

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: P190855

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190855
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 44425.7 lumens
Efficiency: N/A
Efficacy: 113.6 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

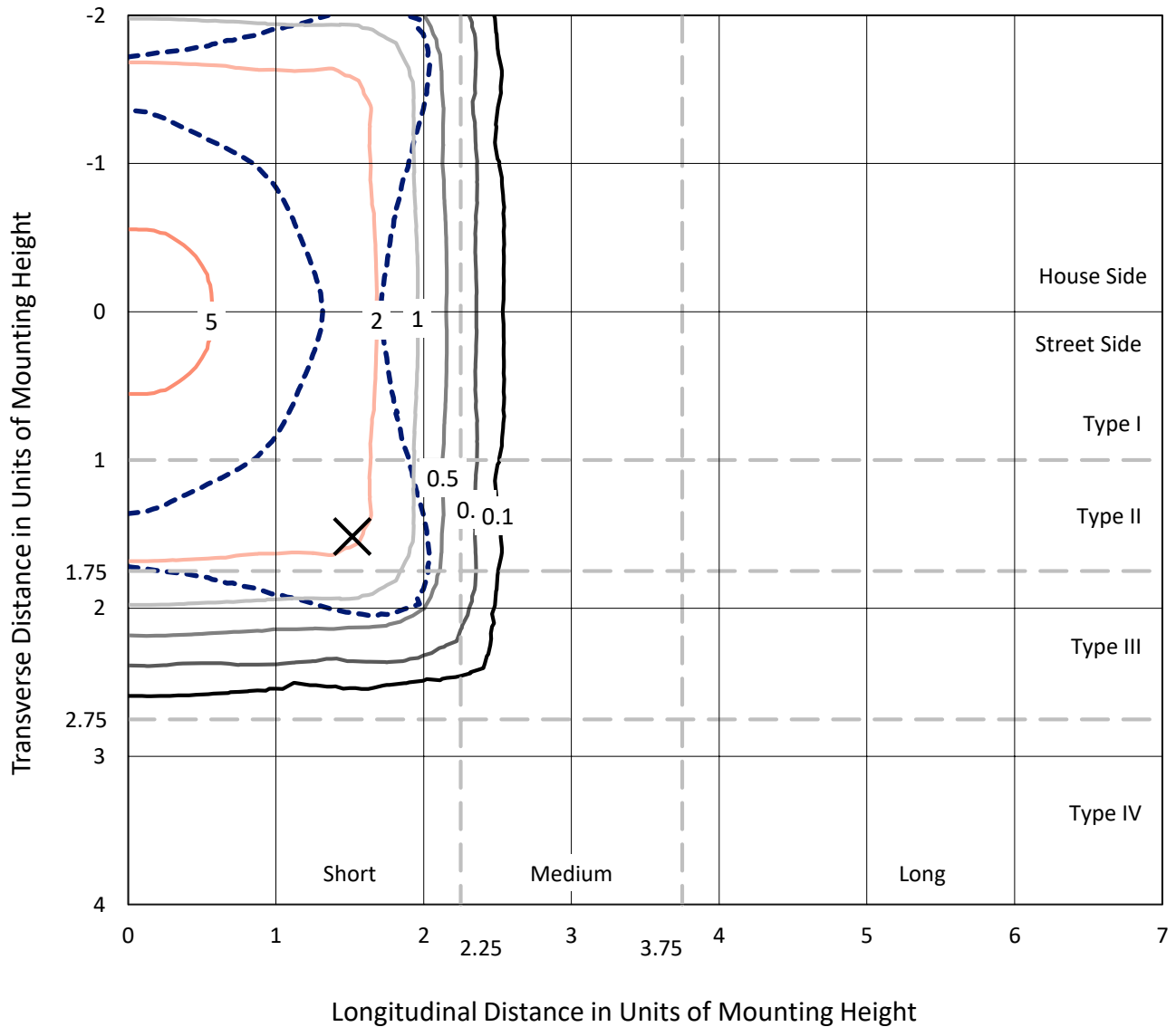
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

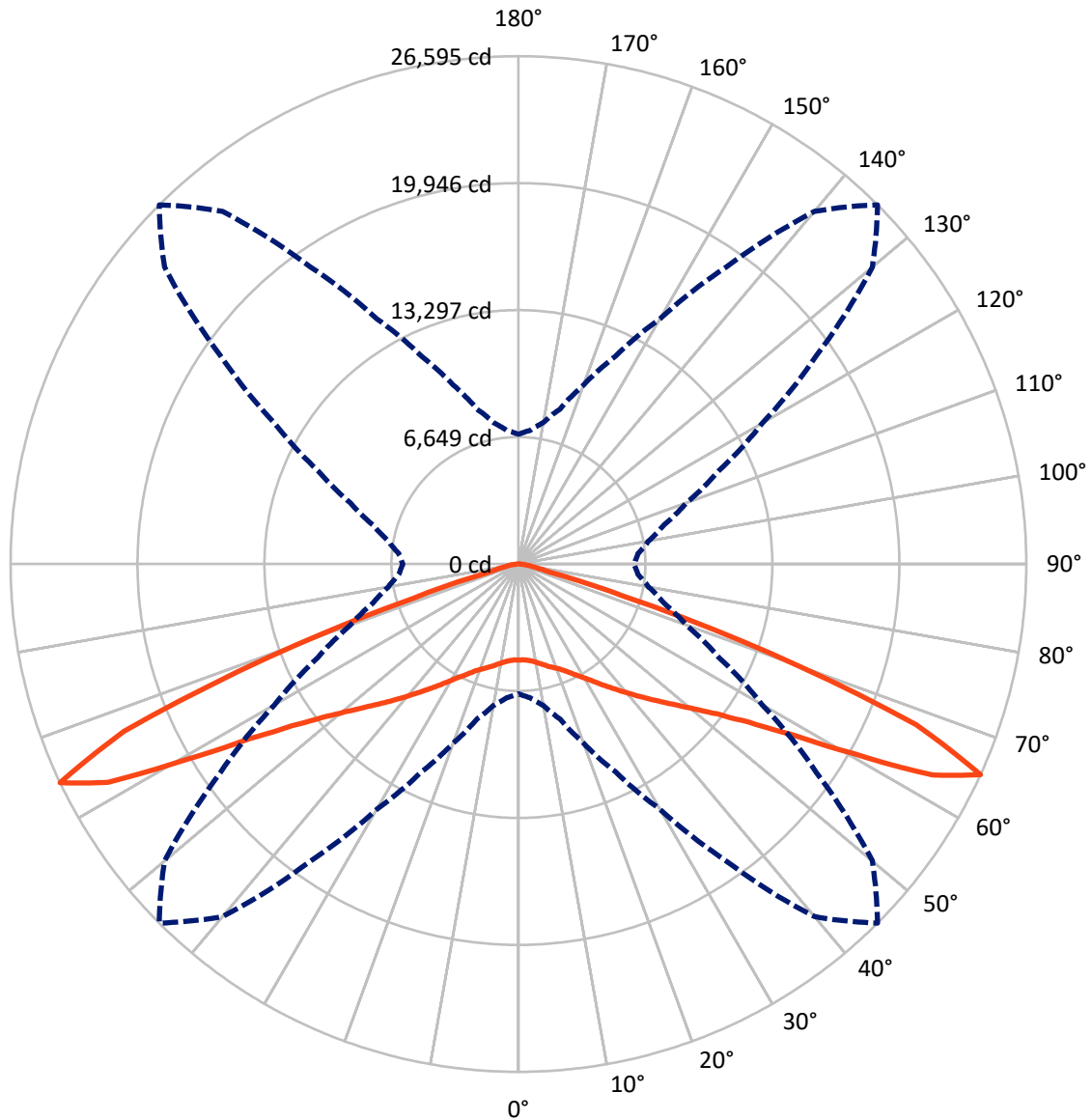
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 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	22212.9	0.0	22212.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22212.9	0.0	22212.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	44425.7	0.0	44425.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.0	1.1
10°-20°	1571.4	3.5
20°-30°	2938.1	6.6
30°-40°	4969.2	11.2
40°-50°	8125.2	18.3
50°-60°	12920.4	29.1
60°-70°	11679.2	26.3
70°-80°	1478.1	3.3
80°-90°	254.2	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°	44425.7	100.0
0°-180°	44425.7	100.0



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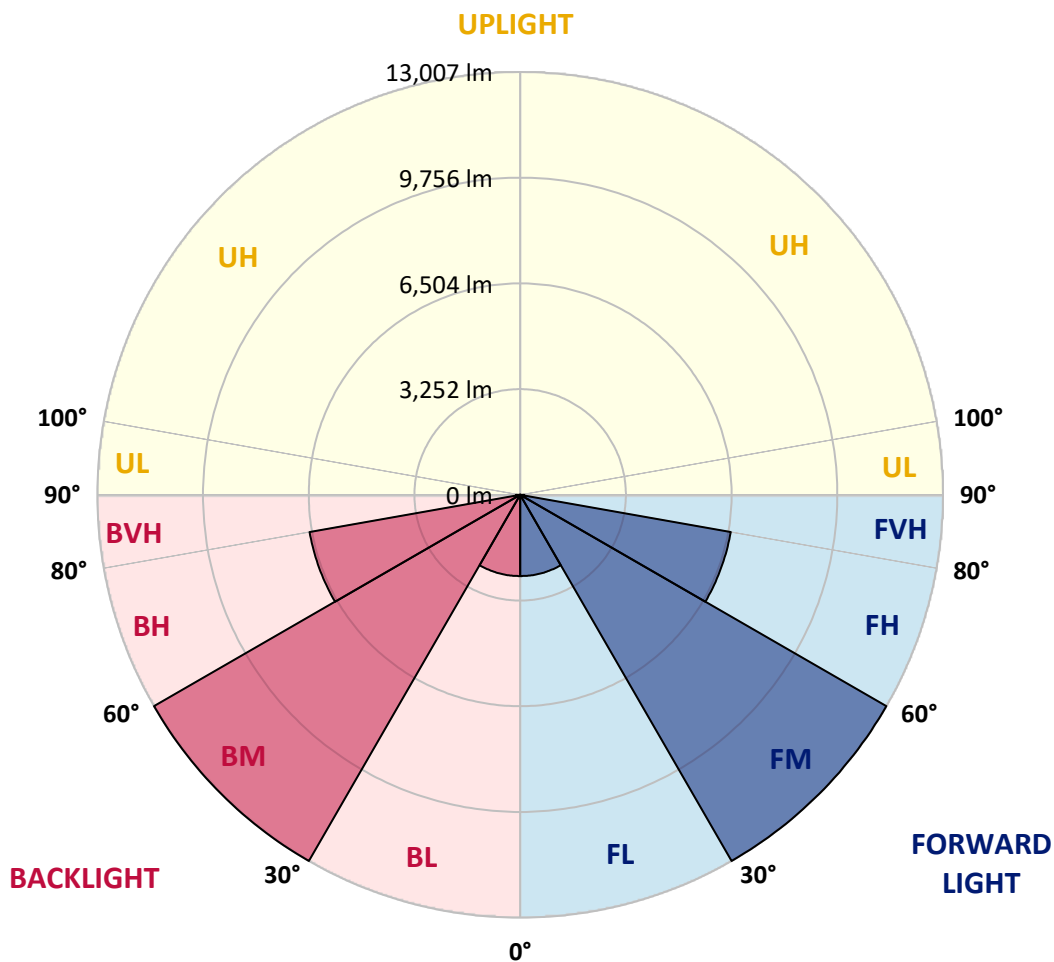
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2499.7	5.6			
FM	(30°-60°)	13007.4	29.3			
FH	(60°-80°)	6578.6	14.8			G3/7500
FVH	(80°-90°)	127.1	0.3			G2/225
BL	(0°-30°)	2499.7	5.6	B3/2500		
BM	(30°-60°)	13007.4	29.3	B5		
BH	(60°-80°)	6578.6	14.8	B5		G3/7500
