

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: P299906

Luminaire Tested: **GLNA-AF-06-LED-E1-SL3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299906
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27726.9 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

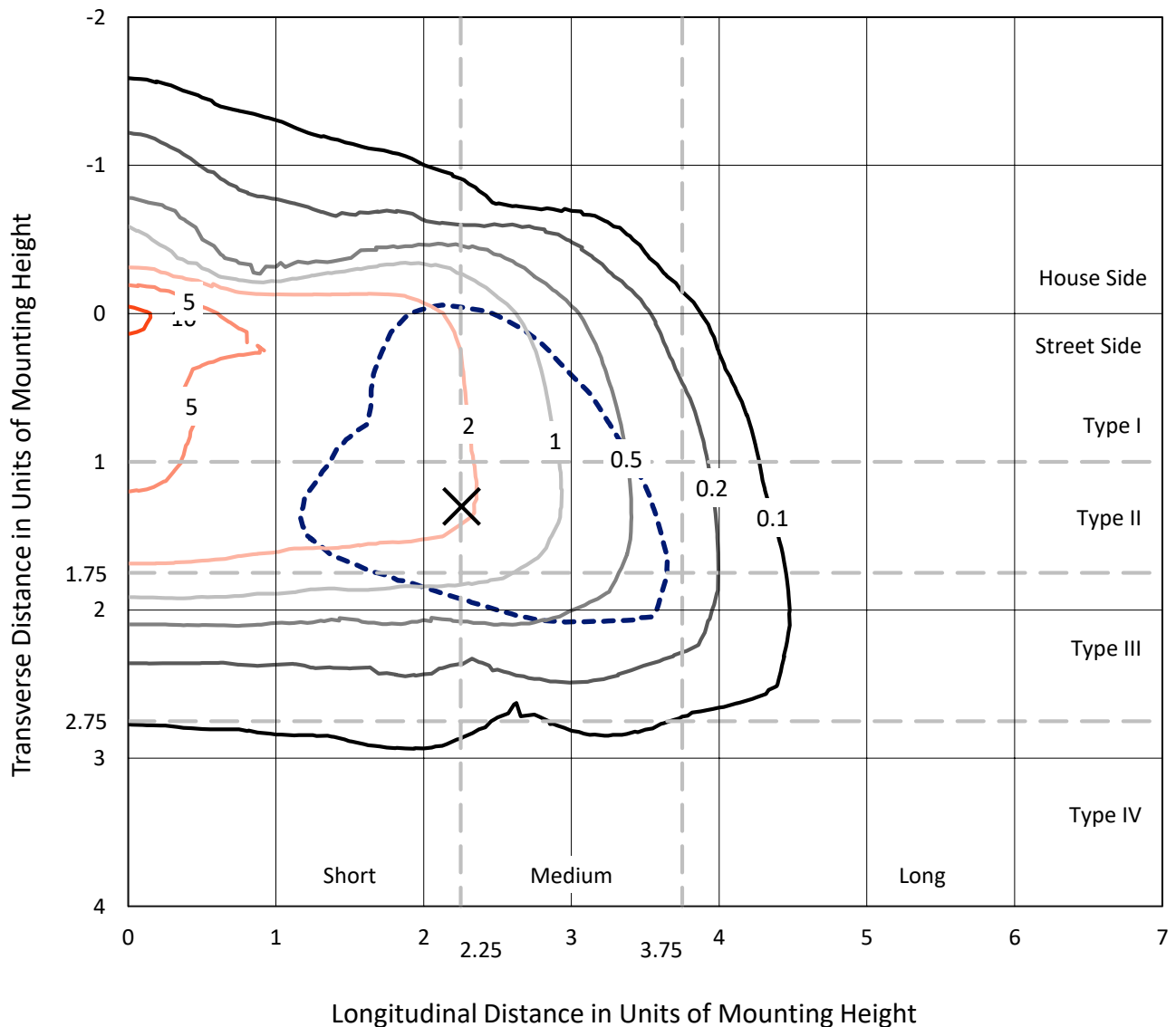
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

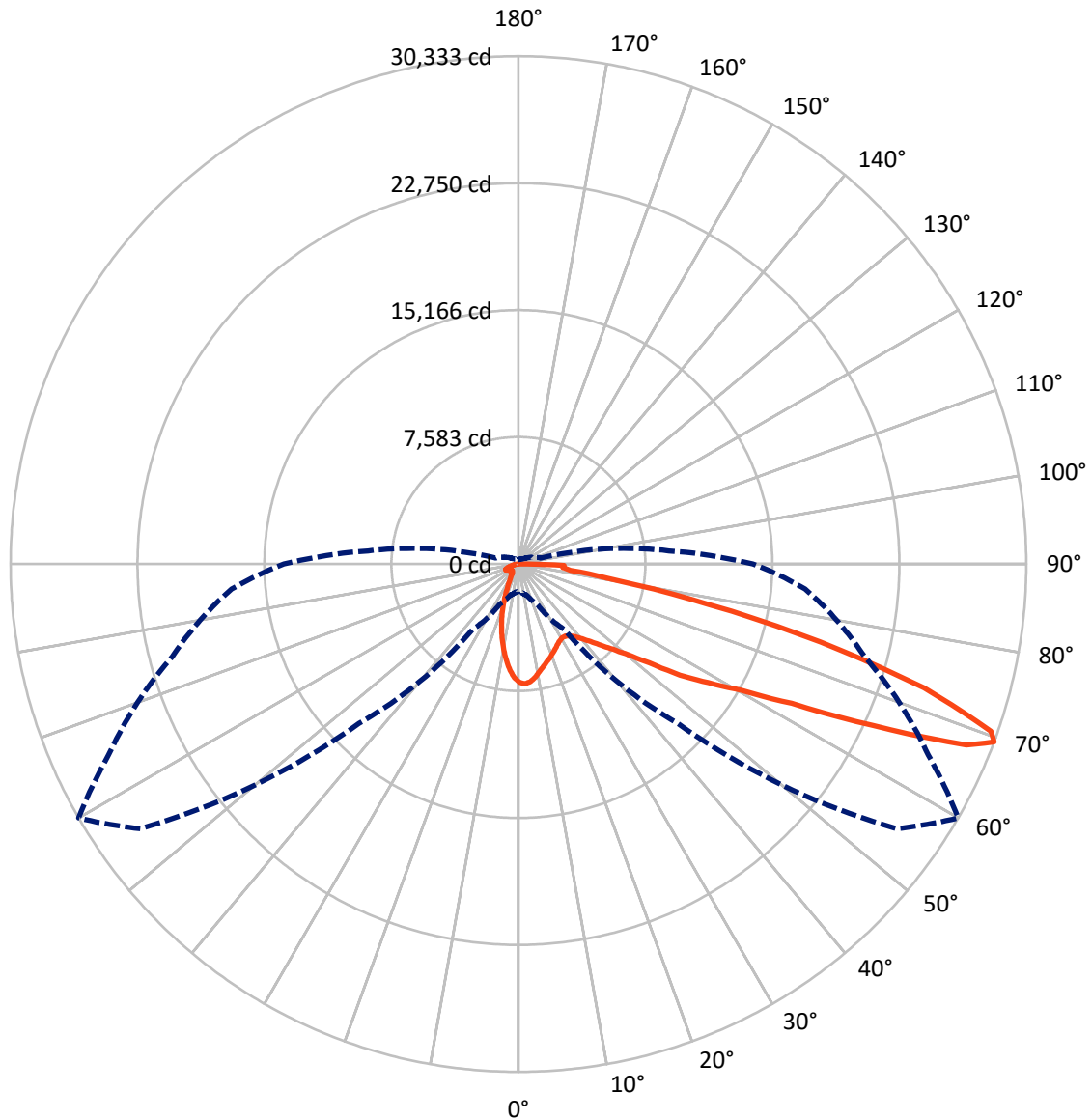
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3944.7	0.0	3944.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	23782.2	0.0	23782.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	27726.9	0.0	27726.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.4	2.2
10°-20°	1272.8	4.6
20°-30°	1621.8	5.8
30°-40°	2229.5	8.0
40°-50°	3617.6	13.0
50°-60°	5801.7	20.9
60°-70°	7721.6	27.8
70°-80°	4169.0	15.0
80°-90°	695.6	2.5
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°	27726.9	100.0
0°-180°	27726.9	100.0

Coefficient of Utilization



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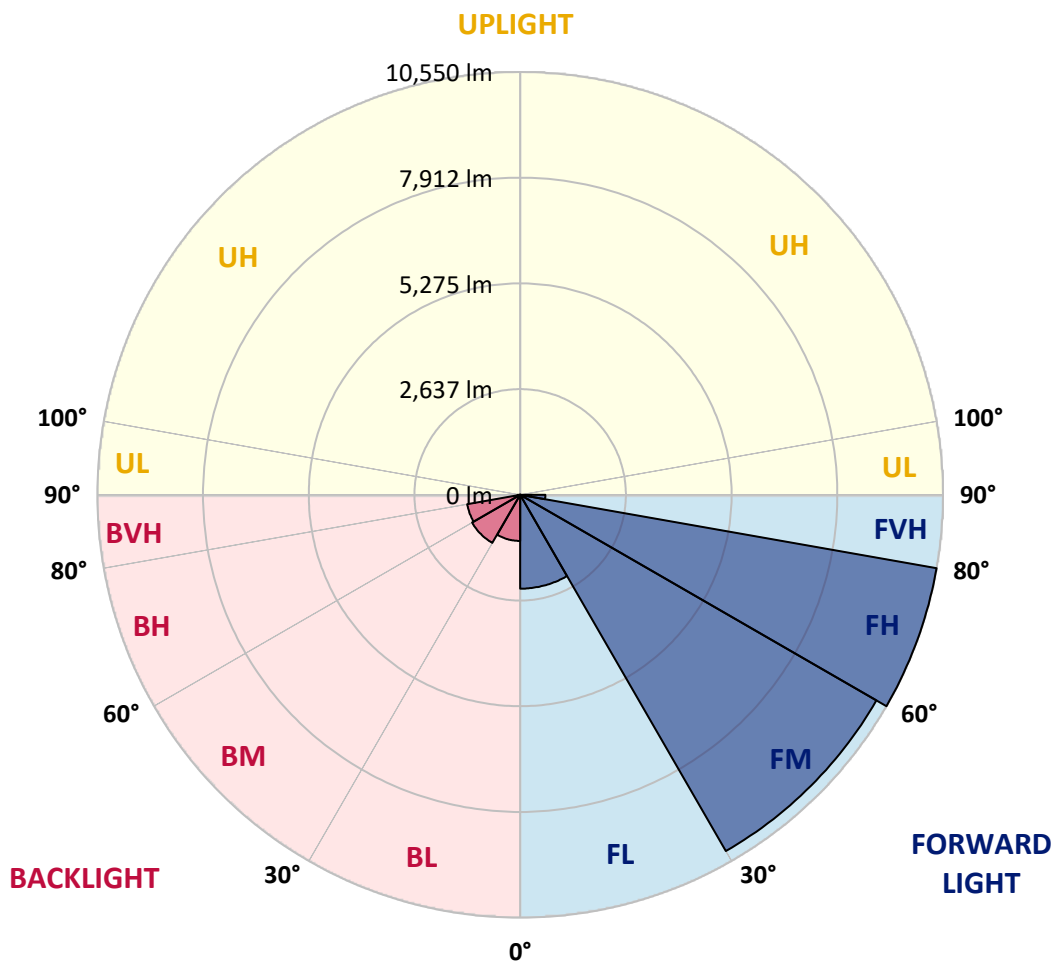
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2341.1	8.4			
FM	(30°-60°)	10262.9	37.0			
FH	(60°-80°)	10549.5	38.0			G4/12000
FVH	(80°-90°)	628.6	2.3			G4/750
BL	(0°-30°)	1150.8	4.2	B3/2500		
BM	(30°-60°)	1385.8	5.0	B2/2500		
BH	(60°-80°)	1341.1	4.8	B3/2500		G3/2500
BVH	(80°-90°)	67.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	7065.2	7065.2	7065.2	7065.2	7065.2	7065.2	7065.2	7065.2	7065.2	7065.2	7065.2
