

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: P299129

Luminaire Tested: **GLNA-AF-06-LED-E1-SL2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-7050
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34756 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

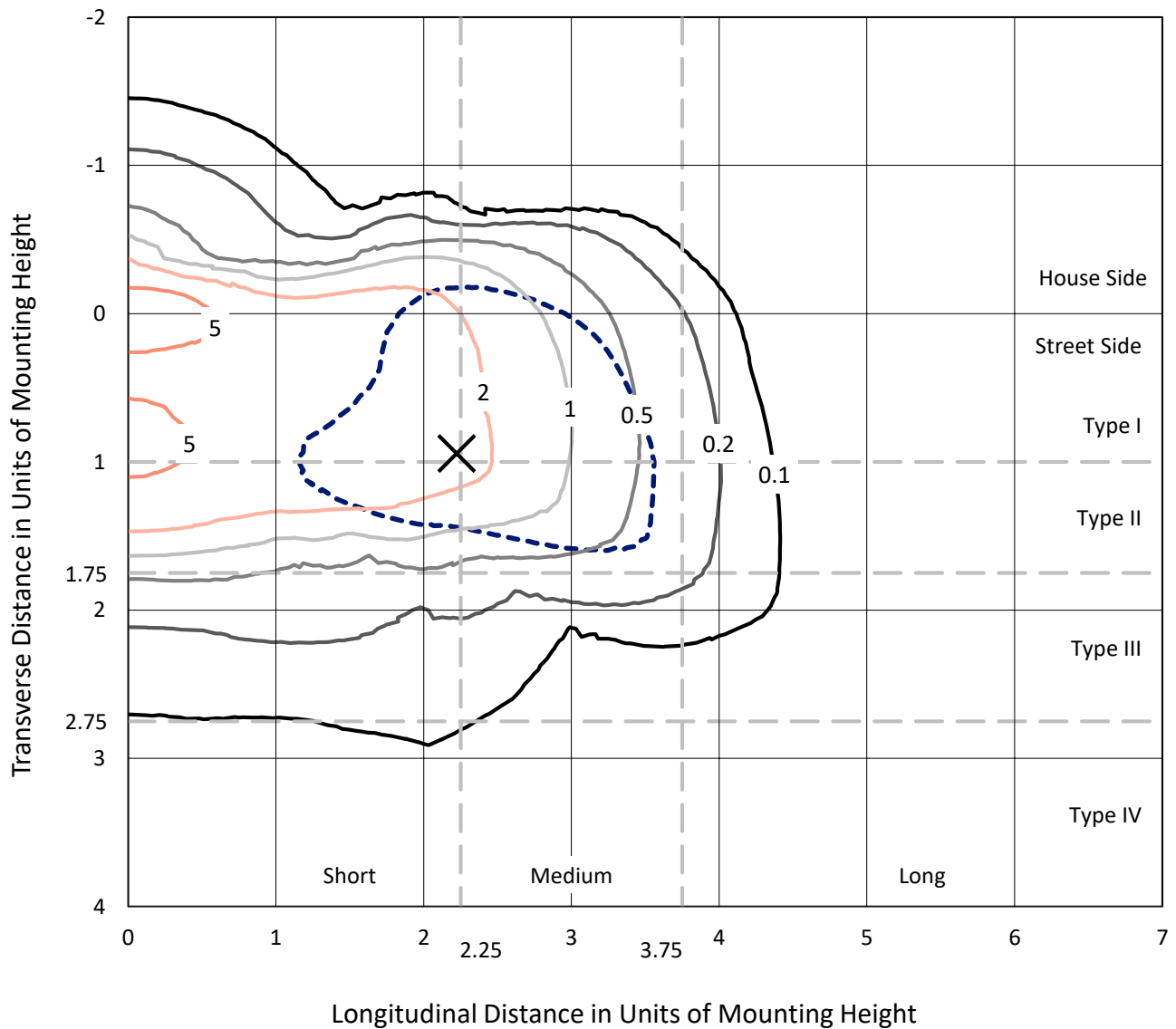
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

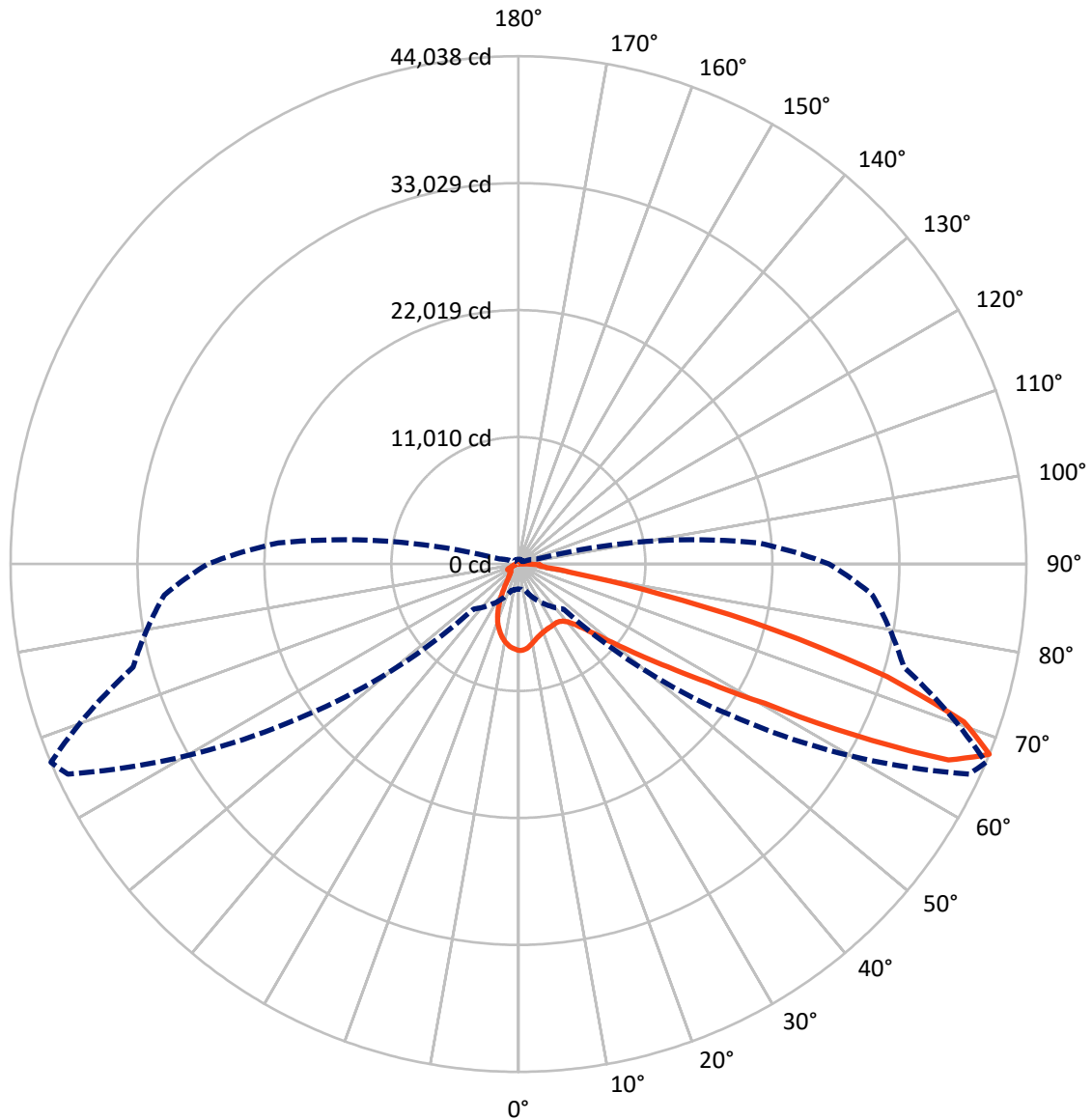
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5758.7	0.0	5758.7
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	28997.3	0.0	28997.3
	% Fixture	83.4	0.0	83.4
Total	Lumens	34756.0	0.0	34756.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	639.6	1.8
10°-20°	1479.9	4.3
20°-30°	2006.0	5.8
30°-40°	2851.8	8.2
40°-50°	4771.2	13.7
50°-60°	7547.9	21.7
60°-70°	9615.3	27.7
70°-80°	5036.5	14.5
80°-90°	807.8	2.3
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°	34756.0	100.0
0°-180°	34756.0	100.0



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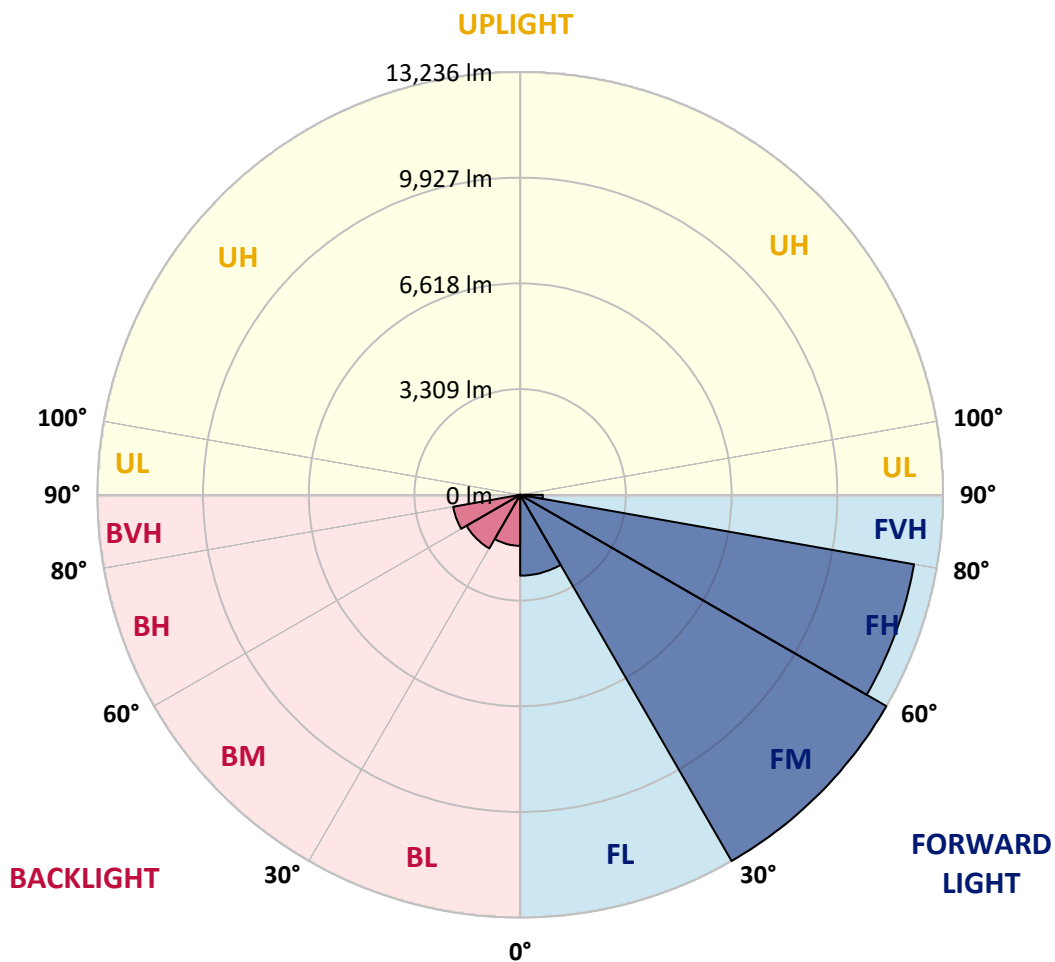
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2529.4	7.3			
FM (30°-60°)	13235.8	38.1			
FH (60°-80°)	12521.9	36.0			G5
FVH (80°-90°)	710.3	2.0			G4/750
BL (0°-30°)	1596.1	4.6	B3/2500		
BM (30°-60°)	1935.1	5.6	B2/2500		
BH (60°-80°)	2130.0	6.1	B3/2500		G3/2500
BVH (80°-90°)	97.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7496.8	7496.8	7496.8	7496.8	7496.8	7496.8	7496.8	7496.8	7496.8	7496.8	7496.8