BVH	(80°-90°)	127.1	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°	5026.8	5026.8	5026.8	5026.8	5026.8	5026.8	5026.8	5026.8	5026.8	5026.8	5026.8
2.5°	5031.0	5035.2	5039.3	5035.2	5039.3	5033.0	5028.8	5035.2	5028.8	5022.6	5026.8
5°	5074.7	5076.7	5076.7	5070.5	5076.7	5072.6	5066.4	5074.7	5068.4	5062.2	5066.4
7.5°	5147.5	5155.8	5149.5	5143.3	5147.5	5143.3	5139.1	5141.2	5139.1	5132.9	5135.0
10°	5245.3	5251.5	5247.3	5245.3	5249.4	5247.3	5243.1	5241.1	5243.1	5236.9	5236.9
12.5°	5363.8	5361.8	5359.6	5361.8	5368.0	5368.0	5365.9	5368.0	5372.1	5374.3	5370.1
15°	5480.4	5484.6	5484.6	5484.6	5497.0	5507.5	5513.7	5517.8	5526.2	5528.2	5519.9
17.5°	5626.0	5626.0	5624.0	5626.0	5638.5	5655.2	5661.4	5669.7	5678.0	5684.2	5673.9
20°	5788.3	5792.5	5792.5	5796.7	5813.2	5832.0	5832.0	5836.1	5832.0	5836.1	5829.9
22.5°	5986.0	5998.5	5998.5	6000.5	6017.2	6040.0	6033.8	6040.0	6029.7	6038.0	6029.7
25°	6244.0	6262.7	6258.5	6258.5	6271.0	6285.6	6287.7	6300.1	6298.1	6308.4	6302.2
27.5°	6535.2	6564.4	6572.7	6570.6	6578.9	6593.5	6597.6	6612.3	6603.9	6612.3	6608.1
30°	6884.8	6897.2	6913.9	6920.2	6930.6	6945.1	6945.1	6947.2	6936.8	6949.3	6955.6
32.5°	7246.8	7269.7	7286.4	7323.8	7342.5	7353.0	7350.8	7355.0	7344.6	7361.3	7373.7
35°	7725.3	7742.0	7769.1	7798.2	7823.1	7821.1	7814.8	7816.9	7816.9	7831.5	7844.0
