

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: P191886

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191886
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: GLEON-AF-08-LED-E1-SL2-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37758 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 334
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

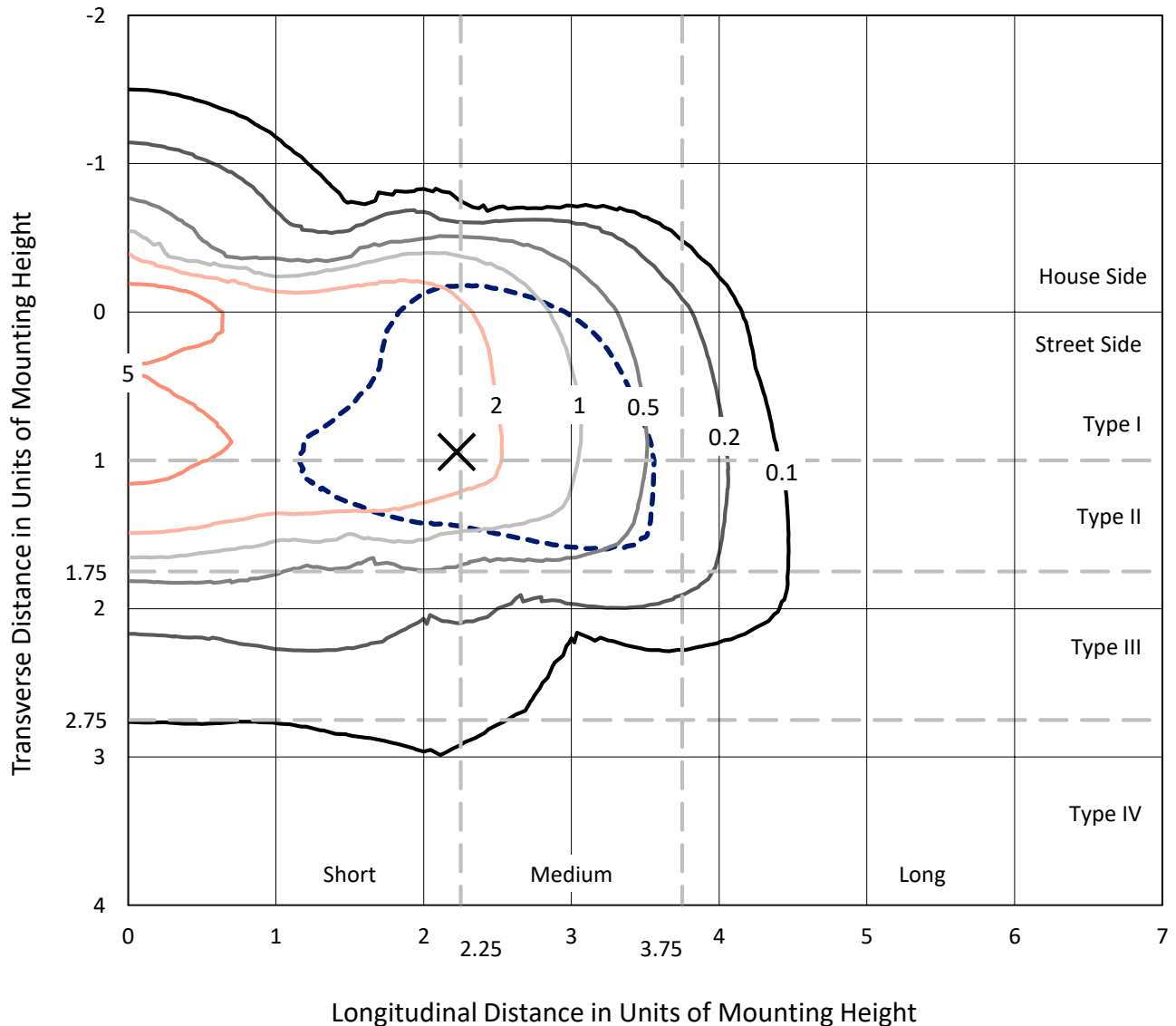


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Iso-Footcandle Lines of Horizontal Illumination

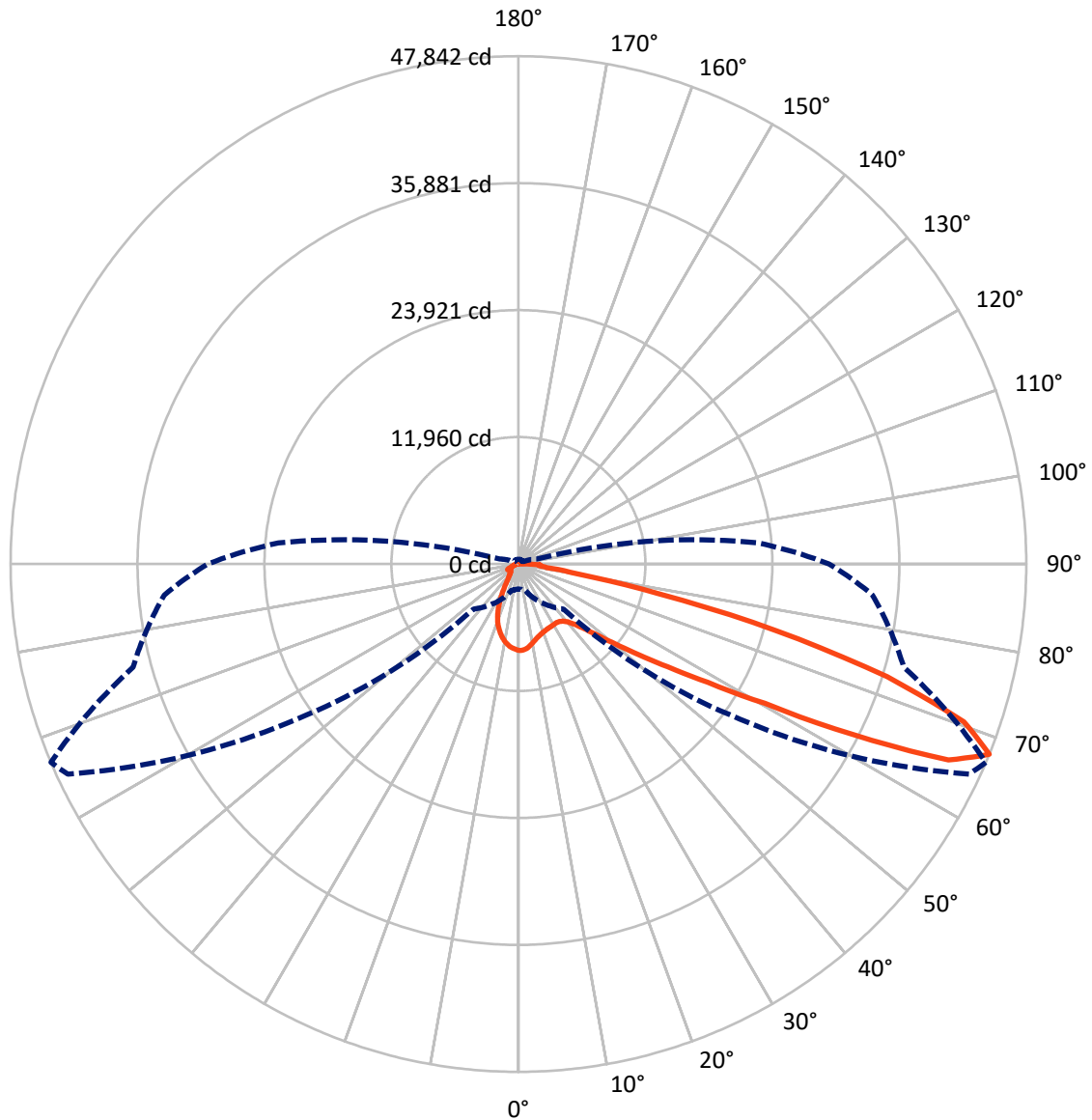
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 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	6256.1	0.0	6256.1
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	31501.9	0.0	31501.9
	% Fixture	83.4	0.0	83.4
Total	Lumens	37758.0	0.0	37758.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	694.8	1.8
10°-20°	1607.7	4.3
20°-30°	2179.3	5.8
30°-40°	3098.1	8.2
40°-50°	5183.3	13.7
50°-60°	8199.9	21.7
60°-70°	10445.8	27.7
70°-80°	5471.5	14.5
80°-90°	877.5	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°	37758.0	100.0
0°-180°	37758.0	100.0



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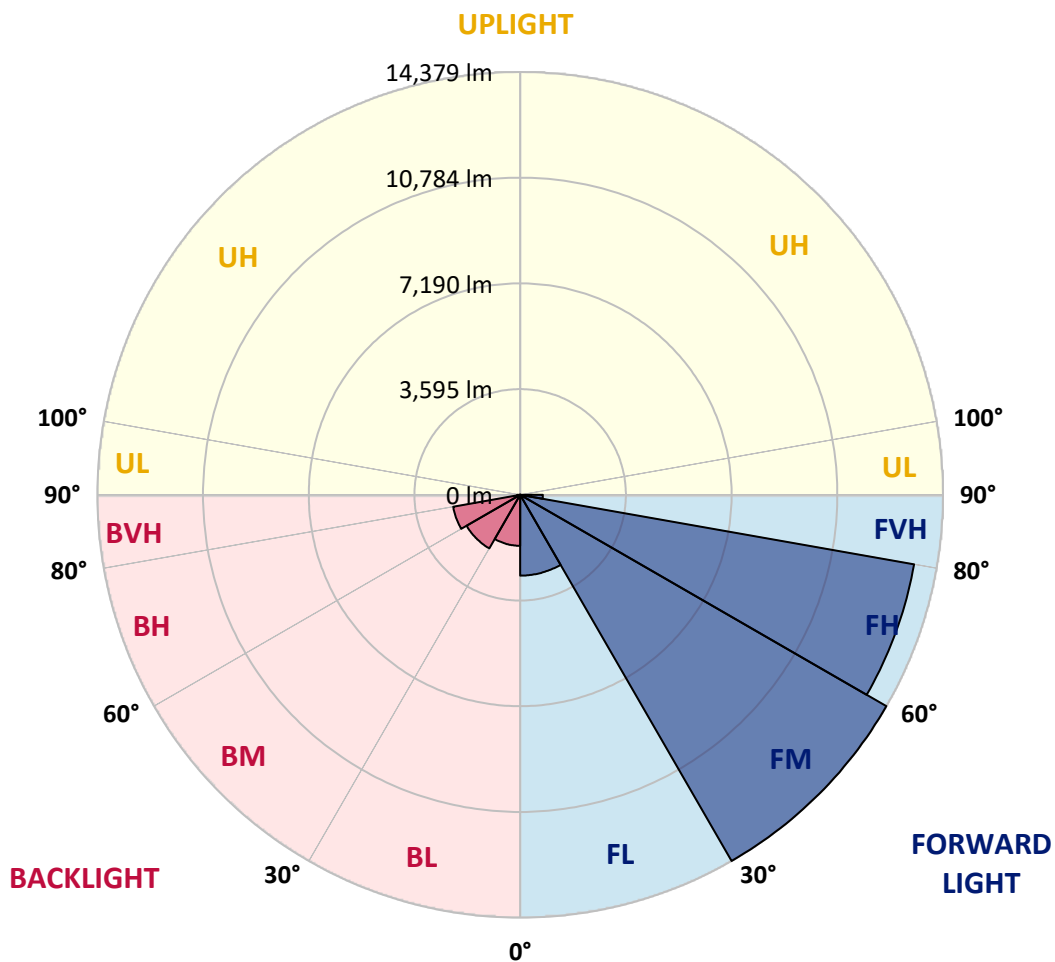
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2747.9	7.3			
FM (30°-60°)	14379.0	38.1			
FH (60°-80°)	13603.4	36.0			G5
FVH (80°-90°)	771.6	2.0			G5
BL (0°-30°)	1734.0	4.6	B3/2500		
BM (30°-60°)	2102.2	5.6	B2/2500		
BH (60°-80°)	2313.9	6.1	B3/2500		G3/2500
