

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: P190838

Luminaire Tested: **GLEON-AF-10-LED-E1-5NQ-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190838
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-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40961 lumens
Efficiency: N/A
Efficacy: 126.8 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

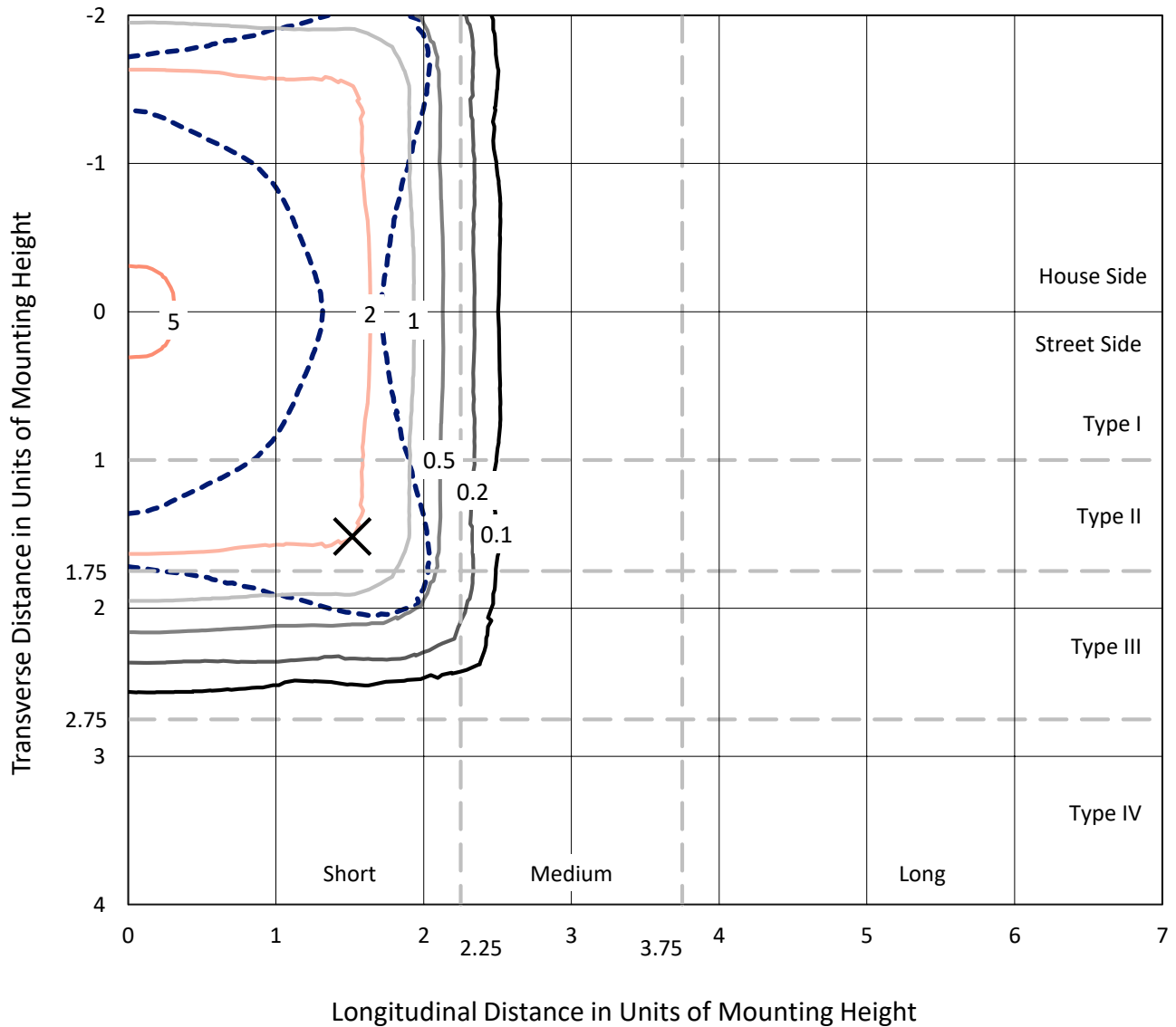
Input Watts (W): 323
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

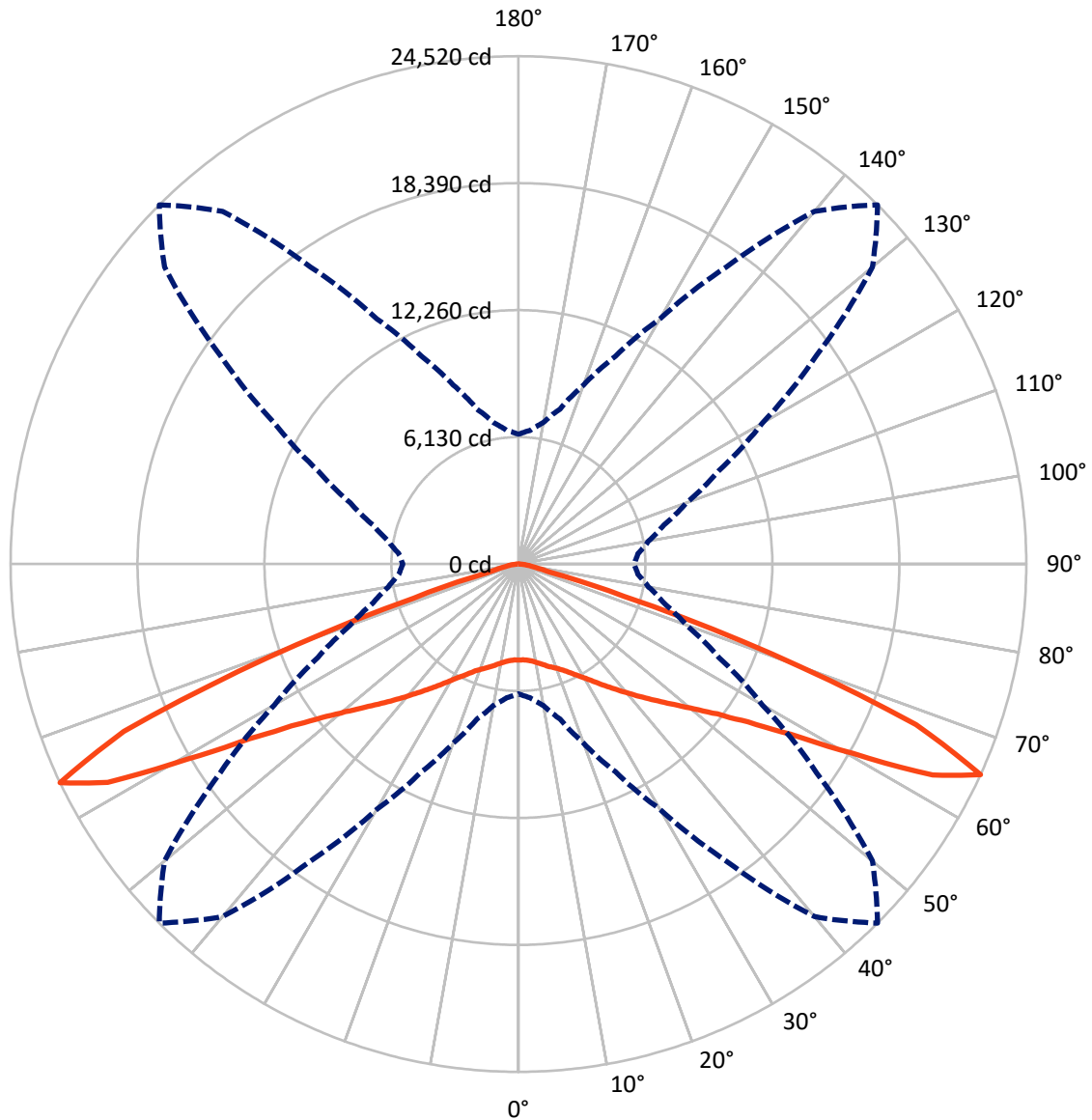
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 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	20480.5	0.0	20480.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20480.5	0.0	20480.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40961.0	0.0	40961.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.7	1.1
10°-20°	1448.8	3.5
20°-30°	2709.0	6.6
30°-40°	4581.7	11.2
40°-50°	7491.5	18.3
50°-60°	11912.7	29.1
60°-70°	10768.3	26.3
70°-80°	1362.8	3.3
80°-90°	234.4	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°	40961.0	100.0
0°-180°	40961.0	100.0



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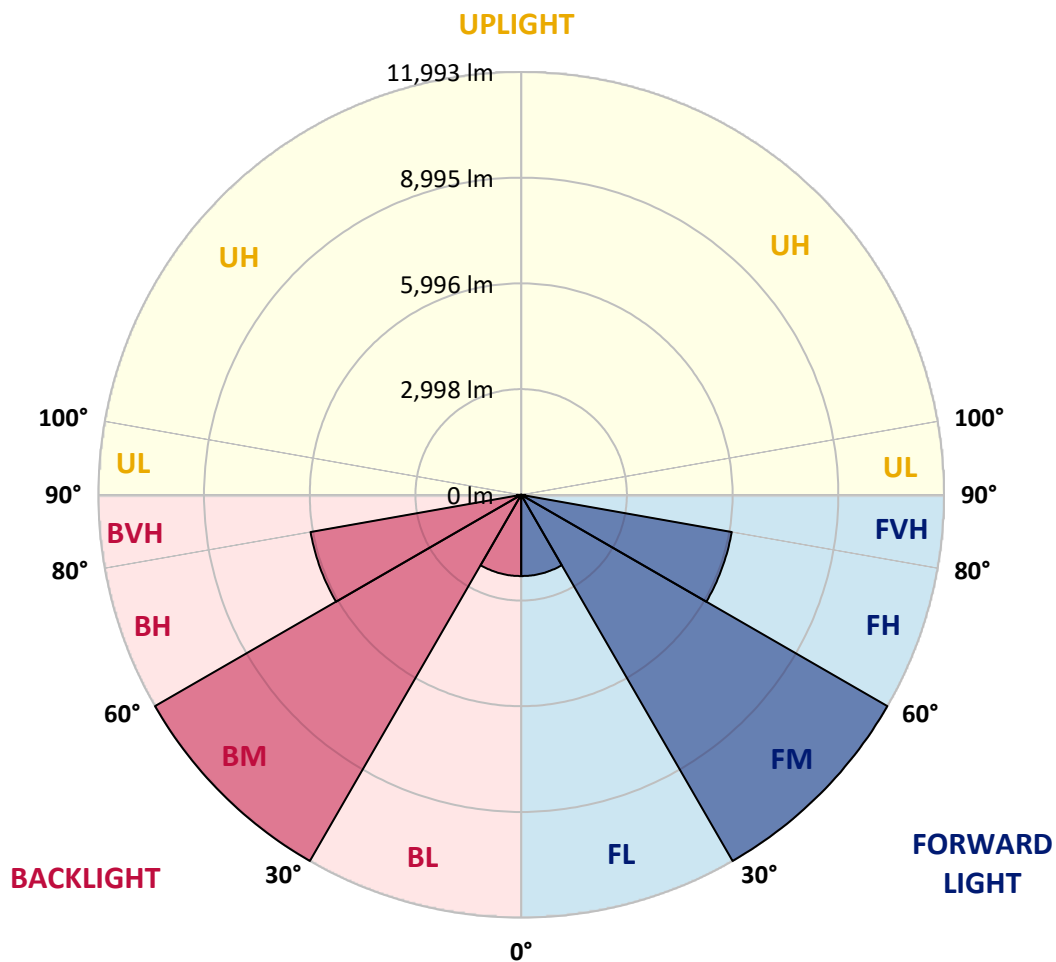
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2304.8	5.6			
FM	(30°-60°)	11993.0	29.3			
FH	(60°-80°)	6065.6	14.8			G3/7500
FVH	(80°-90°)	117.2	0.3			G2/225
