12964.5	13013.6	12985.1	12894.6	12804.1	12698.1	12705.8	12762.7
47.5°	13732.5	13776.5	13923.9	14019.5	14045.4	14040.3	13939.4	13815.3	13670.4	13665.3	13714.4
50°	14834.2	14878.2	15061.8	15209.2	15284.2	15276.4	15157.5	14981.6	14805.8	14808.3	14870.4
52.5°	15910.1	15964.4	16155.8	16409.2	16556.6	16662.6	16590.2	16424.7	16210.1	16215.2	16272.1
55°	16918.7	17009.2	17228.9	17573.0	17847.1	18144.5	18229.8	18224.7	18095.4	18131.6	18188.5
57.5°	17407.5	17542.0	17880.7	18423.8	18982.4	19587.6	20099.7	20482.3	20645.3	20891.0	20834.1
60°	16481.6	16696.3	17195.4	17994.5	19098.8	20360.8	21713.4	23034.9	24162.5	25013.3	24524.5
62.5°	13494.6	13773.9	14379.0	15403.2	17073.9	19093.6	21682.4	24806.5	28209.8	30263.3	28796.9
65°	8443.8	8733.4	9349.0	10445.5	12400.6	14911.8	18423.8	23601.3	29960.7	33056.2	30071.9
67.5°	3292.2	3449.9	3783.6	4484.4	5953.4	8187.8	11712.7	17588.5	25194.4	27907.2	24726.3
70°	1650.0	1665.5	1727.6	1856.9	2172.3	2821.5	4293.0	8154.1	14448.9	17451.4	13929.0
72.5°	1192.2	1194.8	1225.8	1282.8	1383.6	1528.4	1807.8	2495.7	4699.0	7181.7	4404.2
75°	912.9	923.2	941.3	972.4	1026.7	1099.2	1200.0	1437.9	1781.9	2066.4	1737.9
77.5°	703.5	724.1	737.0	765.5	799.1	848.2	876.7	967.2	1124.9	1184.5	1166.4
80°	535.3	553.4	581.9	605.2	628.4	651.7	641.4	682.7	765.5	814.7	788.8
82.5°	341.4	362.0	444.8	465.5	475.9	491.3	473.2	475.9	512.1	543.1	512.1
85°	219.8	232.7	281.9	307.7	310.4	320.7	312.9	294.8	294.8	268.9	302.6
87.5°	100.9	103.4	126.7	150.0	155.2	139.6	137.1	131.9	106.1	100.9	108.6
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°	6248.2	6248.2	6248.2	6248.2	6248.2	6248.2	6248.2	6248.2
2.5°	6245.6	6250.7	6253.3	6261.1	6263.6	6263.6	6266.3	6271.4
5°	6294.7	6302.5	6305.1	6315.4	6317.9	6315.4	6320.6	6323.2
7.5°	6382.6	6395.6	6400.7	6411.1	6403.4	6413.7	6416.3	6416.3
10°	6511.9	6524.9	6527.4	6537.8	6532.7	6537.8	6537.8	6532.7
12.5°	6682.6	6685.2	6677.4	6685.2	6674.9	6680.1	6672.3	6667.1
15°	6871.5	6863.7	6845.6	6845.6	6830.0	6832.6	6830.0	6827.5
17.5°	7055.1	7039.5	7026.5	7021.4	7008.5	7005.9	6998.1	6998.1
20°	7256.8	7249.0	7241.3	7230.9	7217.9	7205.1	7202.5	7207.6
22.5°	7499.9	7497.3	7497.3	7492.1	7474.0	7461.1	7453.3	7453.3
25°	7825.7	7802.5	7802.5	7799.9	7792.1	7784.3	7768.8	7776.6
27.5°	8192.9	8180.0	8190.4	8187.8	8180.0	8180.0	8169.7	8169.7
30°	8645.6	8640.4	8655.9	8642.9	8617.1	8614.5	8604.1	8591.3
32.5°	9167.9	9162.8	9186.0	9170.5	9129.1	9105.9	9085.1	9074.8
35°	9749.8	9752.4	9780.8	9770.5	9724.0	9708.4	9672.2	9667.1
37.5°	10386.0	10427.3	10476.6	10486.9	10448.1	10437.8	10398.9	10378.2
40°	11133.4	11187.7	11262.7	11280.8	11239.5	11231.7	11177.4	11148.9
42.5°	11930.0	12023.0	12116.1	12131.7	12090.3	12048.9	11997.2	11976.5
45°	12819.6	12930.8	13052.3	13083.3	13021.3	12972.1	12904.9	12904.9
47.5°	13817.8	13957.6	14094.5	14179.9	14123.1	14071.3	13991.1	13939.4
50°	14997.2	15188.5	15367.0	15454.8	15364.4	15266.1	15126.5	15079.9
52.5°	16476.5	16683.3	16838.5	16791.9	16652.3	16515.2	16362.6	16300.5
55°	18364.3	18434.2	18434.2	18258.2	17979.0	17748.8	17508.3	17428.1
57.5°	20725.5	20456.6	20042.8	19517.8	18858.3	18284.1	17896.2	17712.6
60°	23500.5	22207.3	20746.2	19310.9	18131.6	17159.2	16582.4	16318.6
62.5°	25349.5	21966.8	19039.3	16735.1	15038.5	13867.0	13070.4	12760.1
65°	23691.8	18320.3	14399.8	11642.9	9793.8	8601.6	7812.8	7523.2
67.5°	17353.1	11480.0	7667.9	5495.6	4026.6	3212.0	2888.7	2754.3
70°	7789.5	4042.2	2477.6	1934.4	1668.0	1531.1	1471.5	1450.9
72.5°	2348.2	1699.1	1432.7	1293.1	1187.0	1119.8	1070.6	1065.5
75°	1417.2	1179.3	1047.4	964.6	897.4	843.1	817.2	809.5
77.5°	990.5	866.3	804.3	744.8	693.0	651.7	628.4	610.3
80°	695.7	636.2	607.7	574.1	540.5	501.8	468.1	452.6
82.5°	465.5	452.6	452.6	431.9	403.5	367.2	300.0	284.5
85°	300.0	297.4	302.6	294.8	274.2	235.4	194.0	183.6
87.5°	139.6	142.2	157.7	155.2	150.0	124.2	98.3	93.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)