BVH (80°-90°)	105.9	0.3			G2/225
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°	8144.3	8144.3	8144.3	8144.3	8144.3	8144.3	8144.3	8144.3	8144.3	8144.3	8144.3
2.5°	7809.2	7822.2	7863.1	7889.2	8006.5	8056.8	8092.2	8127.6	8133.1	8149.9	8133.1
5°	6989.9	7017.8	7094.2	7179.8	7407.0	7585.7	7773.8	7969.3	8004.7	8131.3	8166.7
7.5°	6354.9	6347.5	6410.8	6513.2	6746.0	6993.6	7323.2	7712.3	7788.7	8073.6	8211.3
10°	5891.3	5885.7	5952.8	6058.9	6280.5	6515.1	6887.5	7420.0	7528.0	7982.3	8254.2
12.5°	5548.7	5550.6	5617.6	5734.9	5960.2	6196.7	6574.7	7137.0	7274.8	7876.2	8298.9
15°	5321.5	5336.4	5390.4	5515.2	5734.9	5971.4	6341.9	6924.7	7079.3	7792.4	8349.1
17.5°	5245.2	5269.4	5288.0	5379.3	5567.3	5803.8	6166.9	6768.3	6932.2	7734.7	8393.8
20°	5316.0	5343.9	5308.5	5340.2	5459.3	5667.9	6029.1	6645.4	6813.0	7669.5	8399.4
22.5°	5619.5	5645.5	5541.3	5450.0	5442.6	5569.2	5915.5	6548.6	6721.8	7621.1	8401.3
25°	6153.8	6170.6	5995.6	5783.3	5576.6	5533.8	5835.5	6481.6	6665.9	7578.3	8365.9
27.5°	6809.3	6822.3	6621.2	6308.4	5893.2	5617.6	5807.5	6442.5	6634.2	7541.0	8306.3
30°	7606.2	7667.6	7397.7	7002.9	6397.8	5865.2	5863.4	6422.0	6598.9	7477.7	8189.0
32.5°	8421.7	8447.8	8261.6	7861.3	7077.4	6300.9	6019.8	6436.9	6589.6	7401.4	8040.0
35°	9248.5	9282.0	9161.0	8838.8	8006.5	6939.6	6325.2	6524.4	6647.3	7375.3	7935.8
37.5°	10319.1	10363.8	10196.2	9823.8	9136.7	7805.4	6833.5	6744.1	6824.2	7449.8	7904.1
40°	12011.6	11991.2	11501.5	10946.6	10373.1	8913.3	7559.6	7116.5	7163.0	7690.0	8000.9
