

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: P191024

Luminaire Tested: **GLEON-AF-06-LED-E1-RW-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-RW-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40837.2 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

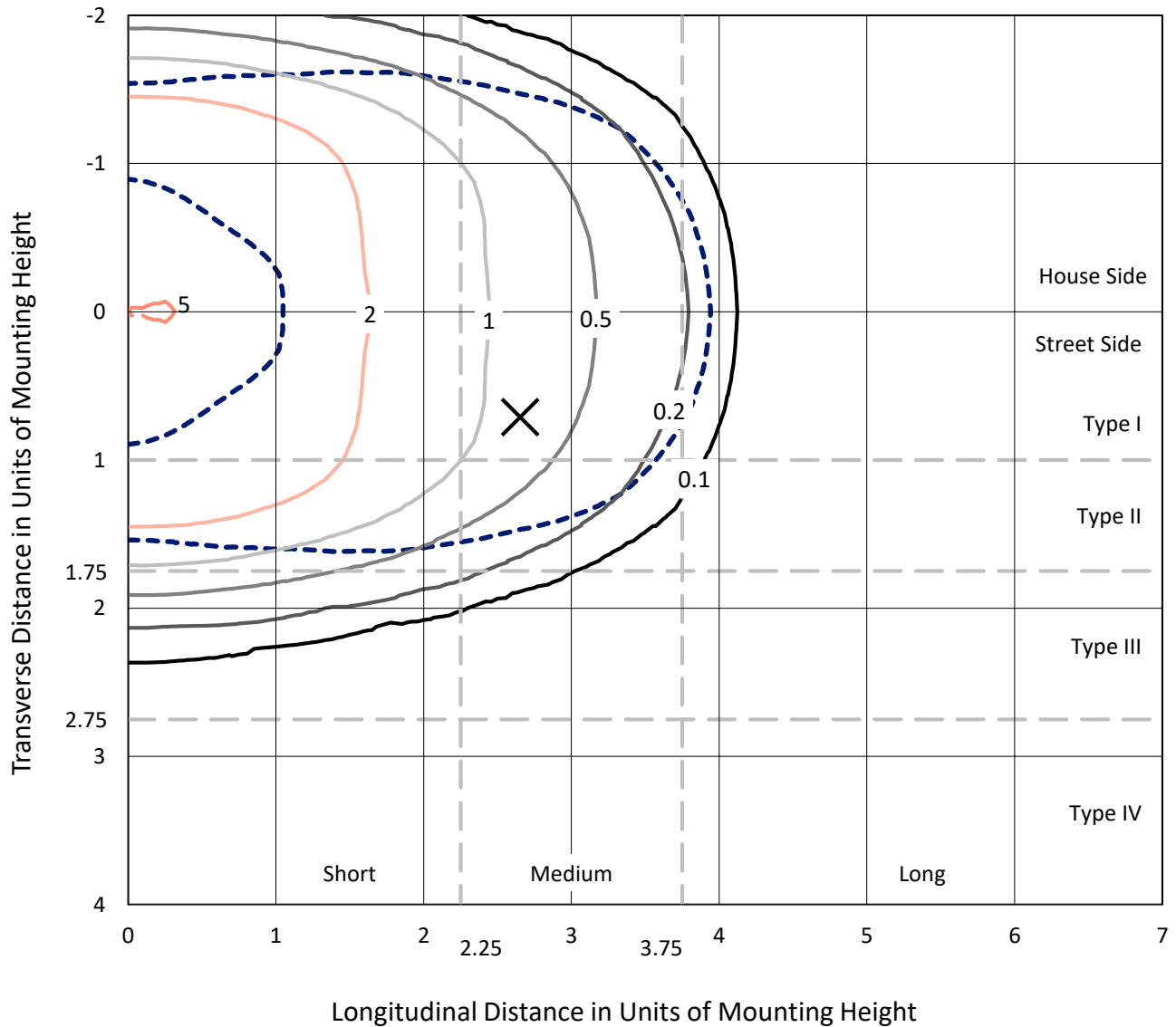
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

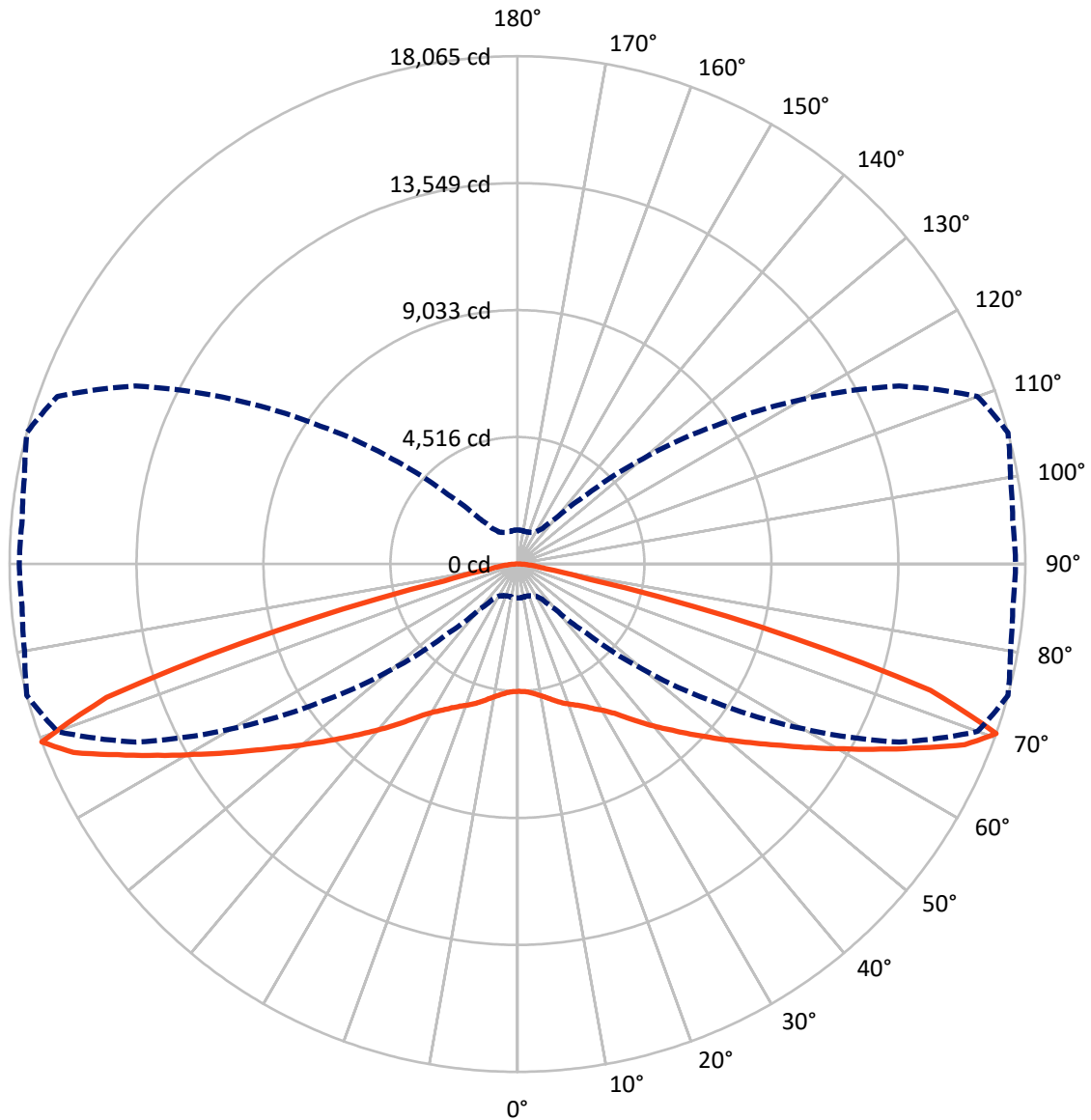
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20418.6	0.0	20418.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20418.6	0.0	20418.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	40837.2	0.0	40837.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.4	1.1
10°-20°	1349.9	3.3
20°-30°	2540.7	6.2
30°-40°	4499.1	11.0
40°-50°	7523.9	18.4
50°-60°	10484.5	25.7
60°-70°	9722.7	23.8
70°-80°	3874.8	9.5
80°-90°	407.3	1.0
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°	40837.2	100.0
0°-180°	40837.2	100.0



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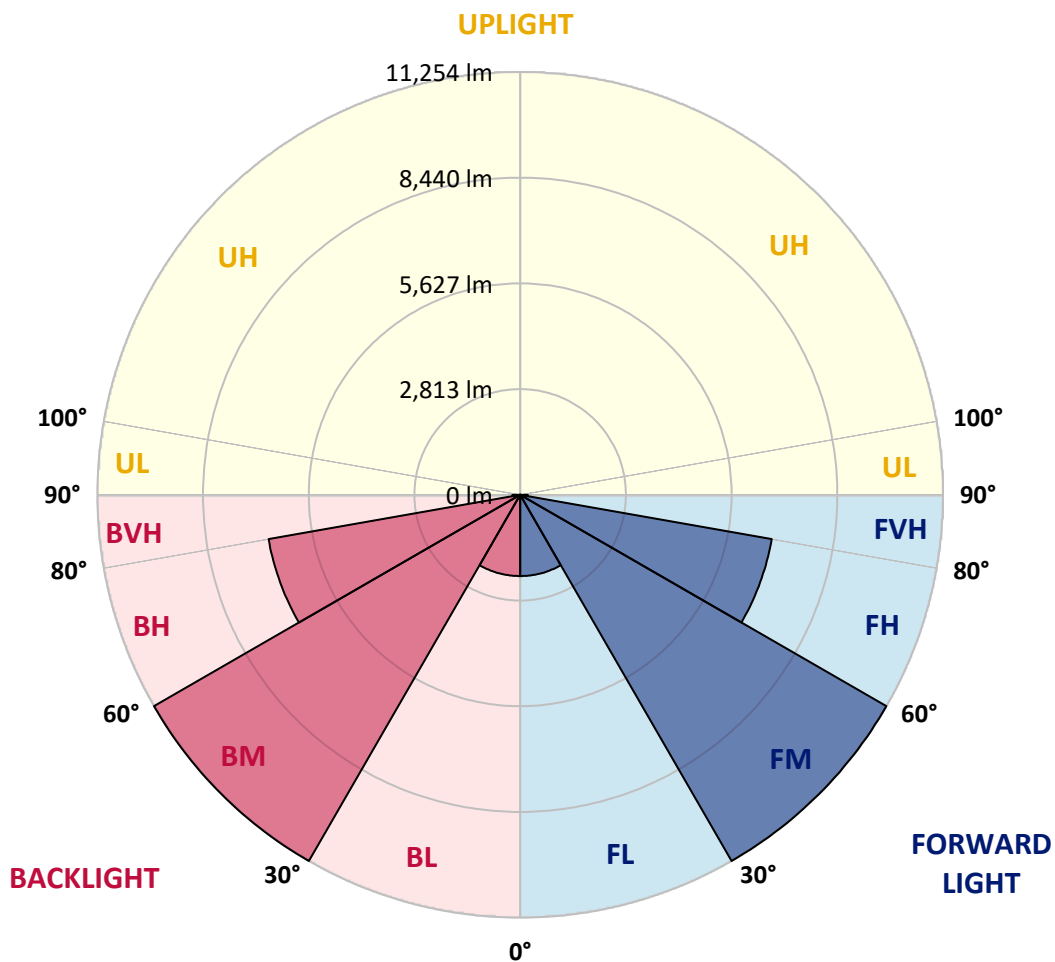
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2162.5	5.3			
FM	(30°-60°)	11253.7	27.6			
FH	(60°-80°)	6798.7	16.6			G3/7500
FVH	(80°-90°)	203.6	0.5			G2/225
BL	(0°-30°)	2162.5	5.3	B3/2500		
BM	(30°-60°)	11253.7	27.6	B5		
BH	(60°-80°)	6798.7	16.6	B5		G5