2.5°	7188.3	7200.3	7238.0	7262.0	7370.0	7416.2	7448.8	7481.4	7486.5	7501.9	7486.5
5°	6434.1	6459.9	6530.1	6609.0	6818.1	6982.6	7155.7	7335.7	7368.2	7484.8	7517.4
7.5°	5849.7	5842.8	5901.1	5995.4	6209.6	6437.6	6740.9	7099.2	7169.4	7431.7	7558.5
10°	5422.9	5417.8	5479.5	5577.2	5781.1	5997.1	6339.9	6830.1	6929.5	7347.7	7597.9
12.5°	5107.5	5109.3	5171.0	5278.9	5486.3	5704.0	6051.9	6569.5	6696.4	7250.0	7639.0
15°	4898.4	4912.2	4961.9	5076.7	5278.9	5496.6	5837.7	6374.2	6516.4	7172.9	7685.3
17.5°	4828.2	4850.5	4867.6	4951.6	5124.7	5342.4	5676.6	6230.2	6381.0	7119.7	7726.5
20°	4893.3	4919.0	4886.5	4915.6	5025.3	5217.2	5549.7	6117.1	6271.3	7059.7	7731.6
22.5°	5172.7	5196.7	5100.7	5016.7	5009.9	5126.4	5445.2	6027.9	6187.3	7015.2	7733.3
25°	5664.6	5680.0	5518.9	5323.5	5133.3	5093.8	5371.5	5966.2	6135.9	6975.7	7700.7
27.5°	6267.9	6279.9	6094.8	5806.8	5424.6	5171.0	5345.8	5930.2	6106.8	6941.5	7645.9
30°	7001.5	7058.0	6809.5	6446.1	5889.1	5398.9	5397.2	5911.4	6074.2	6883.2	7537.9
32.5°	7752.2	7776.2	7604.8	7236.3	6514.7	5800.0	5541.2	5925.1	6065.6	6812.9	7400.8
35°	8513.2	8544.0	8432.6	8136.1	7370.0	6387.9	5822.3	6005.7	6118.8	6788.9	7304.8
37.5°	9498.7	9539.8	9385.6	9042.8	8410.3	7184.8	6290.2	6207.9	6281.6	6857.5	7275.7
40°	11056.6	11037.8	10587.0	10076.3	9548.4	8204.6	6958.6	6550.7	6593.5	7078.6	7364.8
42.5°	12870.0	12823.7	12047.3	11245.2	10799.6	9438.7	7843.0	7145.4	7136.9	7513.9	7678.5
45°	14316.6	14278.9	13579.6	12590.6	12234.1	10844.1	8986.2	8031.5	7968.1	8204.6	8257.8