42.5°	13981.6	13931.3	13087.9	12216.5	11732.3	10253.9	8520.4	7762.6	7753.3	8162.9	8341.7
45°	15553.1	15512.2	14752.5	13678.1	13290.8	11780.8	9762.4	8725.2	8656.4	8913.3	8971.0
47.5°	16404.1	16405.9	15968.4	15091.4	15082.1	13720.9	11358.1	10118.0	9998.8	10119.9	10058.4
50°	16106.1	16145.2	16098.7	15819.4	16716.9	16264.4	13441.6	12060.1	11819.9	11939.0	11702.6
52.5°	14665.0	14715.2	14990.8	15419.1	17403.9	19338.5	16502.7	14473.2	14193.9	14151.1	13888.5
55°	12110.3	12171.8	12734.1	13897.8	16832.3	21403.5	21332.7	17549.2	17104.2	16700.1	16588.4
57.5°	8347.3	8449.7	9354.6	11082.5	14983.4	22027.2	27084.4	21934.1	21029.2	19617.8	19643.9
60°	4705.2	4824.4	5891.3	7461.0	11252.0	21349.5	31460.0	28575.8	26665.4	23034.6	23228.2
62.5°	2992.2	3120.7	3930.6	5183.8	6751.5	17700.0	33253.1	37809.4	35383.2	27246.4	27436.3
65°	2422.4	2478.3	2860.0	4278.8	4902.6	10663.6	31892.0	45415.6	44510.7	32592.1	31705.8
67.5°	2364.7	2383.3	2580.7	3591.8	4701.5	5993.7	25438.4	46838.2	47841.8	37584.1	33484.0
70°	2336.8	2402.0	2908.4	3427.9	4502.3	5055.3	15286.9	42939.2	44523.7	38889.4	31117.4
72.5°	1133.9	1130.2	1463.5	3100.2	5072.0	5243.3	7853.8	34742.7	36332.8	33692.6	25570.6
75°	914.2	836.0	798.8	1135.8	4876.5	5414.6	5005.0	23906.0	25056.7	22589.6	15718.8
77.5°	867.7	774.6	709.4	711.3	2061.2	5742.4	4239.7	13231.2	13566.4	10203.7	4306.8
80°	718.7	633.1	586.5	661.0	998.0	5468.6	4584.2	5988.1	5494.7	2506.2	1433.7
82.5°	499.0	454.3	441.3	554.9	798.8	3897.1	5330.9	3217.5	2698.0	1255.0	884.4