BVH	(80°-90°)	203.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4529.8	4529.8	4529.8	4529.8	4529.8	4529.8	4529.8	4529.8	4529.8	4529.8	4529.8
2.5°	4522.1	4518.2	4522.1	4520.1	4524.0	4524.0	4527.9	4535.6	4535.6	4541.4	4539.4
5°	4477.7	4475.7	4481.5	4487.4	4493.1	4504.7	4516.3	4533.6	4547.1	4556.8	4566.5
7.5°	4390.8	4390.8	4398.6	4412.1	4425.6	4450.7	4477.7	4512.4	4547.1	4576.2	4601.2
10°	4319.4	4323.3	4332.9	4356.1	4379.3	4417.8	4454.5	4504.7	4552.9	4601.2	4639.8
12.5°	4277.0	4282.8	4300.1	4334.9	4373.4	4425.6	4481.5	4545.3	4599.3	4657.2	4695.8
15°	4290.5	4294.3	4319.4	4361.9	4412.1	4477.7	4552.9	4628.2	4692.0	4753.7	4805.8
17.5°	4365.7	4371.6	4400.5	4448.7	4500.9	4578.0	4659.1	4744.0	4823.2	4892.7	4956.3
20°	4500.9	4506.6	4543.3	4595.4	4657.2	4736.3	4817.4	4906.2	4995.0	5068.3	5139.7
22.5°	4692.0	4701.6	4736.3	4788.4	4857.9	4942.8	5039.4	5133.9	5218.8	5286.4	5350.0
25°	4942.8	4964.1	4996.9	5054.8	5128.2	5205.3	5309.5	5406.0	5487.1	5550.8	5597.1
27.5°	5298.0	5326.9	5352.0	5407.9	5479.3	5552.7	5656.9	5741.8	5819.1	5880.8	5915.5
30°	5768.9	5797.9	5822.9	5877.0	5942.6	6012.1	6110.5	6185.8	6234.1	6282.2	6280.3
32.5°	6340.1	6371.0	6380.7	6438.7	6506.2	6581.5	6670.3	6712.7	6751.3	6757.1	6722.3
35°	6979.0	6994.4	7033.1	7110.2	7187.5	7249.2	7334.1	7355.4	7355.4	7326.4	7249.2
37.5°	7679.6	7689.3	7743.3	7830.2	7909.3	7973.0	8030.9	8073.3	8052.2	7990.4	7861.1
