

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: P299366

Luminaire Tested: **GLNA-AF-06-LED-E1-5NQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299366
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: GLNA-AF-06-LED-E1-5NQ-7030
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35400.1 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

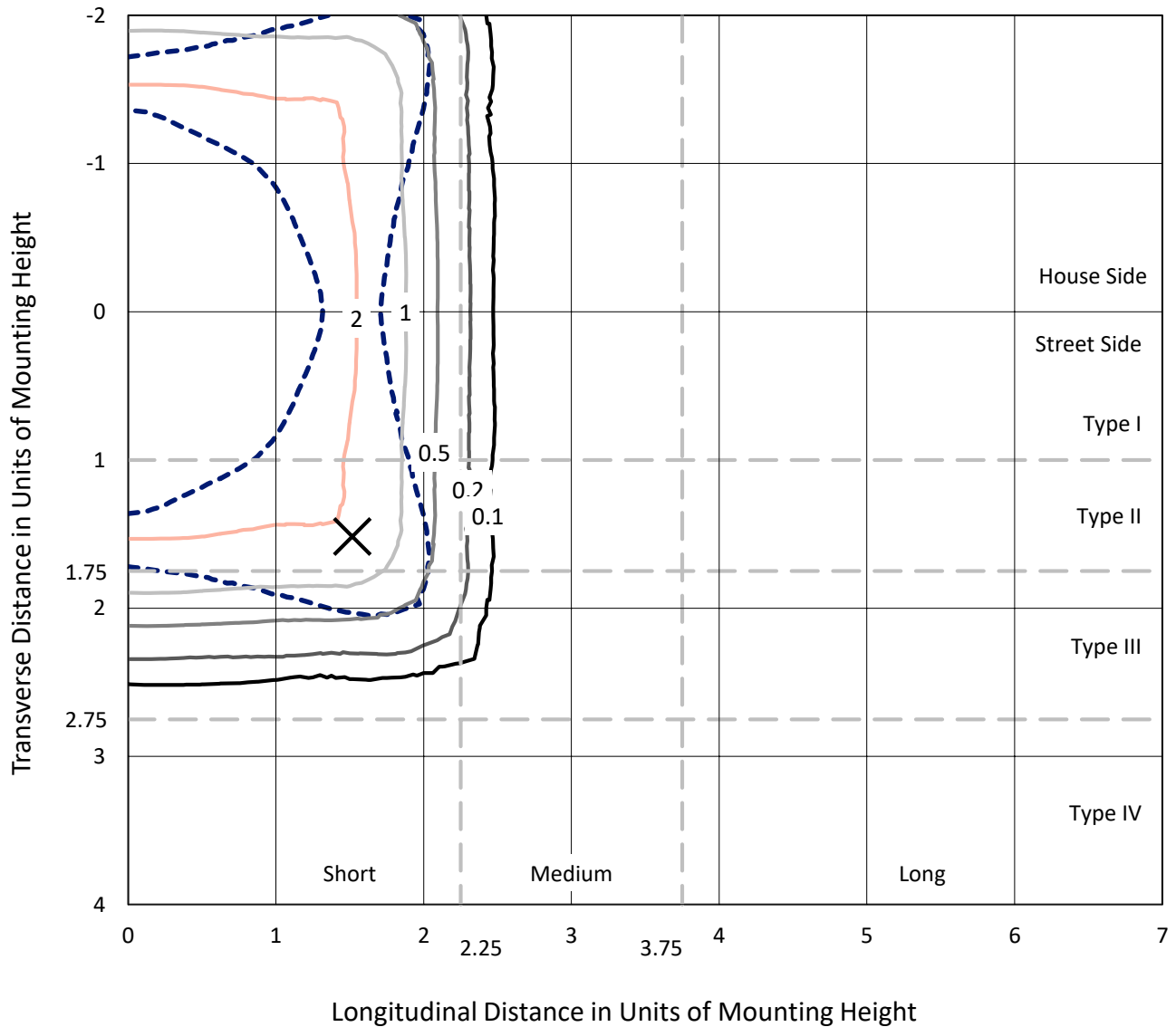
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

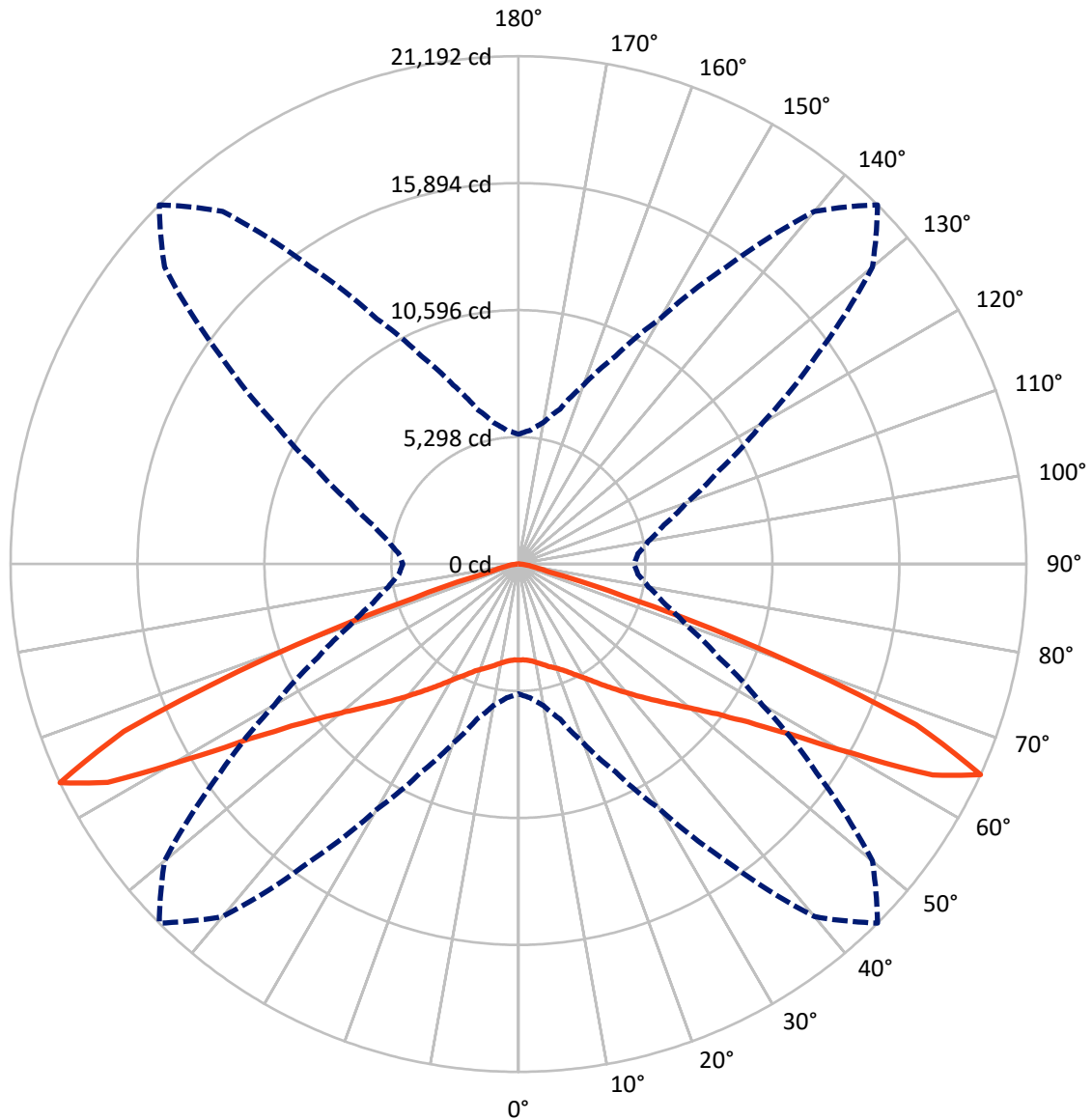
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 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	17700.0	0.0	17700.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17700.0	0.0	17700.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35400.1	0.0	35400.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.4	1.1
10°-20°	1252.1	3.5
20°-30°	2341.2	6.6
30°-40°	3959.7	11.2
40°-50°	6474.5	18.3
50°-60°	10295.4	29.1
60°-70°	9306.4	26.3
70°-80°	1177.8	3.3
80°-90°	202.6	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°	35400.1	100.0
0°-180°	35400.1	100.0



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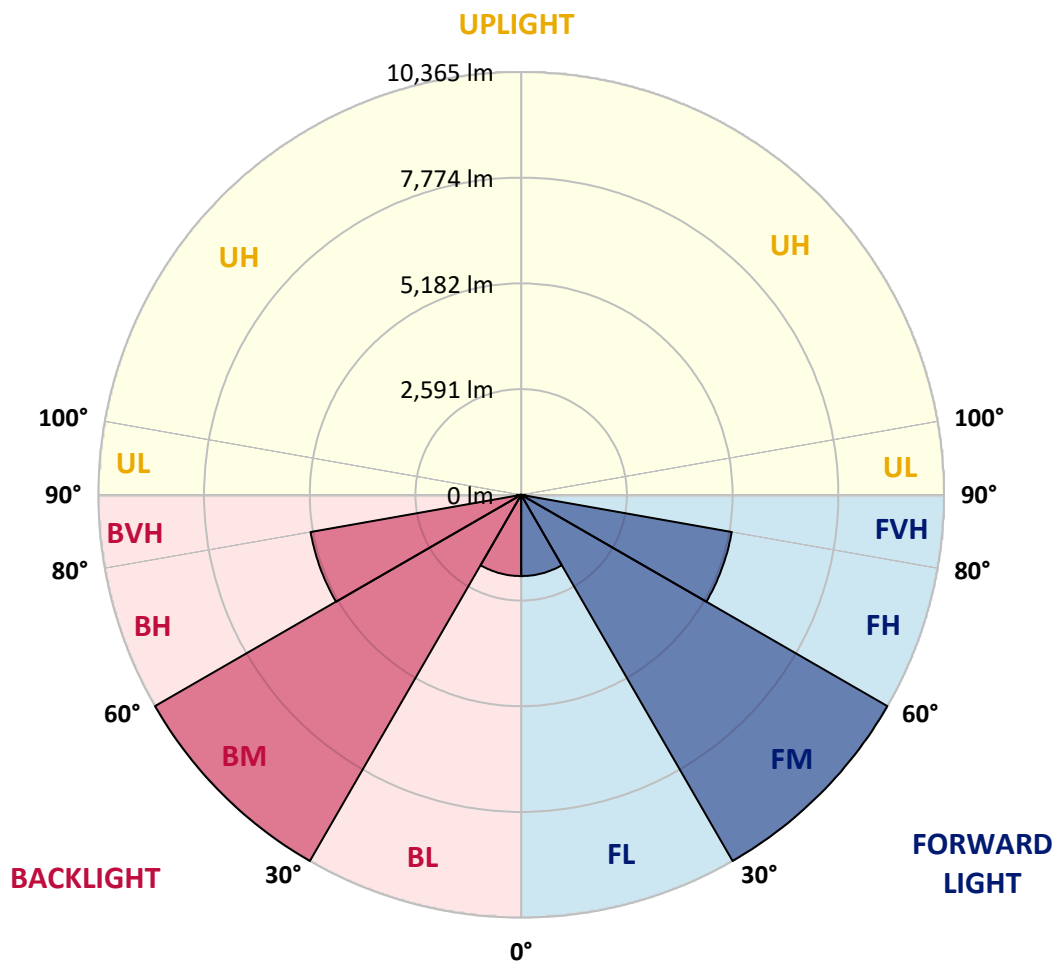
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1991.9	5.6			
FM	(30°-60°)	10364.8	29.3			
FH	(60°-80°)	5242.1	14.8			G3/7500
FVH	(80°-90°)	101.3	0.3			G2/225
