

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: P269445

Luminaire Tested: **GLEON-AF-07-LED-E1-5NQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269445
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-07-LED-E1-5NQ-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37731.1 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

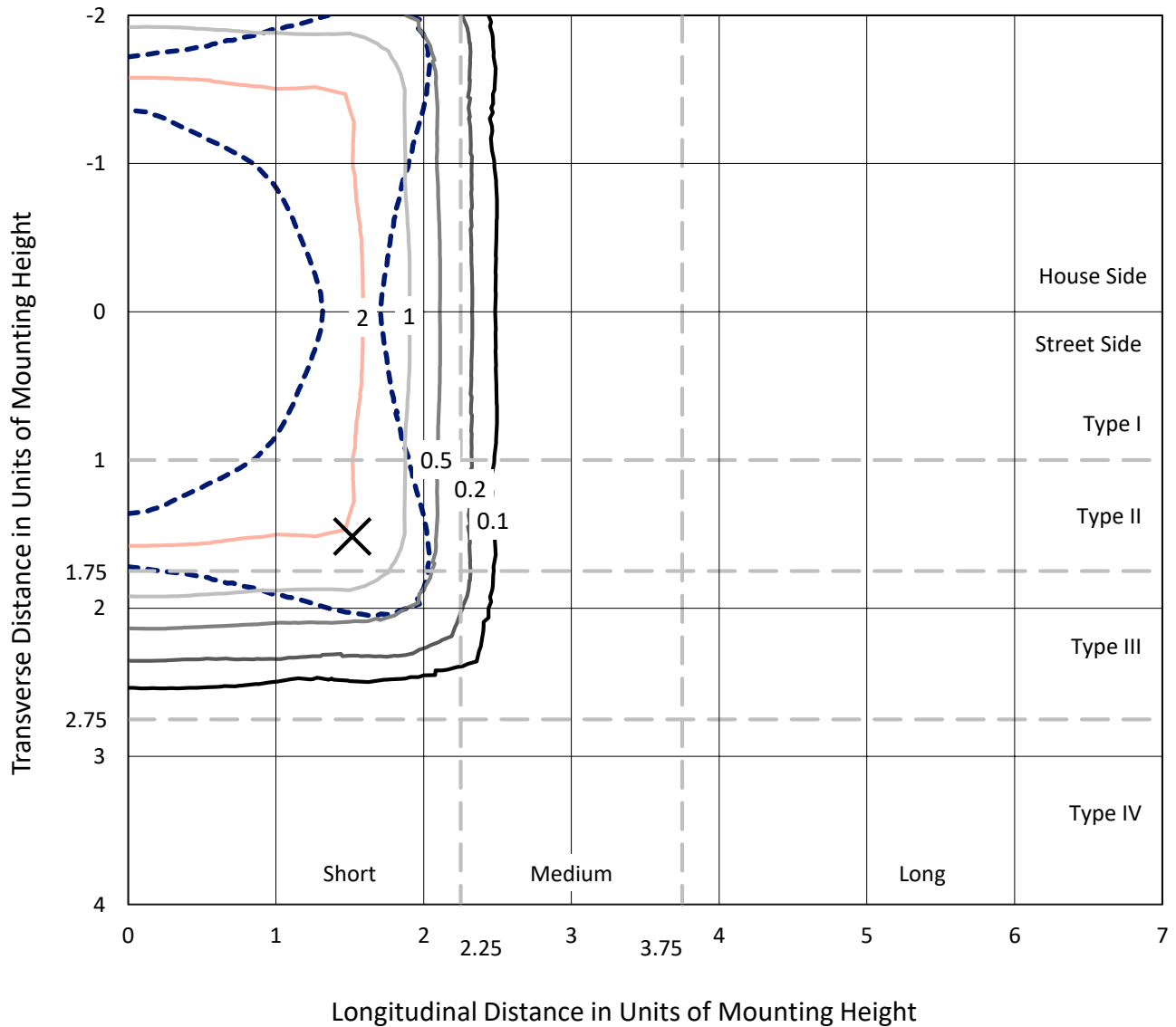
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

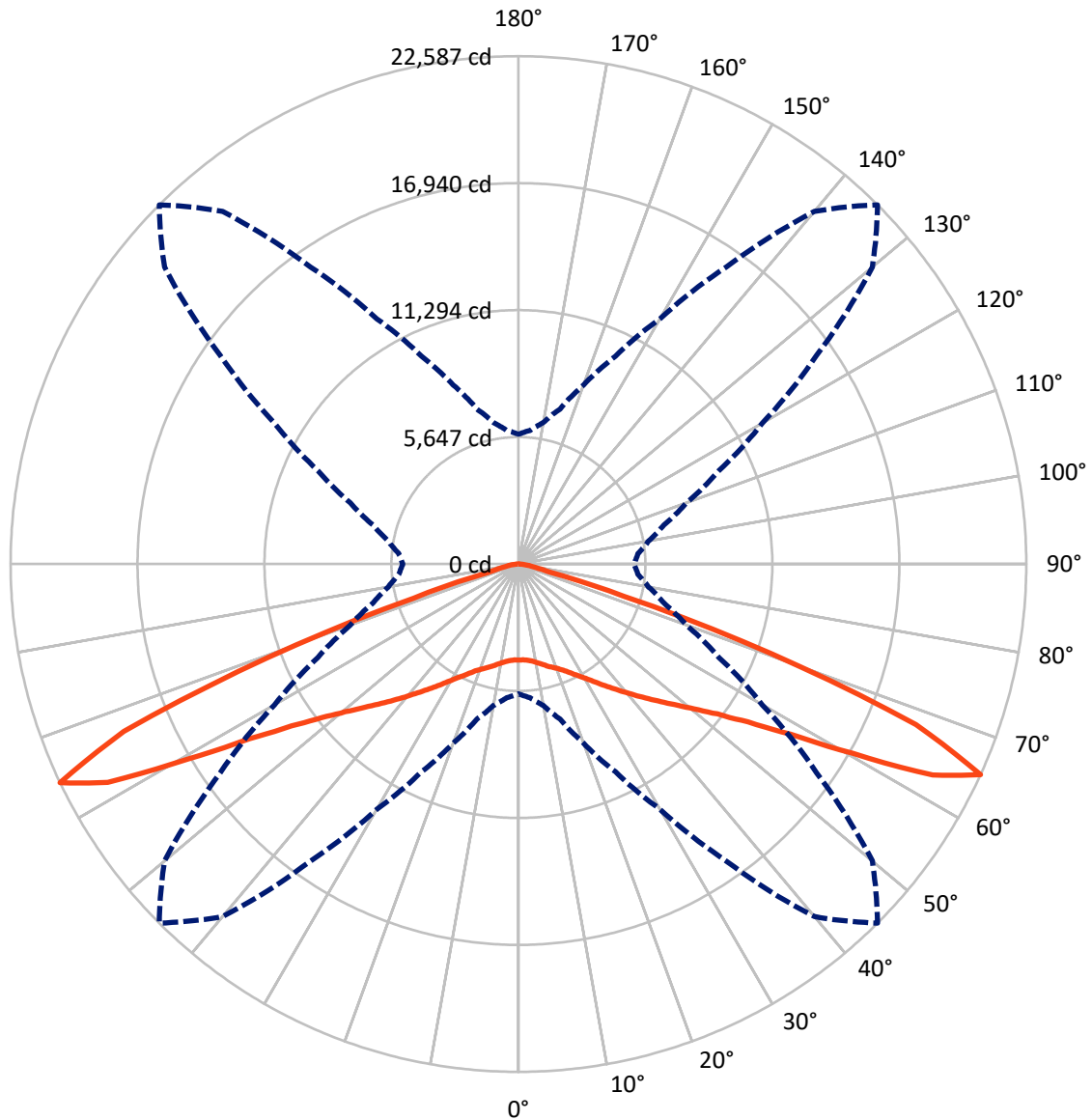
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 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	18865.5	0.0	18865.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18865.5	0.0	18865.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	37731.1	0.0	37731.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.1	1.1
10°-20°	1334.6	3.5
20°-30°	2495.4	6.6
30°-40°	4220.4	11.2
40°-50°	6900.8	18.3
50°-60°	10973.4	29.1
60°-70°	9919.2	26.3
70°-80°	1255.3	3.3
80°-90°	215.9	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°	37731.1	100.0
0°-180°	37731.1	100.0



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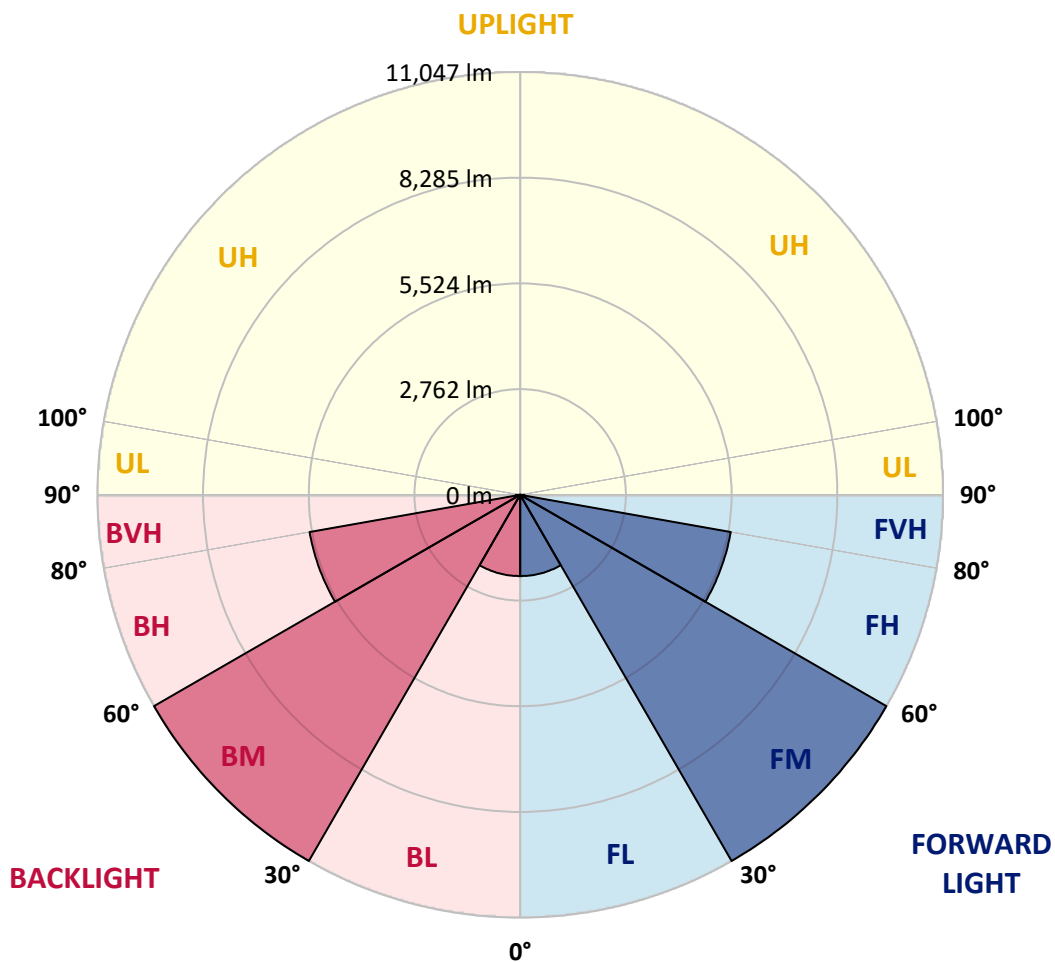
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2123.0	5.6			
FM	(30°-60°)	11047.3	29.3			
FH	(60°-80°)	5587.3	14.8			G3/7500
FVH	(80°-90°)	108.0	0.3			G2/225
BL	(0°-30°)	2123.0	5.6	B3/2500		