40°	8447.7	8465.1	8542.4	8619.6	8708.4	8768.1	8829.9	8837.7	8816.4	8725.7	8550.0
42.5°	9181.2	9196.6	9273.9	9395.4	9511.2	9594.3	9652.2	9663.7	9596.2	9513.1	9295.0
45°	9812.3	9852.9	9953.2	10096.0	10264.0	10381.7	10460.8	10493.6	10433.8	10325.7	10072.9
47.5°	10312.2	10352.8	10495.6	10665.4	10873.9	11065.0	11196.2	11265.7	11250.2	11169.1	10893.1
50°	10678.9	10717.5	10871.9	11080.4	11323.6	11560.9	11784.8	11950.8	12008.7	11972.0	11719.2
52.5°	10721.3	10785.1	10966.4	11246.3	11562.8	11887.1	12205.5	12487.4	12678.5	12707.4	12520.2
55°	10128.8	10192.6	10443.4	10858.4	11329.3	11858.1	12367.7	12842.4	13218.9	13411.8	13313.4
57.5°	8731.5	8845.4	9109.8	9596.2	10289.0	11080.4	11892.9	12736.4	13502.5	14014.0	14112.4
60°	6691.4	6826.6	7092.9	7610.1	8382.2	9325.9	10410.7	11657.4	13010.4	14160.7	14847.8
62.5°	4292.4	4419.8	4699.6	5149.3	5778.5	6801.5	7965.3	9445.6	11263.7	13079.9	14716.6
65°	2206.0	2275.6	2422.2	2694.4	3184.5	3948.9	4993.0	6469.4	8548.2	10789.0	13155.1
67.5°	1397.4	1410.9	1443.7	1482.3	1607.8	1872.1	2358.5	3279.2	4989.1	7326.4	10096.0
70°	1208.2	1208.2	1192.8	1186.9	1202.4	1239.1	1314.4	1528.6	2105.6	3477.9	5822.9
72.5°	1105.9	1094.4	1067.3	1046.1	1042.2	1042.2	1057.6	1090.5	1183.1	1416.7	2279.3
75°	1019.1	986.2	949.6	924.4	914.8	905.2	903.3	909.1	928.3	965.1	1088.5