2.5°	7209.9	7226.0	7219.3	7215.2	7227.3	7208.5	7169.7	7157.6	7138.9	7094.7	7019.7
5°	6939.3	6987.5	6984.9	7021.0	7081.3	7097.4	7080.0	7082.6	7047.8	6992.9	6868.3
7.5°	6471.9	6492.0	6502.7	6581.7	6691.5	6779.9	6854.9	6879.1	6863.0	6816.1	6655.4
10°	5989.7	6005.8	6031.2	6123.6	6262.9	6384.8	6526.8	6608.5	6643.3	6635.3	6455.8
12.5°	5575.8	5591.9	5625.4	5729.9	5895.9	6046.0	6252.2	6354.0	6437.1	6486.6	6293.7
15°	5204.8	5239.7	5271.8	5392.3	5578.5	5775.4	6008.5	6137.0	6265.6	6376.8	6150.4
17.5°	4915.5	4950.3	4969.1	5078.9	5277.2	5518.2	5791.5	5942.8	6103.6	6285.7	6008.5
20°	4748.1	4764.2	4756.1	4817.7	4995.9	5251.7	5575.8	5751.3	5945.5	6200.0	5866.5
22.5°	4701.2	4702.6	4673.1	4666.4	4781.6	4997.2	5345.5	5558.4	5796.8	6143.7	5744.6
25°	4815.1	4811.1	4730.7	4665.1	4677.1	4803.0	5123.1	5370.9	5672.3	6131.7	5650.8
27.5°	5068.2	5080.3	4961.1	4837.8	4716.0	4711.9	4954.4	5215.5	5570.5	6186.6	5610.7
30°	5423.1	5443.2	5316.0	5159.3	4930.3	4741.4	4888.7	5123.1	5507.5	6300.4	5604.0
32.5°	5811.6	5833.0	5736.6	5571.8	5271.8	4923.6	4934.3	5131.2	5504.9	6459.8	5649.5
35°	6225.4	6249.5	6200.0	6060.7	5727.2	5259.7	5108.4	5261.1	5591.9	6703.6	5771.4
37.5°	6687.5	6725.0	6738.4	6605.8	6249.5	5703.1	5393.7	5507.5	5788.8	7042.5	5995.1
40°	7353.2	7405.4	7401.4	7211.2	6848.2	6301.8	5834.3	5863.8	6095.5	7495.2	6352.7
42.5°	8628.3	8639.0	8305.5	7891.6	7507.2	6931.3	6354.0	6329.9	6518.8	8068.4	6879.1
45°	10250.3	10206.1	9464.1	8664.4	8195.7	7654.6	7030.4	6912.5	7055.9	8767.6	7538.0