BM	(30°-60°)	11047.3	29.3	B5		
BH	(60°-80°)	5587.3	14.8	B5		G3/7500
BVH	(80°-90°)	108.0	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4269.3	4269.3	4269.3	4269.3	4269.3	4269.3	4269.3	4269.3	4269.3	4269.3	4269.3
2.5°	4272.8	4276.3	4279.9	4276.3	4279.9	4274.6	4271.0	4276.3	4271.0	4265.7	4269.3
5°	4310.0	4311.8	4311.8	4306.5	4311.8	4308.2	4302.9	4310.0	4304.7	4299.4	4302.9
7.5°	4371.8	4378.9	4373.6	4368.3	4371.8	4368.3	4364.8	4366.5	4364.8	4359.5	4361.2
10°	4454.9	4460.2	4456.6	4454.9	4458.4	4456.6	4453.1	4451.3	4453.1	4447.8	4447.8
12.5°	4555.6	4553.8	4552.0	4553.8	4559.1	4559.1	4557.3	4559.1	4562.6	4564.4	4560.9
15°	4654.5	4658.0	4658.0	4658.0	4668.6	4677.5	4682.8	4686.3	4693.4	4695.3	4688.1
17.5°	4778.3	4778.3	4776.5	4778.3	4788.9	4803.0	4808.3	4815.4	4822.5	4827.8	4818.9
20°	4916.1	4919.6	4919.6	4923.2	4937.3	4953.2	4953.2	4956.7	4953.2	4956.7	4951.4
22.5°	5083.9	5094.5	5094.5	5096.3	5110.5	5130.0	5124.7	5130.0	5121.1	5128.2	5121.1
25°	5303.1	5319.0	5315.5	5315.5	5326.1	5338.4	5340.2	5350.8	5349.0	5357.9	5352.6
27.5°	5550.4	5575.2	5582.2	5580.5	5587.5	5599.9	5603.4	5615.8	5608.7	5615.8	5612.3
30°	5847.2	5857.8	5872.0	5877.3	5886.1	5898.5	5898.5	5900.2	5891.4	5902.0	5907.3
32.5°	6154.7	6174.2	6188.3	6220.1	6236.0	6244.8	6243.1	6246.6	6237.8	6251.9	6262.5
35°	6561.2	6575.4	6598.3	6623.1	6644.3	6642.4	6637.1	6639.0	6639.0	6651.3	6661.9