47.5°	15099.8	15101.6	14698.8	13891.5	13882.9	12630.0	10455.1	9313.6	9203.9	9315.3	9258.7
50°	14825.6	14861.6	14818.8	14561.7	15387.8	14971.3	12373.0	11101.2	10880.1	10989.8	10772.1
52.5°	13499.0	13545.3	13799.0	14193.2	16020.2	17801.0	15190.7	13322.5	13065.4	13026.0	12784.3
55°	11147.5	11204.0	11721.7	12792.9	15494.0	19701.8	19636.6	16153.9	15744.3	15372.4	15269.5
57.5°	7683.6	7777.9	8610.8	10201.4	13792.1	20275.9	24931.0	20190.2	19357.3	18058.1	18082.1
60°	4331.1	4440.8	5422.9	6867.8	10357.4	19652.1	28958.8	26303.9	24545.4	21203.2	21381.4
62.5°	2754.3	2872.6	3618.1	4771.6	6214.8	16292.7	30609.3	34803.3	32570.1	25080.1	25254.9
65°	2229.8	2281.3	2632.6	3938.6	4512.8	9815.8	29356.4	41804.8	40971.8	30000.9	29185.0
67.5°	2176.7	2193.8	2375.5	3306.2	4327.7	5517.2	23415.9	43114.2	44038.0	34595.9	30821.8
70°	2151.0	2211.0	2677.2	3155.4	4144.3	4653.4	14071.5	39525.2	40983.8	35797.4	28643.4
72.5°	1043.8	1040.4	1347.2	2853.7	4668.8	4826.5	7229.4	31980.5	33444.2	31013.8	23537.6
75°	841.5	769.6	735.3	1045.5	4488.8	4984.1	4607.1	22005.3	23064.5	20793.6	14469.1
77.5°	798.7	713.0	653.0	654.7	1897.3	5285.8	3902.6	12179.3	12487.8	9392.4	3964.3
80°	661.6	582.7	539.9	608.4	918.7	5033.9	4219.7	5512.0	5057.8	2307.0	1319.7
82.5°	459.3	418.2	406.2	510.8	735.3	3587.3	4907.0	2961.7	2483.5	1155.2	814.1
85°	293.1	250.2	277.7	371.9	572.5	1655.7	5054.4	2308.7	1835.6	733.6	459.3
87.5°	135.4	109.7	137.1	205.7	373.6	570.7	4809.3	2593.2	1890.5	387.4	289.7