47.5°	11596.3	11494.6	10557.0	9453.3	8924.3	8440.8	7824.7	7618.4	7697.4	9560.5	8389.9
50°	12063.8	11987.4	11210.6	10109.6	9614.1	9399.8	8802.4	8510.4	8531.8	10506.1	9387.7
52.5°	11963.3	11952.6	11434.3	10542.3	10259.6	10407.0	10187.3	9792.2	9583.3	11556.2	10464.6
55°	11726.3	11749.0	11561.5	11045.9	10997.6	11379.4	11996.8	11704.8	11055.2	12615.6	11577.6
57.5°	10902.6	10961.5	11374.0	11679.4	12185.7	12753.6	13454.1	13371.0	12639.7	13760.8	12900.9
60°	8783.7	8920.3	10026.6	11556.2	13408.5	15184.5	15498.0	15305.1	14273.8	15181.9	14648.8
62.5°	6154.4	6296.4	7611.7	10005.2	13207.6	17930.3	19151.8	18320.0	16620.4	17275.3	16911.0
65°	3294.9	3363.2	4367.7	6942.0	11150.3	18496.8	24491.9	23226.2	20335.8	19856.3	18846.4
67.5°	1817.5	1855.0	2239.4	3505.2	7141.6	16288.2	27893.9	28850.2	24979.4	21574.7	18494.2
69°	1643.4	1678.2	1930.0	2654.7	4778.9	13467.5	27561.8	30332.9	27015.3	21404.6	17192.3
70°	1607.3	1639.4	1865.8	2447.0	3868.1	11100.8	26448.7	29953.9	27500.1	20795.2	16056.5
72.5°	1446.5	1481.4	1701.0	2197.9	3305.6	5534.3	20950.6	25326.3	24967.4	18030.7	12179.0
75°	1348.8	1380.9	1753.2	2152.4	3165.0	3502.5	13811.7	18665.6	18353.5	12612.9	6567.0
77.5°	577.3	574.6	813.0	1821.6	3211.8	3391.3	7421.5	11660.6	10638.7	5391.0	1885.8
80°	385.7	379.0	385.7	535.8	2945.3	3410.1	3888.2	5918.7	4470.8	1374.2	929.5
82.5°	332.2	326.8	338.9	326.8	1035.3	3892.2	3305.6	3147.5	2125.6	780.9	460.7
85°	223.7	214.3	292.0	293.3	488.9	3458.3	3723.5	2658.7	1719.8	463.4	227.7