BL	(0°-30°)	1991.9	5.6	B3/2500		
BM	(30°-60°)	10364.8	29.3	B5		
BH	(60°-80°)	5242.1	14.8	B5		G3/7500
BVH	(80°-90°)	101.3	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°	4005.5	4005.5	4005.5	4005.5	4005.5	4005.5	4005.5	4005.5	4005.5	4005.5	4005.5
2.5°	4008.9	4012.2	4015.5	4012.2	4015.5	4010.5	4007.2	4012.2	4007.2	4002.2	4005.5
5°	4043.7	4045.3	4045.3	4040.4	4045.3	4042.0	4037.0	4043.7	4038.7	4033.7	4037.0
7.5°	4101.7	4108.3	4103.4	4098.4	4101.7	4098.4	4095.1	4096.7	4095.1	4090.1	4091.7
10°	4179.6	4184.6	4181.3	4179.6	4182.9	4181.3	4178.0	4176.3	4178.0	4173.0	4173.0
12.5°	4274.1	4272.5	4270.8	4272.5	4277.4	4277.4	4275.8	4277.4	4280.8	4282.4	4279.1
15°	4367.0	4370.3	4370.3	4370.3	4380.2	4388.5	4393.5	4396.8	4403.4	4405.1	4398.5
17.5°	4483.0	4483.0	4481.4	4483.0	4493.0	4506.2	4511.2	4517.8	4524.5	4529.4	4521.1
20°	4612.3	4615.7	4615.7	4619.0	4632.2	4647.2	4647.2	4650.5	4647.2	4650.5	4645.5
22.5°	4769.8	4779.8	4779.8	4781.4	4794.7	4812.9	4808.0	4812.9	4804.7	4811.3	4804.7
25°	4975.4	4990.3	4987.0	4987.0	4997.0	5008.6	5010.2	5020.2	5018.5	5026.8	5021.8
27.5°	5207.5	5230.7	5237.4	5235.7	5242.3	5253.9	5257.3	5268.9	5262.2	5268.9	5265.6
30°	5486.1	5496.0	5509.3	5514.2	5522.5	5534.1	5534.1	5535.8	5527.5	5537.5	5542.4
32.5°	5774.5	5792.8	5806.0	5835.9	5850.8	5859.1	5857.4	5860.7	5852.5	5865.7	5875.7