37.5°	7050.6	7054.2	7084.3	7119.5	7130.1	7119.5	7087.7	7080.7	7064.8	7080.7	7098.3
40°	7568.5	7580.8	7641.0	7663.9	7669.2	7649.7	7603.9	7577.4	7541.9	7561.5	7586.1
42.5°	8110.9	8135.7	8190.4	8231.1	8248.7	8236.4	8172.8	8132.1	8086.3	8096.9	8121.5
45°	8711.8	8741.8	8819.6	8858.5	8892.1	8872.6	8810.8	8748.9	8676.4	8681.7	8720.6
47.5°	9383.2	9413.2	9513.9	9579.3	9597.1	9593.5	9524.5	9439.7	9340.8	9337.3	9370.8
50°	10136.0	10166.1	10291.5	10392.2	10443.5	10438.2	10356.9	10236.7	10116.6	10118.4	10160.8
52.5°	10871.2	10908.3	11039.0	11212.1	11313.0	11385.4	11335.9	11222.7	11076.1	11079.6	11118.5
55°	11560.3	11622.1	11772.4	12007.4	12194.8	12397.9	12456.3	12452.8	12364.4	12389.1	12428.0
57.5°	11894.3	11986.2	12217.7	12588.8	12970.4	13383.9	13733.8	13995.4	14106.8	14274.5	14235.7
60°	11261.7	11408.4	11749.4	12295.5	13049.9	13912.3	14836.4	15739.6	16509.9	17091.3	16757.3
62.5°	9220.7	9411.5	9825.0	10524.8	11666.4	13046.4	14815.2	16949.9	19275.4	20678.5	19676.6
65°	5769.5	5967.5	6388.0	7137.3	8473.3	10189.0	12588.8	16126.6	20471.7	22587.0	20547.7
67.5°	2249.5	2357.3	2585.2	3064.2	4067.9	5594.6	8003.2	12018.0	17214.9	19068.7	16895.1
70°	1127.5	1138.1	1180.5	1268.8	1484.4	1927.9	2933.3	5571.6	9872.7	11924.3	9517.5
72.5°	814.7	816.4	837.6	876.4	945.3	1044.4	1235.2	1705.3	3210.8	4907.3	3009.3
