

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: P193806

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193806  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
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-SL4-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40577 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 511  
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

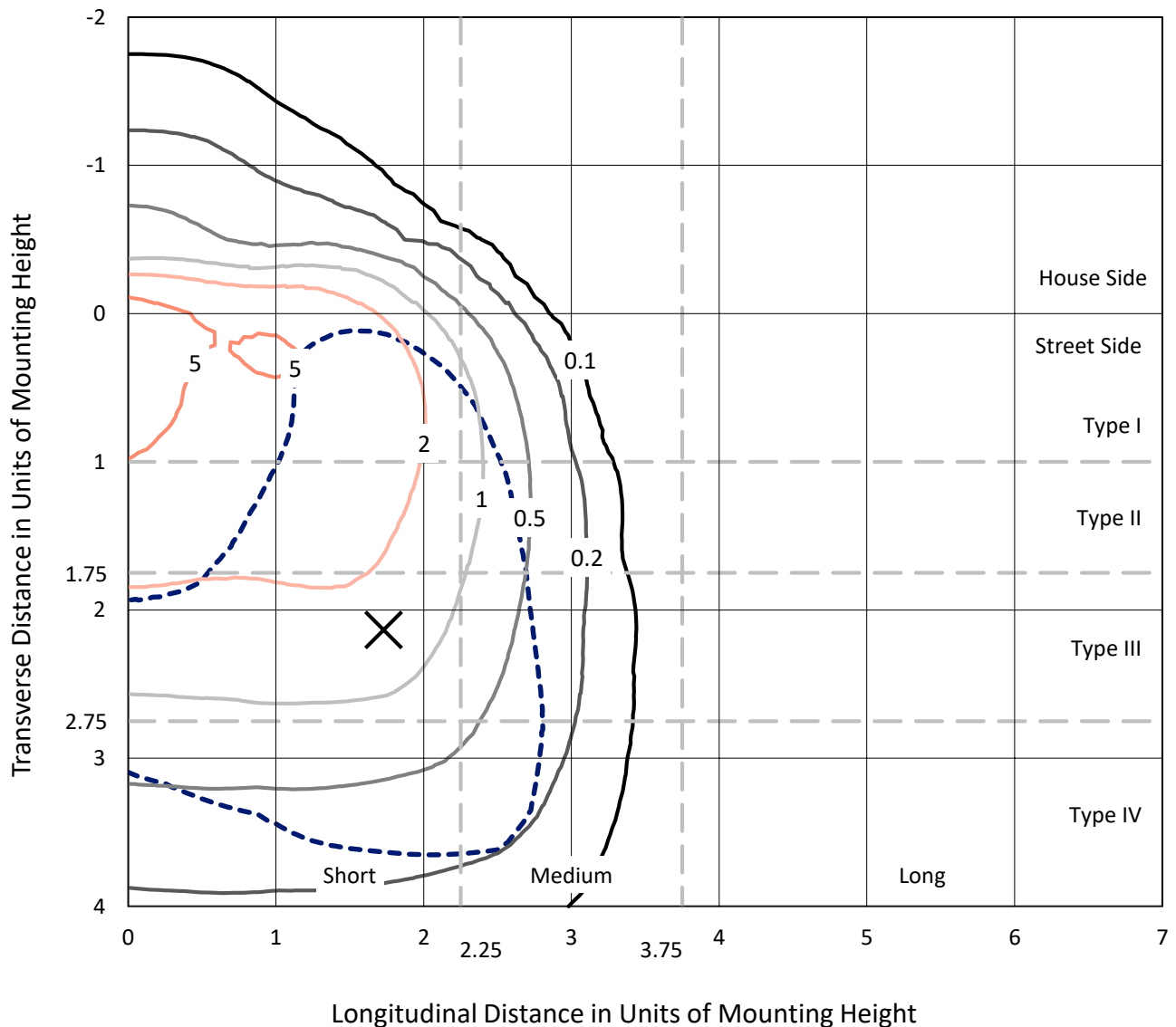


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

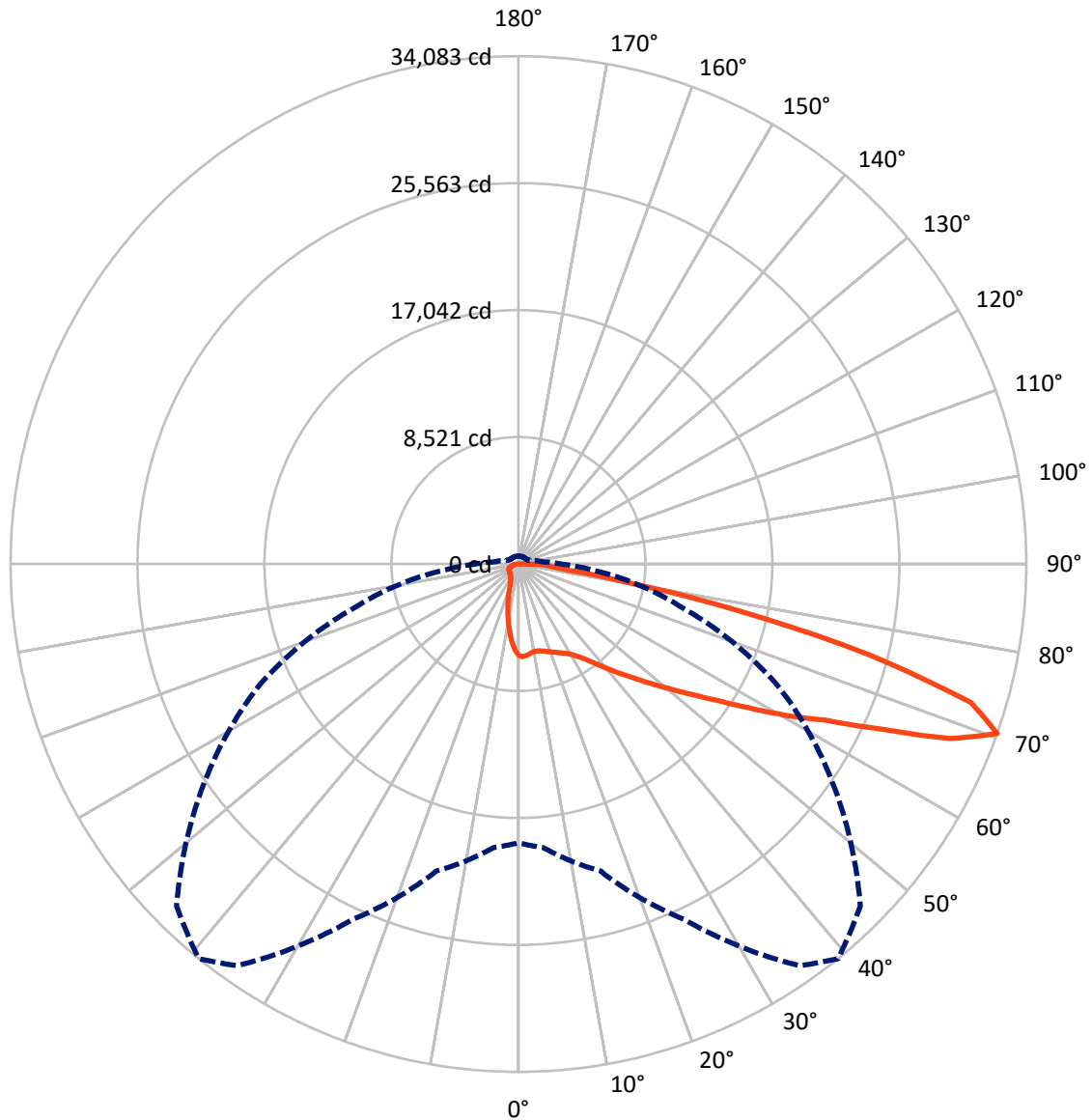


Based on 30 foot mounting height. Maximum calculated value = 6.8 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4615.0	0.0	4615.0
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	35962.0	0.0	35962.0
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	40577.0	0.0	40577.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	528.7	1.3
10°-20°	1321.5	3.3
20°-30°	2057.6	5.1
30°-40°	3205.3	7.9
40°-50°	5381.1	13.3
50°-60°	8548.4	21.1
60°-70°	11402.6	28.1
70°-80°	6885.7	17.0
80°-90°	1246.2	3.1
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°	40577.0	100.0
0°-180°	40577.0	100.0

**Coefficient of Utilization**



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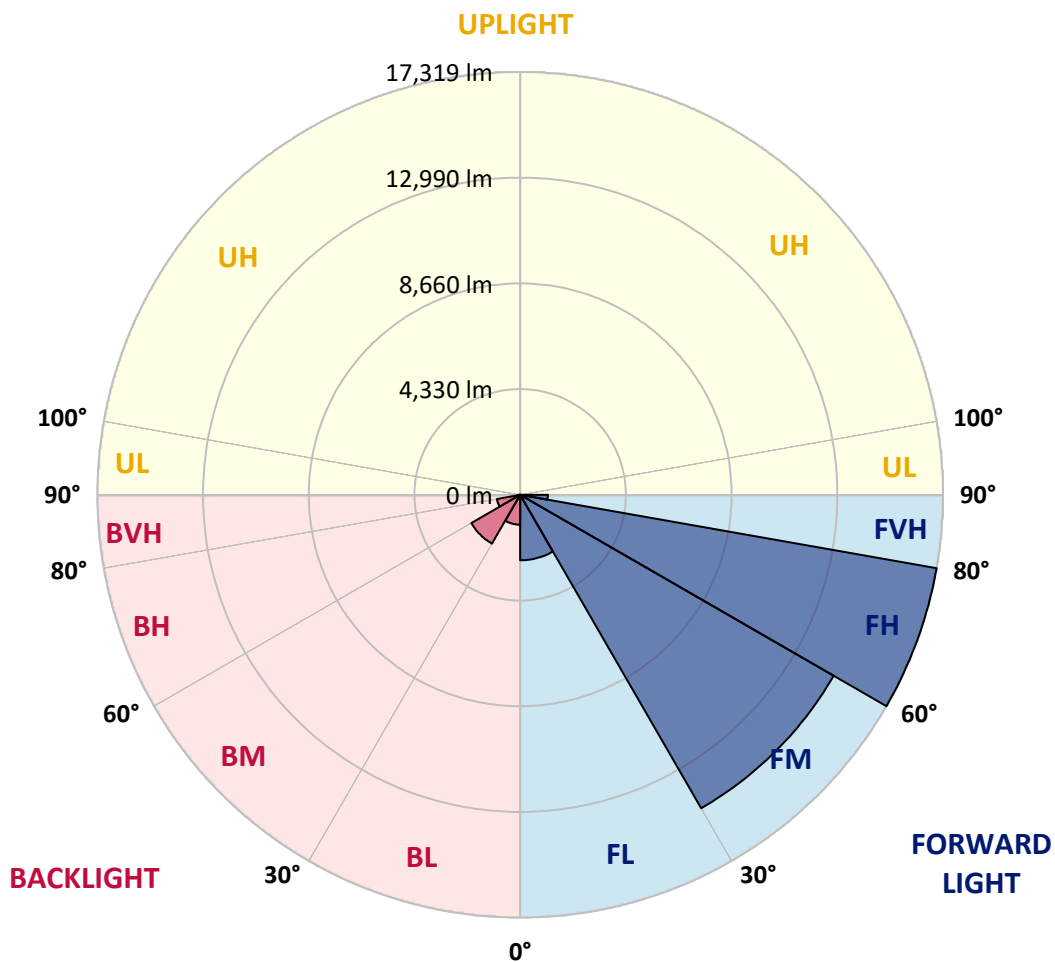
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2683.4	6.6			
FM	(30°-60°)	14825.3	36.5			
FH	(60°-80°)	17319.4	42.7			G5
FVH	(80°-90°)	1133.9	2.8			G5
BL	(0°-30°)	1224.3	3.0	B3/2500		
BM	(30°-60°)	2309.5	5.7	B2/2500		