77.5°	912.9	870.4	828.0	802.9	791.4	777.9	766.2	752.7	743.1	754.6	808.6
80°	785.5	737.2	704.5	689.1	677.4	658.2	633.0	609.9	588.7	584.8	617.7
82.5°	633.0	577.0	579.0	584.8	563.5	536.5	509.5	484.5	447.7	428.5	447.7
85°	511.5	482.5	469.0	505.6	474.8	434.2	391.8	347.4	289.5	243.2	264.4
87.5°	198.8	198.8	297.3	457.5	411.1	335.8	287.6	245.1	152.5	117.7	119.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4529.8	4529.8	4529.8	4529.8	4529.8	4529.8	4529.8	4529.8
2.5°	4537.5	4541.4	4539.4	4537.5	4537.5	4535.6	4537.5	4537.5
5°	4572.3	4581.9	4581.9	4585.8	4585.8	4587.7	4589.7	4587.7
7.5°	4624.4	4641.7	4653.3	4666.8	4668.7	4670.7	4674.6	4670.7
10°	4676.5	4711.2	4736.3	4761.4	4773.0	4776.9	4780.7	4780.7
12.5°	4742.1	4790.4	4834.8	4879.2	4900.3	4911.9	4911.9	4919.7
15°	4850.2	4898.4	4950.6	5010.4	5047.0	5066.4	5072.1	5072.1
17.5°	5002.6	5045.1	5089.5	5147.4	5193.7	5218.8	5224.6	5222.7
20°	5180.2	5220.7	5245.8	5282.5	5323.0	5352.0	5359.8	5359.8
22.5°	5382.9	5406.0	5409.9	5421.4	5454.3	5492.9	5510.2	5514.1
25°	5606.8	5612.5	5597.1	5597.1	5618.4	5655.0	5672.4	5674.3
27.5°	5896.3	5867.3	5828.7	5815.2	5828.7	5871.2	5892.4	5900.2
30°	6257.2	6187.7	6098.9	6050.7	6043.0	6098.9	6137.5	6143.3
32.5°	6670.3	6569.8	6452.2	6353.6	6328.6	6363.4	6409.6	6407.8
35°	7160.5	7040.8	6898.0	6772.5	6714.6	6749.3	6815.0	6822.7
37.5°	7725.9	7569.6	7405.6	7247.3	7156.6	7166.3	7235.7	7258.9