BL	(0°-30°)	2304.8	5.6	B3/2500		
BM	(30°-60°)	11993.0	29.3	B5		
BH	(60°-80°)	6065.6	14.8	B5		G3/7500
BVH	(80°-90°)	117.2	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°	4634.8	4634.8	4634.8	4634.8	4634.8	4634.8	4634.8	4634.8	4634.8	4634.8	4634.8
2.5°	4638.6	4642.5	4646.2	4642.5	4646.2	4640.5	4636.6	4642.5	4636.6	4630.9	4634.8
5°	4678.9	4680.8	4680.8	4675.1	4680.8	4676.9	4671.2	4678.9	4673.1	4667.4	4671.2
7.5°	4746.0	4753.7	4747.9	4742.2	4746.0	4742.2	4738.3	4740.3	4738.3	4732.6	4734.5
10°	4836.2	4841.9	4838.1	4836.2	4840.0	4838.1	4834.3	4832.3	4834.3	4828.5	4828.5
12.5°	4945.6	4943.6	4941.7	4943.6	4949.3	4949.3	4947.5	4949.3	4953.2	4955.2	4951.3
15°	5053.0	5056.8	5056.8	5056.8	5068.3	5077.9	5083.7	5087.4	5095.2	5097.1	5089.4
17.5°	5187.3	5187.3	5185.3	5187.3	5198.7	5214.1	5219.8	5227.5	5235.2	5241.0	5231.4
20°	5336.8	5340.7	5340.7	5344.5	5359.9	5377.1	5377.1	5381.0	5377.1	5381.0	5375.2
22.5°	5519.1	5530.6	5530.6	5532.5	5547.9	5569.0	5563.2	5569.0	5559.4	5567.1	5559.4
25°	5757.0	5774.3	5770.5	5770.5	5781.9	5795.3	5797.3	5808.8	5806.9	5816.5	5810.7
27.5°	6025.6	6052.4	6060.1	6058.2	6065.9	6079.3	6083.1	6096.6	6088.9	6096.6	6092.7
30°	6347.8	6359.4	6374.7	6380.5	6390.1	6403.5	6403.5	6405.4	6395.8	6407.4	6413.1
32.5°	6681.6	6702.8	6718.1	6752.6	6769.9	6779.5	6777.6	6781.4	6771.8	6787.2	6798.6