87.5°	107.2	104.5	170.1	207.6	286.6	1405.0	4177.5	2724.3	1734.5	237.1	108.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7065.2	7065.2	7065.2	7065.2	7065.2	7065.2	7065.2	7065.2	7065.2	7065.2	7065.2
2.5°	6996.9	6942.0	6888.4	6824.1	6757.2	6682.2	6644.7	6607.2	6597.8	6587.1	6549.6
5°	6804.0	6726.4	6592.4	6445.1	6289.7	6138.4	6023.2	5950.9	5895.9	5867.8	5818.3
7.5°	6554.9	6441.1	6206.7	5952.2	5691.0	5452.6	5246.4	5116.4	4993.2	4935.6	4870.0
10°	6317.9	6147.8	5783.4	5408.4	5033.4	4673.1	4334.2	4094.5	3881.5	3762.3	3677.9
12.5°	6114.3	5881.2	5376.3	4868.6	4354.3	3841.3	3333.7	2934.6	2601.1	2425.6	2335.9
15°	5916.0	5634.8	4989.2	4344.9	3684.6	2986.8	2319.8	1867.1	1591.2	1481.4	1443.9
17.5°	5736.6	5376.3	4600.8	3817.2	2993.5	2149.7	1559.0	1309.9	1204.1	1167.9	1155.9
20°	5542.4	5115.1	4197.6	3265.4	2272.9	1502.8	1217.5	1107.7	1064.8	1054.1	1048.7
22.5°	5354.8	4857.9	3811.9	2674.7	1632.7	1159.9	1046.1	1000.5	993.8	1003.2	1003.2
25°	5195.5	4627.6	3395.3	2057.3	1198.7	976.4	936.2	925.5	951.0	985.8	992.5
27.5°	5076.2	4438.7	2952.0	1518.9	955.0	849.2	847.8	865.2	928.2	995.2	1008.6
30°	4994.5	4259.2	2477.9	1095.6	800.9	747.4	768.8	806.3	898.7	993.8	1019.3
32.5°	4953.0	4126.6	1983.6	847.8	685.8	656.3	692.5	738.0	829.1	917.5	951.0
35°	4985.2	4028.9	1517.5	707.2	605.4	582.6	620.1	664.3	717.9	755.4	780.9
37.5°	5105.7	3990.0	1145.2	633.5	550.5	529.1	558.5	584.0	605.4	616.1	628.2
40°	5365.6	4031.5	917.5	596.0	519.7	492.9	504.9	514.3	527.7	538.4	543.8