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°	7496.8	7496.8	7496.8	7496.8	7496.8	7496.8	7496.8	7496.8	7496.8	7496.8	7496.8
2.5°	7500.2	7467.6	7441.9	7393.9	7340.8	7289.4	7243.1	7184.8	7167.7	7152.3	7176.3
5°	7524.2	7491.6	7397.4	7250.0	7087.2	6934.6	6782.1	6651.8	6571.3	6526.7	6552.4
7.5°	7560.2	7513.9	7318.5	7047.7	6754.6	6487.3	6211.3	5990.2	5827.4	5750.3	5772.6
10°	7592.8	7503.6	7184.8	6778.6	6350.2	5952.5	5517.2	5157.3	4889.9	4749.3	4783.6
12.5°	7606.5	7464.2	6998.0	6442.7	5854.8	5272.1	4631.1	4092.9	3709.0	3568.4	3539.3
15°	7620.2	7419.7	6792.4	6060.5	5256.7	4432.3	3534.2	2889.7	2570.9	2500.6	2485.2
17.5°	7623.6	7342.5	6559.3	5645.7	4555.7	3433.0	2416.7	2007.0	2008.7	2121.9	2135.6
20°	7587.6	7227.7	6276.5	5129.8	3715.8	2373.8	1659.1	1588.8	1847.6	2130.4	2164.7
22.5°	7505.4	7075.2	5956.0	4528.2	2754.3	1563.1	1283.7	1360.9	1695.1	2041.3	2080.7
25°	7400.8	6890.1	5577.2	3830.7	1823.6	1117.5	1076.4	1170.6	1396.9	1628.2	1650.5
27.5°	7258.5	6670.7	5152.1	3032.0	1184.3	920.4	947.8	1011.2	1103.8	1206.6	1216.9
30°	7075.2	6408.4	4697.9	2211.0	894.7	827.8	867.3	901.5	941.0	999.2	1004.4
32.5°	6864.3	6156.5	4231.7	1527.1	793.6	779.8	810.7	827.8	858.7	894.7	898.1
35°	6687.8	5916.5	3748.4	1079.8	750.7	743.9	764.4	771.3	800.4	839.8	843.3
37.5°	6586.7	5721.1	3249.6	870.7	721.6	711.3	723.3	723.3	764.4	822.7	831.3
40°	6593.5	5613.2	2750.9	786.7	697.6	683.9	685.6	685.6	738.7	802.1	807.3