40°	8357.1	8154.5	7947.9	7735.6	7606.3	7581.2	7666.1	7679.6
42.5°	9032.6	8772.0	8511.5	8249.0	8082.9	8044.4	8142.8	8137.1
45°	9752.5	9420.6	9115.6	8826.0	8629.2	8571.3	8652.3	8652.3
47.5°	10526.5	10117.3	9754.4	9426.3	9212.1	9129.1	9206.3	9212.1
50°	11346.7	10912.4	10485.9	10121.1	9864.4	9758.2	9858.6	9874.0
52.5°	12163.1	11740.4	11310.1	10893.1	10582.4	10453.1	10568.9	10619.0
55°	12991.1	12576.2	12165.0	11757.8	11389.1	11236.7	11360.2	11423.9
57.5°	13865.4	13481.4	13089.5	12678.5	12323.3	12085.9	12217.1	12302.1
60°	14890.3	14562.1	14154.9	13701.3	13342.3	13101.1	13176.3	13251.6
62.5°	15700.9	15828.2	15482.8	14957.8	14496.5	14187.7	14261.1	14340.1
65°	15309.1	16615.7	16922.6	16391.8	15752.9	15272.3	15241.6	15282.1
67.5°	12796.2	15334.1	17185.1	17690.7	17156.1	16488.3	16364.8	16424.6
70°	8559.7	11721.1	14986.7	17418.6	18065.1	17806.5	17685.0	17721.6
72.5°	4110.9	6826.6	10167.4	13400.2	15368.9	16272.2	16561.7	16702.5
75°	1503.5	2709.8	4900.3	7384.4	8914.8	10319.9	11236.7	11611.1
77.5°	907.2	1094.4	1565.2	2356.6	2669.3	2987.7	2864.2	2925.9
80°	671.7	758.5	858.9	965.1	999.7	999.7	961.2	930.3
82.5°	471.0	526.9	575.1	633.0	648.4	619.5	509.5	405.3
85°	303.0	328.1	349.3	386.0	376.3	359.0	241.2	214.2
87.5°	138.9	158.3	166.0	183.3	175.6	167.9	119.7	100.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)