BH	(60°-80°)	968.9	2.4	B2/1000		G2/1000
BVH	(80°-90°)	112.3	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6160.2	6160.2	6160.2	6160.2	6160.2	6160.2	6160.2	6160.2	6160.2	6160.2	6160.2
2.5°	6279.9	6277.8	6261.3	6248.9	6238.6	6234.5	6242.7	6211.8	6185.0	6152.0	6116.9
5°	6232.4	6230.4	6203.5	6178.8	6154.0	6145.8	6143.7	6088.0	6055.0	6005.5	5939.5
7.5°	6180.8	6170.5	6135.5	6094.2	6050.9	6030.2	6009.6	5937.4	5900.3	5850.8	5774.4
10°	6127.2	6114.8	6081.8	6040.6	5999.3	5968.4	5933.3	5863.1	5823.9	5786.8	5698.1
12.5°	6071.5	6061.2	6052.9	6034.4	6005.5	5978.7	5951.9	5892.0	5850.8	5807.4	5704.3
15°	6063.3	6059.1	6077.7	6090.1	6073.6	6057.1	6028.2	5976.6	5933.3	5890.0	5755.9
17.5°	6129.3	6127.2	6174.7	6207.7	6199.4	6170.5	6131.3	6073.6	6038.5	6001.4	5834.3
20°	6273.7	6284.0	6341.8	6385.1	6343.8	6302.6	6238.6	6158.2	6139.6	6123.1	5914.7
22.5°	6546.0	6556.3	6597.6	6614.1	6506.8	6447.0	6358.3	6255.1	6242.7	6255.1	6011.7
25°	6971.0	6960.7	6954.5	6892.6	6696.6	6603.8	6490.3	6383.0	6389.2	6444.9	6147.8
27.5°	7534.2	7478.5	7391.8	7206.2	6894.7	6791.5	6653.3	6554.3	6593.5	6700.7	6352.1
30°	8118.0	8056.1	7856.0	7552.8	7154.6	7041.1	6886.4	6775.0	6878.2	7047.3	6624.4
32.5°	8658.6	8650.3	8357.3	7967.4	7513.6	7414.5	7259.8	7134.0	7301.1	7559.0	7032.9
35°	9248.6	9267.1	8916.4	8448.1	7998.4	7895.2	7783.8	7688.9	7911.7	8266.6	7625.0
37.5°	9879.9	9917.0	9502.3	8974.2	8551.3	8507.9	8441.9	8400.7	8745.2	9236.2	8452.2
40°	10723.6	10686.5	10110.9	9568.3	9230.0	9227.9	9207.3	9256.8	9830.4	10502.9	9514.7