35°	6155.9	6169.1	6190.7	6213.9	6233.8	6232.1	6227.1	6228.8	6228.8	6240.4	6250.4
37.5°	6615.1	6618.4	6646.6	6679.8	6689.7	6679.8	6649.9	6643.3	6628.4	6643.3	6659.9
40°	7100.9	7112.5	7168.8	7190.4	7195.4	7177.1	7134.0	7109.2	7076.0	7094.2	7117.5
42.5°	7609.9	7633.1	7684.5	7722.6	7739.2	7727.6	7667.9	7629.7	7586.6	7596.6	7619.8
45°	8173.5	8201.7	8274.7	8311.2	8342.7	8324.4	8266.4	8208.4	8140.4	8145.4	8181.8
47.5°	8803.6	8831.7	8926.2	8987.6	9004.2	9000.8	8936.2	8856.6	8763.8	8760.5	8792.0
50°	9509.8	9538.0	9655.7	9750.2	9798.3	9793.3	9717.1	9604.3	9491.6	9493.3	9533.0
52.5°	10199.5	10234.3	10357.0	10519.5	10614.0	10682.0	10635.6	10529.5	10391.8	10395.2	10431.6
55°	10846.1	10904.1	11045.1	11265.6	11441.3	11632.0	11686.7	11683.4	11600.5	11623.7	11660.2
57.5°	11159.5	11245.7	11462.9	11811.0	12169.1	12557.1	12885.4	13130.7	13235.2	13392.7	13356.2
60°	10565.9	10703.5	11023.5	11535.8	12243.7	13052.8	13919.9	14767.1	15489.9	16035.4	15722.1
62.5°	8651.0	8830.1	9218.0	9874.6	10945.6	12240.4	13900.0	15902.8	18084.6	19401.0	18460.9
65°	5413.1	5598.8	5993.4	6696.3	7949.7	9559.6	11811.0	15130.2	19207.0	21191.5	19278.3
67.5°	2110.5	2211.7	2425.5	2874.8	3816.5	5249.0	7508.7	11275.5	16151.5	17890.6	15851.4
70°	1057.8	1067.7	1107.5	1190.4	1392.7	1808.8	2752.1	5227.4	9262.8	11187.6	8929.6
72.5°	764.3	766.0	785.9	822.3	887.0	979.8	1158.9	1599.9	3012.4	4604.0	2823.4