85°	318.4	271.8	301.6	404.1	621.9	1798.7	5491.0	2508.1	1994.2	796.9	499.0
87.5°	147.1	119.2	149.0	223.4	405.9	620.0	5224.7	2817.2	2053.8	420.8	314.7
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°	8144.3	8144.3	8144.3	8144.3	8144.3	8144.3	8144.3	8144.3	8144.3	8144.3	8144.3
2.5°	8148.0	8112.7	8084.7	8032.6	7974.9	7919.0	7868.7	7805.4	7786.8	7770.0	7796.1
5°	8174.1	8138.7	8036.3	7876.2	7699.3	7533.6	7367.9	7226.4	7138.8	7090.4	7118.4
7.5°	8213.2	8162.9	7950.7	7656.5	7338.1	7047.6	6747.8	6507.6	6330.7	6246.9	6271.2
10°	8248.6	8151.8	7805.4	7364.1	6898.6	6466.7	5993.7	5602.7	5312.2	5159.6	5196.8
12.5°	8263.5	8108.9	7602.5	6999.2	6360.5	5727.5	5031.1	4446.4	4029.3	3876.6	3845.0
15°	8278.4	8060.5	7379.0	6584.0	5710.7	4815.1	3839.4	3139.3	2793.0	2716.6	2699.9
17.5°	8282.1	7976.7	7125.8	6133.4	4949.1	3729.5	2625.4	2180.4	2182.2	2305.1	2320.0
20°	8243.0	7852.0	6818.6	5572.9	4036.8	2578.8	1802.4	1726.1	2007.2	2314.4	2351.7
22.5°	8153.6	7686.3	6470.4	4919.4	2992.2	1698.1	1394.6	1478.4	1841.5	2217.6	2260.4
25°	8040.0	7485.2	6058.9	4161.5	1981.1	1214.0	1169.3	1271.7	1517.5	1768.9	1793.1
27.5°	7885.5	7246.8	5597.1	3293.8	1286.6	999.9	1029.7	1098.6	1199.1	1310.8	1322.0
30°	7686.3	6961.9	5103.7	2402.0	972.0	899.3	942.2	979.4	1022.2	1085.5	1091.1
32.5°	7457.2	6688.2	4597.2	1659.0	862.1	847.2	880.7	899.3	932.9	972.0	975.7
35°	7265.5	6427.6	4072.2	1173.0	815.5	808.1	830.4	837.9	869.5	912.4	916.1
37.5°	7155.6	6215.3	3530.3	945.9	783.9	772.7	785.8	785.8	830.4	893.8	903.1
40°	7163.0	6098.0	2988.5	854.6	757.8	742.9	744.8	744.8	802.5	871.4	877.0