42.5°	11627.3	11517.9	10756.7	10205.8	9974.8	10044.9	10086.2	10288.3	11136.3	12041.9	10810.3
45°	12601.0	12355.5	11427.1	10880.4	10802.0	10950.6	11090.9	11530.3	12673.2	13793.4	12229.7
47.5°	13378.8	13141.5	12120.3	11588.1	11759.3	11984.2	12254.4	12949.7	14393.8	15602.7	13630.5
50°	13991.5	13836.8	12819.7	12413.3	12813.5	13160.1	13601.6	14556.8	16184.5	17364.6	14928.1
52.5°	14585.6	14470.1	13525.2	13259.1	14051.3	14529.9	15130.3	16281.5	18020.6	19097.5	16019.5
55°	15122.0	15039.5	14284.4	14313.3	15507.8	16130.9	16885.9	18245.5	20021.7	20642.7	16943.7
57.5°	15726.5	15621.3	15150.9	15635.7	17379.0	18187.7	19169.7	20452.9	21899.1	22016.7	17647.2
60°	16335.1	16244.3	16112.3	17162.4	19755.6	20605.6	21536.0	22592.3	23803.3	23083.3	17605.9
62.5°	16863.2	16873.5	17106.7	18765.4	22082.7	23066.8	24201.4	25245.3	25525.9	23269.0	16304.2
65°	17758.6	17921.6	18616.8	21034.7	25358.8	26675.0	28067.6	27900.5	26002.5	21533.9	13512.9
67.5°	18823.1	19109.9	20518.9	24059.1	29499.3	31246.7	31785.2	28500.8	24094.2	17504.8	9632.3
70°	18715.8	19109.9	21340.0	26314.0	32911.6	34083.4	32449.5	25794.1	19132.6	11435.4	5116.3
72.5°	16619.8	17183.0	19666.9	25280.4	31836.7	31733.6	28170.7	19229.5	11367.3	4592.3	1999.1
75°	12667.0	13236.4	15373.7	19972.2	25162.8	24296.3	19988.7	10622.6	4313.8	1823.7	1260.5
77.5°	7286.6	7728.1	9378.5	12248.2	15963.8	15074.6	11125.9	4724.3	2100.2	1270.8	984.1
80°	4068.3	4313.8	5316.4	6213.9	7823.0	7171.1	4978.1	2935.7	1567.9	922.2	759.2
82.5°	3216.3	3435.0	4299.4	3919.8	3573.2	3296.7	2859.4	2613.9	1252.3	581.8	453.9