75°	585.2	591.9	603.5	623.4	658.2	704.6	769.3	921.8	1142.3	1324.7	1114.1
77.5°	451.0	464.2	472.5	490.7	512.3	543.8	562.0	620.1	721.2	759.3	747.7
80°	343.2	354.8	373.0	388.0	402.9	417.8	411.2	437.7	490.7	522.2	505.7
82.5°	218.8	232.1	285.2	298.4	305.1	315.0	303.4	305.1	328.3	348.2	328.3
85°	140.9	149.2	180.7	197.3	199.0	205.6	200.6	189.0	189.0	172.4	194.0
87.5°	64.7	66.3	81.2	96.2	99.5	89.5	87.9	84.6	68.0	64.7	69.6
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°	4005.5	4005.5	4005.5	4005.5	4005.5	4005.5	4005.5	4005.5
2.5°	4003.9	4007.2	4008.9	4013.8	4015.5	4015.5	4017.1	4020.5
5°	4035.4	4040.4	4042.0	4048.6	4050.3	4048.6	4052.0	4053.6
7.5°	4091.7	4100.0	4103.4	4110.0	4105.0	4111.6	4113.3	4113.3
10°	4174.6	4182.9	4184.6	4191.2	4187.9	4191.2	4191.2	4187.9
12.5°	4284.1	4285.7	4280.8	4285.7	4279.1	4282.4	4277.4	4274.1
15°	4405.1	4400.1	4388.5	4388.5	4378.6	4380.2	4378.6	4376.9
17.5°	4522.8	4512.9	4504.6	4501.3	4493.0	4491.3	4486.3	4486.3
20°	4652.1	4647.2	4642.2	4635.5	4627.3	4619.0	4617.3	4620.6
22.5°	4808.0	4806.3	4806.3	4803.0	4791.4	4783.1	4778.1	4778.1
25°	5016.9	5001.9	5001.9	5000.3	4995.3	4990.3	4980.4	4985.4
27.5°	5252.3	5244.0	5250.6	5249.0	5244.0	5244.0	5237.4	5237.4
30°	5542.4	5539.1	5549.1	5540.8	5524.2	5522.5	5515.9	5507.6
32.5°	5877.3	5874.0	5888.9	5879.0	5852.5	5837.5	5824.3	5817.6