35°	7122.9	7138.3	7163.1	7190.0	7213.0	7211.1	7205.4	7207.3	7207.3	7220.7	7232.3
37.5°	7654.2	7658.1	7690.7	7729.1	7740.6	7729.1	7694.5	7686.9	7669.6	7686.9	7706.1
40°	8216.3	8229.7	8295.0	8320.0	8325.7	8304.6	8254.7	8226.0	8187.6	8208.7	8235.5
42.5°	8805.3	8832.2	8891.6	8935.7	8954.9	8941.5	8872.5	8828.3	8778.5	8789.9	8816.8
45°	9457.5	9490.1	9574.5	9616.8	9653.2	9632.1	9564.9	9497.8	9419.1	9424.9	9467.1
47.5°	10186.5	10219.1	10328.4	10399.4	10418.7	10414.8	10340.0	10247.9	10140.4	10136.6	10173.0
50°	11003.7	11036.3	11172.6	11281.9	11337.5	11331.7	11243.6	11113.0	10982.6	10984.5	11030.6
52.5°	11801.8	11842.1	11984.0	12172.0	12281.3	12360.0	12306.3	12183.5	12024.3	12028.2	12070.3
55°	12549.9	12617.1	12780.1	13035.3	13238.6	13459.2	13522.5	13518.7	13422.8	13449.7	13491.8
57.5°	12912.5	13012.2	13263.6	13666.4	14080.8	14529.7	14909.5	15193.4	15314.3	15496.5	15454.3
60°	12225.7	12385.0	12755.2	13348.0	14167.1	15103.3	16106.6	17086.9	17923.2	18554.4	18191.9
62.5°	10010.0	10217.2	10666.1	11425.7	12665.1	14163.3	16083.5	18400.9	20925.5	22448.7	21361.0
65°	6263.4	6478.3	6934.9	7748.2	9198.6	11061.3	13666.4	17507.0	22224.2	24520.4	22306.7
67.5°	2442.1	2559.1	2806.6	3326.4	4416.1	6073.6	8688.2	13046.8	18688.7	20701.0	18341.4
70°	1224.0	1235.4	1281.5	1377.4	1611.5	2093.0	3184.4	6048.6	10717.9	12945.1	10332.3
72.5°	884.3	886.3	909.3	951.5	1026.3	1133.7	1340.9	1851.2	3485.7	5327.3	3267.0