85°	2809.9	3018.2	3639.2	3086.3	2440.6	2238.4	2323.0	2572.6	973.8	350.7	387.9
87.5°	2603.5	2882.1	3243.1	2378.7	1900.1	1683.4	2143.5	2820.2	313.6	218.7	156.8
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°	6160.2	6160.2	6160.2	6160.2	6160.2	6160.2	6160.2	6160.2	6160.2	6160.2	6160.2
2.5°	6085.9	6052.9	5999.3	5951.9	5877.6	5838.4	5795.1	5764.1	5739.4	5718.7	5751.7
5°	5898.2	5836.3	5722.9	5601.1	5456.7	5343.3	5248.4	5159.6	5097.8	5056.5	5085.4
7.5°	5720.8	5619.7	5442.3	5221.5	4974.0	4763.5	4590.2	4437.6	4332.4	4264.3	4291.1
10°	5619.7	5493.9	5219.5	4872.9	4507.7	4179.7	3907.4	3672.2	3509.2	3416.4	3430.8
12.5°	5594.9	5432.0	5052.4	4575.8	4076.6	3620.6	3236.9	2910.9	2681.9	2562.3	2566.4
15°	5613.5	5405.1	4895.6	4291.1	3659.8	3084.2	2605.6	2209.5	1943.4	1807.2	1805.2
17.5°	5644.5	5384.5	4730.5	3983.7	3236.9	2568.5	2034.2	1646.3	1411.1	1301.8	1293.5
20°	5677.5	5351.5	4544.9	3651.6	2797.5	2089.9	1592.7	1289.4	1140.9	1081.0	1076.9
22.5°	5724.9	5322.6	4353.0	3300.9	2366.3	1702.0	1310.0	1105.8	1027.4	996.4	992.3
25°	5801.2	5308.2	4148.8	2935.7	1978.4	1423.5	1140.9	1015.0	969.6	949.0	946.9
27.5°	5929.2	5328.8	3956.9	2580.9	1662.8	1235.8	1046.0	969.6	936.6	918.0	916.0
30°	6094.2	5392.8	3754.7	2244.6	1417.3	1107.8	988.2	938.7	911.9	893.3	893.3
32.5°	6368.6	5500.0	3542.2	1953.7	1241.9	1019.1	944.9	911.9	889.2	874.7	872.7
35°	6772.9	5702.2	3344.2	1712.3	1116.1	955.2	907.7	883.0	866.5	858.2	858.2
37.5°	7360.9	6022.0	3168.8	1539.0	1039.8	911.9	872.7	854.1	843.8	843.8	843.8