37.5°	8301.7	8305.8	8341.2	8382.9	8395.4	8382.9	8345.4	8337.0	8318.3	8337.0	8357.9
40°	8911.3	8925.9	8996.6	9023.7	9029.9	9007.1	8953.0	8921.8	8880.1	8903.0	8932.1
42.5°	9550.1	9579.2	9643.7	9691.5	9712.4	9697.8	9622.9	9575.0	9520.9	9533.4	9562.5
45°	10257.5	10292.8	10384.4	10430.2	10469.7	10446.8	10374.1	10301.2	10215.9	10222.1	10267.9
47.5°	11048.2	11083.5	11202.1	11279.1	11299.9	11295.7	11214.6	11114.7	10998.2	10994.1	11033.5
50°	11934.5	11969.9	12117.6	12236.1	12296.5	12290.2	12194.6	12053.1	11911.5	11913.7	11963.6
52.5°	12800.0	12843.8	12997.7	13201.6	13320.1	13405.5	13347.3	13214.1	13041.4	13045.5	13091.3
55°	13611.5	13684.3	13861.2	14137.9	14358.4	14597.7	14666.4	14662.2	14558.1	14587.3	14633.0
57.5°	14004.7	14112.9	14385.5	14822.4	15271.8	15758.7	16170.6	16478.6	16609.7	16807.3	16761.6
60°	13259.8	13432.6	13834.1	14477.0	15365.4	16380.8	17468.9	18532.2	19439.3	20123.8	19730.6
62.5°	10856.7	11081.4	11568.2	12392.2	13736.3	15361.2	17444.0	19957.4	22695.5	24347.5	23167.8
65°	6793.2	7026.2	7521.5	8403.6	9976.6	11996.9	14822.4	18987.8	24104.1	26594.6	24193.5
67.5°	2648.6	2775.6	3044.0	3607.8	4789.6	6587.3	9423.1	14150.4	20269.5	22452.0	19892.9
70°	1327.5	1340.0	1389.9	1493.9	1747.7	2269.9	3453.9	6560.2	11624.5	14040.1	11206.2
72.5°	959.1	961.3	986.2	1032.0	1113.2	1229.7	1454.3	2007.8	3780.5	5777.9	3543.3
75°	734.5	742.8	757.4	782.4	826.0	884.2	965.5	1156.9	1433.6	1662.4	1398.2