75°	677.2	684.9	698.3	721.3	761.6	815.3	890.1	1066.6	1321.8	1532.8	1289.1
77.5°	521.8	537.2	546.8	567.8	592.8	629.2	650.3	717.5	834.5	878.6	865.2
80°	397.1	410.5	431.6	448.9	466.2	483.4	475.8	506.5	567.8	604.3	585.1
82.5°	253.2	268.5	330.0	345.3	353.0	364.5	351.1	353.0	379.8	402.8	379.8
85°	163.1	172.7	209.1	228.3	230.2	237.8	232.1	218.7	218.7	199.5	224.4
87.5°	74.8	76.7	94.0	111.3	115.1	103.6	101.7	97.8	78.7	74.8	80.6
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°	4634.8	4634.8	4634.8	4634.8	4634.8	4634.8	4634.8	4634.8
2.5°	4632.8	4636.6	4638.6	4644.4	4646.2	4646.2	4648.2	4652.1
5°	4669.3	4675.1	4676.9	4684.6	4686.5	4684.6	4688.5	4690.4
7.5°	4734.5	4744.1	4747.9	4755.6	4749.9	4757.5	4759.5	4759.5
10°	4830.5	4840.0	4841.9	4849.6	4845.8	4849.6	4849.6	4845.8
12.5°	4957.0	4959.0	4953.2	4959.0	4951.3	4955.2	4949.3	4945.6
15°	5097.1	5091.3	5077.9	5077.9	5066.4	5068.3	5066.4	5064.4
17.5°	5233.3	5221.8	5212.1	5208.4	5198.7	5196.8	5191.1	5191.1
20°	5382.9	5377.1	5371.4	5363.7	5354.1	5344.5	5342.7	5346.5
22.5°	5563.2	5561.4	5561.4	5557.5	5544.1	5534.5	5528.7	5528.7
25°	5804.9	5787.7	5787.7	5785.8	5780.0	5774.3	5762.8	5768.5
27.5°	6077.4	6067.7	6075.4	6073.6	6067.7	6067.7	6060.1	6060.1
30°	6413.1	6409.2	6420.8	6411.1	6392.0	6390.1	6382.4	6372.8
32.5°	6800.6	6796.8	6814.0	6802.5	6771.8	6754.5	6739.2	6731.5
35°	7232.3	7234.1	7255.3	7247.6	7213.0	7201.6	7174.7	7170.8