40°	8151.0	6463.5	3026.5	1423.5	996.4	880.9	845.8	831.4	825.2	827.3	827.3
42.5°	9126.9	7037.0	2931.6	1343.0	975.8	862.3	827.3	814.9	808.7	806.6	808.7
45°	10238.8	7688.9	2921.3	1283.2	955.2	850.0	814.9	802.5	790.1	781.9	781.9
47.5°	11319.9	8351.2	3005.8	1262.6	932.5	835.5	804.6	792.2	773.6	755.1	755.1
50°	12275.0	8914.4	3119.3	1270.8	924.2	814.9	788.1	781.9	753.0	732.4	730.3
52.5°	13034.2	9347.6	3212.1	1295.6	932.5	800.5	767.4	769.5	738.6	715.9	713.8
55°	13642.8	9632.3	3187.4	1320.3	951.1	792.2	748.9	753.0	728.3	705.6	705.6
57.5°	13909.0	9527.1	2913.0	1299.7	965.5	794.3	734.4	750.9	730.3	709.7	709.7
60°	13337.5	8592.5	2399.3	1208.9	946.9	788.1	728.3	759.2	757.1	736.5	734.4
62.5°	11608.7	6919.4	1860.9	1074.8	883.0	757.1	711.7	757.1	779.8	773.6	771.6
65°	8947.4	4928.6	1421.4	930.4	796.3	705.6	668.4	709.7	740.6	748.9	746.8
67.5°	5807.4	3020.3	1095.5	794.3	699.4	645.7	612.7	631.3	637.5	637.5	633.4
70°	2855.2	1625.7	872.7	668.4	600.3	581.8	563.2	552.9	542.6	534.3	534.3
72.5°	1409.1	1062.5	717.9	565.3	517.8	509.6	505.4	493.1	484.8	474.5	470.4
75°	1041.8	864.4	610.7	476.6	445.6	437.4	445.6	435.3	433.2	425.0	420.9
77.5°	856.2	736.5	526.1	408.5	381.7	367.2	379.6	381.7	383.7	371.3	367.2
80°	695.2	623.0	439.4	338.3	313.6	303.3	311.5	328.0	332.1	313.6	305.3
82.5°	501.3	509.6	354.8	264.1	243.4	235.2	251.7	272.3	276.4	249.6	243.4
85°	420.9	425.0	272.3	187.7	167.1	154.7	181.5	202.2	216.6	189.8	183.6
87.5°	175.4	249.6	156.8	105.2	92.8	80.5	97.0	107.3	130.0	119.7	117.6
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)