75°	623.9	630.9	643.2	664.4	701.5	751.1	820.0	982.4	1217.6	1411.9	1187.5
77.5°	480.7	494.7	503.6	523.1	546.0	579.5	599.0	661.0	768.7	809.4	796.9
80°	365.8	378.1	397.6	413.5	429.4	445.3	438.3	466.5	523.1	556.6	539.0
82.5°	233.3	247.5	303.9	318.1	325.1	335.7	323.4	325.1	349.9	371.1	349.9
85°	150.1	159.0	192.5	210.4	212.1	219.1	213.8	201.4	201.4	183.8	206.8
87.5°	68.9	70.6	86.5	102.4	106.0	95.4	93.7	90.1	72.5	68.9	74.2
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°	4269.3	4269.3	4269.3	4269.3	4269.3	4269.3	4269.3	4269.3
2.5°	4267.5	4271.0	4272.8	4278.1	4279.9	4279.9	4281.6	4285.2
5°	4301.2	4306.5	4308.2	4315.3	4317.1	4315.3	4318.8	4320.6
7.5°	4361.2	4370.1	4373.6	4380.7	4375.4	4382.4	4384.2	4384.2
10°	4449.6	4458.4	4460.2	4467.2	4463.7	4467.2	4467.2	4463.7
12.5°	4566.2	4567.9	4562.6	4567.9	4560.9	4564.4	4559.1	4555.6
15°	4695.3	4689.8	4677.5	4677.5	4666.9	4668.6	4666.9	4665.1
17.5°	4820.7	4810.1	4801.3	4797.7	4788.9	4787.1	4781.8	4781.8
20°	4958.5	4953.2	4947.9	4940.8	4932.0	4923.2	4921.4	4924.9
22.5°	5124.7	5122.9	5122.9	5119.4	5107.0	5098.1	5092.8	5092.8
25°	5347.3	5331.4	5331.4	5329.6	5324.3	5319.0	5308.4	5313.7
27.5°	5598.1	5589.3	5596.4	5594.6	5589.3	5589.3	5582.2	5582.2
30°	5907.3	5903.8	5914.4	5905.5	5887.9	5886.1	5879.0	5870.2
32.5°	6264.3	6260.7	6276.6	6266.0	6237.8	6221.9	6207.7	6200.7
35°	6661.9	6663.6	6683.1	6676.1	6644.3	6633.7	6608.9	6605.3