77.5°	565.9	582.6	593.0	615.8	642.9	682.4	705.3	778.2	905.1	952.9	938.4
80°	430.7	445.3	468.1	486.8	505.5	524.4	516.0	549.3	615.8	655.4	634.6
82.5°	274.7	291.3	357.8	374.5	382.8	395.3	380.7	382.8	411.9	436.9	411.9
85°	176.9	187.3	226.8	247.6	249.7	258.0	251.7	237.2	237.2	216.4	243.5
87.5°	81.1	83.3	102.0	120.7	124.8	112.3	110.3	106.1	85.3	81.1	87.4
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°	5026.8	5026.8	5026.8	5026.8	5026.8	5026.8	5026.8	5026.8
2.5°	5024.7	5028.8	5031.0	5037.2	5039.3	5039.3	5041.4	5045.5
5°	5064.2	5070.5	5072.6	5080.9	5082.9	5080.9	5085.1	5087.1
7.5°	5135.0	5145.3	5149.5	5157.9	5151.7	5160.0	5162.0	5162.0
10°	5239.0	5249.4	5251.5	5259.8	5255.6	5259.8	5259.8	5255.6
12.5°	5376.3	5378.5	5372.1	5378.5	5370.1	5374.3	5368.0	5363.8
15°	5528.2	5522.0	5507.5	5507.5	5495.0	5497.0	5495.0	5492.8
17.5°	5675.9	5663.5	5653.0	5648.9	5638.5	5636.5	5630.2	5630.2
20°	5838.3	5832.0	5825.8	5817.4	5807.0	5796.7	5794.5	5798.7
22.5°	6033.8	6031.7	6031.7	6027.5	6013.0	6002.6	5996.3	5996.3
25°	6296.0	6277.2	6277.2	6275.2	6268.9	6262.7	6250.2	6256.5
27.5°	6591.4	6581.1	6589.3	6587.3	6581.1	6581.1	6572.7	6572.7
30°	6955.6	6951.4	6963.8	6953.4	6932.6	6930.6	6922.2	6911.9
32.5°	7375.8	7371.7	7390.4	7377.9	7344.6	7325.9	7309.3	7300.9
35°	7844.0	7846.0	7868.9	7860.6	7823.1	7810.6	7781.6	7777.4