42.5°	5748.6	4156.1	822.4	581.3	503.6	464.8	462.1	466.1	483.5	503.6	507.6
45°	6284.4	4375.8	815.7	590.7	495.6	442.0	429.9	435.3	462.1	492.9	498.2
47.5°	6968.8	4710.6	869.3	618.8	502.3	429.9	409.9	416.5	450.0	491.6	498.2
50°	7797.9	5178.0	959.0	660.3	531.7	432.6	403.2	407.2	442.0	487.5	494.2
52.5°	8777.0	5841.0	1056.8	700.5	562.5	450.0	408.5	399.1	431.3	471.5	479.5
55°	9865.9	6691.5	1157.2	736.7	578.6	471.5	419.2	388.4	411.2	444.7	451.4
57.5°	11202.6	7880.9	1331.3	771.5	589.3	486.2	429.9	377.7	385.7	409.9	415.2
60°	13012.1	9563.2	1638.1	829.1	613.4	491.6	428.6	368.3	360.3	373.7	376.4
62.5°	15180.5	11390.1	1893.9	901.4	653.6	495.6	420.6	361.6	338.9	338.9	341.5
65°	16467.7	11879.0	1751.9	961.7	687.1	491.6	411.2	354.9	322.8	308.1	309.4
67.5°	15376.1	10447.2	1501.4	973.7	685.8	472.8	396.5	342.9	306.7	283.9	282.6
69°	14008.6	9014.0	1388.9	941.6	653.6	448.7	377.7	329.5	294.7	270.6	269.2
70°	12906.3	8139.4	1315.3	906.8	618.8	431.3	363.0	317.4	285.3	262.5	259.8
72.5°	9383.7	5333.4	1123.7	779.5	510.3	361.6	313.4	278.6	254.5	241.1	238.4
75°	4689.2	2543.5	912.1	632.2	391.1	289.3	257.2	233.1	221.0	218.3	217.0
77.5°	1540.3	1165.3	652.3	471.5	290.6	226.4	207.6	190.2	187.5	195.5	192.9
80°	846.5	677.7	413.9	312.1	198.2	166.1	163.4	154.0	158.0	171.4	168.8
82.5°	431.3	352.3	255.8	187.5	133.9	119.2	129.9	124.6	129.9	142.0	140.6
85°	213.0	192.9	162.1	113.8	88.4	76.3	92.4	96.4	99.1	108.5	108.5
87.5°	123.2	113.8	85.7	53.6	44.2	40.2	53.6	52.2	61.6	67.0	65.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)