37.5°	7704.1	7734.8	7771.3	7778.9	7750.2	7742.5	7713.8	7698.4
40°	8258.6	8298.8	8354.4	8367.8	8337.2	8331.4	8291.1	8270.0
42.5°	8849.4	8918.5	8987.5	8999.0	8968.3	8937.6	8899.3	8883.9
45°	9509.4	9591.8	9681.9	9704.9	9658.9	9622.5	9572.6	9572.6
47.5°	10249.8	10353.4	10455.1	10518.4	10476.1	10437.8	10378.3	10340.0
50°	11124.6	11266.6	11398.9	11464.1	11397.0	11324.1	11220.4	11186.0
52.5°	12221.9	12375.4	12490.4	12456.0	12352.3	12250.7	12137.5	12091.4
55°	13622.2	13674.1	13674.1	13543.7	13336.4	13165.7	12987.3	12927.8
57.5°	15373.7	15174.2	14867.3	14477.8	13988.6	13562.8	13275.0	13138.9
60°	17432.1	16473.0	15389.1	14324.4	13449.7	12728.3	12300.6	12104.9
62.5°	18803.8	16294.6	14123.0	12413.7	11155.3	10286.3	9695.4	9465.2
65°	17574.1	13589.7	10681.4	8636.5	7264.8	6380.5	5795.3	5580.5
67.5°	12872.2	8515.6	5687.9	4076.6	2986.9	2382.6	2142.8	2043.0
70°	5778.1	2998.4	1837.8	1434.9	1237.4	1135.7	1091.6	1076.2
72.5°	1741.9	1260.4	1062.7	959.2	880.6	830.6	794.2	790.3
75°	1051.3	874.7	776.9	715.6	665.6	625.4	606.2	600.5
77.5°	734.7	642.6	596.6	552.5	514.1	483.4	466.2	452.8
80°	516.1	471.9	450.8	425.9	400.9	372.1	347.2	335.7
82.5°	345.3	335.7	335.7	320.4	299.2	272.4	222.5	211.0
85°	222.5	220.7	224.4	218.7	203.4	174.6	143.8	136.2
87.5°	103.6	105.5	117.0	115.1	111.3	92.1	72.9	69.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)