37.5°	8355.8	8389.1	8428.6	8437.0	8405.7	8397.4	8366.2	8349.5
40°	8957.1	9000.8	9061.1	9075.7	9042.4	9036.1	8992.5	8969.5
42.5°	9597.9	9672.8	9747.7	9760.2	9726.9	9693.7	9652.1	9635.4
45°	10313.7	10403.1	10500.9	10525.9	10475.9	10436.5	10382.3	10382.3
47.5°	11116.8	11229.1	11339.4	11408.0	11362.3	11320.7	11256.2	11214.6
50°	12065.6	12219.6	12363.1	12433.9	12361.0	12282.0	12169.6	12132.1
52.5°	13255.7	13422.1	13546.9	13509.5	13397.2	13286.9	13164.1	13114.2
55°	14774.6	14830.7	14830.7	14689.3	14464.5	14279.4	14085.8	14021.4
57.5°	16674.1	16457.7	16124.9	15702.5	15171.9	14710.0	14397.9	14250.2
60°	18906.7	17866.3	16690.8	15536.1	14587.3	13804.9	13341.0	13128.8
62.5°	20394.3	17672.8	15317.6	13463.8	12098.8	11156.3	10515.5	10265.8
65°	19060.6	14739.2	11584.9	9367.0	7879.4	6920.2	6285.6	6052.6
67.5°	13961.0	9235.9	6169.1	4421.3	3239.6	2584.2	2324.0	2215.9
70°	6266.8	3252.1	1993.2	1556.3	1342.0	1231.7	1183.9	1167.2
72.5°	1889.2	1367.0	1152.7	1040.3	955.0	900.9	861.4	857.2
75°	1140.2	948.8	842.6	776.1	722.0	678.3	657.5	651.2
77.5°	796.9	697.0	647.1	599.2	557.6	524.4	505.5	491.0
80°	559.7	511.9	489.0	461.9	434.9	403.7	376.5	364.1
82.5°	374.5	364.1	364.1	347.5	324.6	295.4	241.3	228.8
85°	241.3	239.3	243.5	237.2	220.5	189.3	156.0	147.7
87.5°	112.3	114.5	126.9	124.8	120.7	99.8	79.1	74.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)