42.5°	7366.0	6127.8	2508.1	819.3	737.3	720.6	711.3	716.9	765.3	810.0	813.7
45°	7842.7	6338.2	2057.5	796.9	716.9	711.3	690.8	688.9	707.6	728.0	728.0
47.5°	8624.7	6753.4	1752.1	782.0	700.1	698.2	674.0	649.8	648.0	655.4	655.4
50°	9896.4	7468.4	1547.3	765.3	688.9	674.0	646.1	608.9	595.8	601.4	601.4
52.5°	11803.1	8743.9	1469.1	742.9	664.7	640.5	608.9	571.6	560.5	562.3	562.3
55°	14303.7	10702.7	1457.9	716.9	638.7	599.6	573.5	545.6	532.5	536.3	536.3
57.5°	17359.3	13411.9	1657.2	675.9	603.3	558.6	543.7	525.1	515.8	521.4	519.5
60°	21073.9	16957.1	2457.8	633.1	567.9	521.4	521.4	506.5	499.0	504.6	502.7
62.5°	25352.7	21029.2	3455.8	601.4	530.7	491.6	499.0	491.6	484.1	487.8	486.0
65°	29147.5	23682.5	3236.1	577.2	493.4	463.6	476.7	472.9	467.4	471.1	469.2
67.5°	29257.3	22699.4	1817.3	551.1	458.0	435.7	454.3	452.5	448.7	452.5	450.6
70°	26110.6	19167.2	1024.1	502.7	420.8	402.2	428.3	426.4	422.7	430.1	428.3
72.5°	20919.4	13909.0	748.5	443.2	383.6	366.8	396.6	394.7	394.7	405.9	400.3
75°	12037.7	7157.5	597.7	379.8	344.5	331.4	357.5	359.4	363.1	378.0	366.8
77.5°	3431.6	2230.7	487.8	322.1	296.1	290.5	316.5	320.3	322.1	338.9	324.0
80°	1275.5	1027.8	402.2	270.0	242.1	243.9	268.1	273.7	275.6	292.3	273.7
82.5°	813.7	677.8	325.8	208.5	189.9	188.1	217.9	225.3	225.3	227.2	216.0
85°	474.8	405.9	245.8	150.8	134.1	128.5	162.0	175.0	169.4	165.7	158.3
87.5°	318.4	279.3	150.8	83.8	72.6	68.9	95.0	104.3	100.5	95.0	89.4
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)