42.5°	6780.4	5640.6	2308.7	754.1	678.7	663.3	654.7	659.9	704.4	745.6	749.0
45°	7219.1	5834.3	1893.9	733.6	659.9	654.7	635.9	634.2	651.3	670.2	670.2
47.5°	7939.0	6216.5	1612.8	719.9	644.4	642.7	620.4	598.2	596.5	603.3	603.3
50°	9109.6	6874.6	1424.3	704.4	634.2	620.4	594.7	560.5	548.5	553.6	553.6
52.5°	10864.7	8048.7	1352.3	683.9	611.9	589.6	560.5	526.2	515.9	517.6	517.6
55°	13166.5	9851.7	1342.0	659.9	587.9	551.9	527.9	502.2	490.2	493.6	493.6
57.5°	15979.1	12345.5	1525.4	622.2	555.3	514.2	500.5	483.3	474.8	479.9	478.2
60°	19398.4	15608.9	2262.4	582.7	522.8	479.9	479.9	466.2	459.3	464.5	462.8
62.5°	23337.0	19357.3	3181.1	553.6	488.5	452.5	459.3	452.5	445.6	449.1	447.3
65°	26830.1	21799.6	2978.8	531.3	454.2	426.8	438.8	435.3	430.2	433.6	431.9
67.5°	26931.2	20894.7	1672.8	507.3	421.6	401.1	418.2	416.5	413.1	416.5	414.8
70°	24034.6	17643.3	942.7	462.8	387.4	370.2	394.2	392.5	389.1	395.9	394.2
72.5°	19256.1	12803.2	689.0	407.9	353.1	337.6	365.1	363.4	363.4	373.6	368.5
75°	11080.6	6588.4	550.2	349.6	317.1	305.1	329.1	330.8	334.2	347.9	337.6
77.5°	3158.8	2053.3	449.1	296.5	272.5	267.4	291.4	294.8	296.5	311.9	298.2
80°	1174.1	946.1	370.2	248.5	222.8	224.5	246.8	251.9	253.7	269.1	251.9
82.5°	749.0	623.9	299.9	192.0	174.8	173.1	200.5	207.4	207.4	209.1	198.8
85°	437.1	373.6	226.2	138.8	123.4	118.3	149.1	161.1	156.0	152.5	145.7
87.5°	293.1	257.1	138.8	77.1	66.8	63.4	87.4	96.0	92.6	87.4	82.3
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)