37.5°	7096.6	7124.8	7158.6	7165.6	7139.0	7132.0	7105.5	7091.3
40°	7607.3	7644.4	7695.7	7708.0	7679.8	7674.5	7637.4	7617.9
42.5°	8151.6	8215.2	8278.8	8289.4	8261.2	8232.8	8197.6	8183.4
45°	8759.5	8835.5	8918.6	8939.8	8897.4	8863.8	8817.9	8817.9
47.5°	9441.5	9536.9	9630.6	9688.9	9650.1	9614.7	9559.9	9524.5
50°	10247.3	10378.1	10500.1	10560.1	10498.3	10431.2	10335.7	10303.9
52.5°	11258.2	11399.5	11505.5	11473.7	11378.3	11284.7	11180.3	11137.9
55°	12548.2	12595.9	12595.9	12475.8	12284.9	12127.6	11963.2	11908.4
57.5°	14161.5	13977.6	13695.0	13336.2	12885.6	12493.4	12228.3	12102.9
60°	16057.6	15174.0	14175.7	13194.8	12389.1	11724.7	11330.6	11150.3
62.5°	17320.9	15009.7	13009.3	11434.9	10275.6	9475.1	8930.9	8718.8
65°	16188.4	12518.2	9839.1	7955.4	6692.0	5877.3	5338.4	5140.6
67.5°	11857.2	7844.1	5239.5	3755.1	2751.4	2194.6	1973.8	1881.9
70°	5322.5	2762.0	1692.9	1321.8	1139.8	1046.2	1005.5	991.3
72.5°	1604.6	1161.0	979.0	883.6	811.1	765.1	731.6	728.0
75°	968.4	805.8	715.7	659.1	613.3	576.1	558.3	553.0
77.5°	676.9	592.0	549.6	508.9	473.5	445.3	429.4	417.1
80°	475.4	434.7	415.2	392.3	369.4	342.9	319.8	309.2
82.5°	318.1	309.2	309.2	295.2	275.7	250.9	205.1	194.4
85°	205.1	203.1	206.8	201.4	187.2	160.7	132.5	125.5
87.5°	95.4	97.1	107.7	106.0	102.4	84.8	67.2	63.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)