35°	6250.4	6252.0	6270.3	6263.6	6233.8	6223.8	6200.6	6197.3
37.5°	6658.2	6684.7	6716.2	6722.9	6698.0	6691.4	6666.5	6653.2
40°	7137.3	7172.2	7220.2	7231.8	7205.3	7200.3	7165.5	7147.3
42.5°	7648.0	7707.7	7767.4	7777.3	7750.8	7724.3	7691.1	7677.8
45°	8218.3	8289.6	8367.5	8387.4	8347.6	8316.1	8273.0	8273.0
47.5°	8858.3	8947.8	9035.7	9090.4	9053.9	9020.7	8969.3	8936.2
50°	9614.3	9737.0	9851.4	9907.7	9849.7	9786.7	9697.2	9667.3
52.5°	10562.6	10695.2	10794.7	10764.9	10675.3	10587.5	10489.7	10449.9
55°	11772.9	11817.7	11817.7	11704.9	11525.9	11378.3	11224.1	11172.7
57.5°	13286.6	13114.2	12848.9	12512.3	12089.6	11721.5	11472.8	11355.1
60°	15065.5	14236.6	13299.8	12379.7	11623.7	11000.3	10630.6	10461.5
62.5°	16250.9	14082.4	12205.6	10728.4	9640.8	8889.8	8379.1	8180.2
65°	15188.2	11744.7	9231.3	7464.0	6278.5	5514.2	5008.6	4822.9
67.5°	11124.6	7359.5	4915.7	3523.1	2581.4	2059.1	1851.9	1765.7
70°	4993.7	2591.3	1588.3	1240.1	1069.4	981.5	943.4	930.1
72.5°	1505.4	1089.3	918.5	829.0	761.0	717.9	686.4	683.1
75°	908.5	756.0	671.5	618.4	575.3	540.5	523.9	518.9
77.5°	635.0	555.4	515.6	477.5	444.3	417.8	402.9	391.3
80°	446.0	407.8	389.6	368.1	346.5	321.6	300.1	290.1
82.5°	298.4	290.1	290.1	276.9	258.6	235.4	192.3	182.4
85°	192.3	190.7	194.0	189.0	175.7	150.9	124.3	117.7
87.5°	89.5	91.2	101.1	99.5	96.2	79.6	63.0	59.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)