

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: P383589

Luminaire Tested: **GLEON-SA8D-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8D-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 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: 55044.2 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

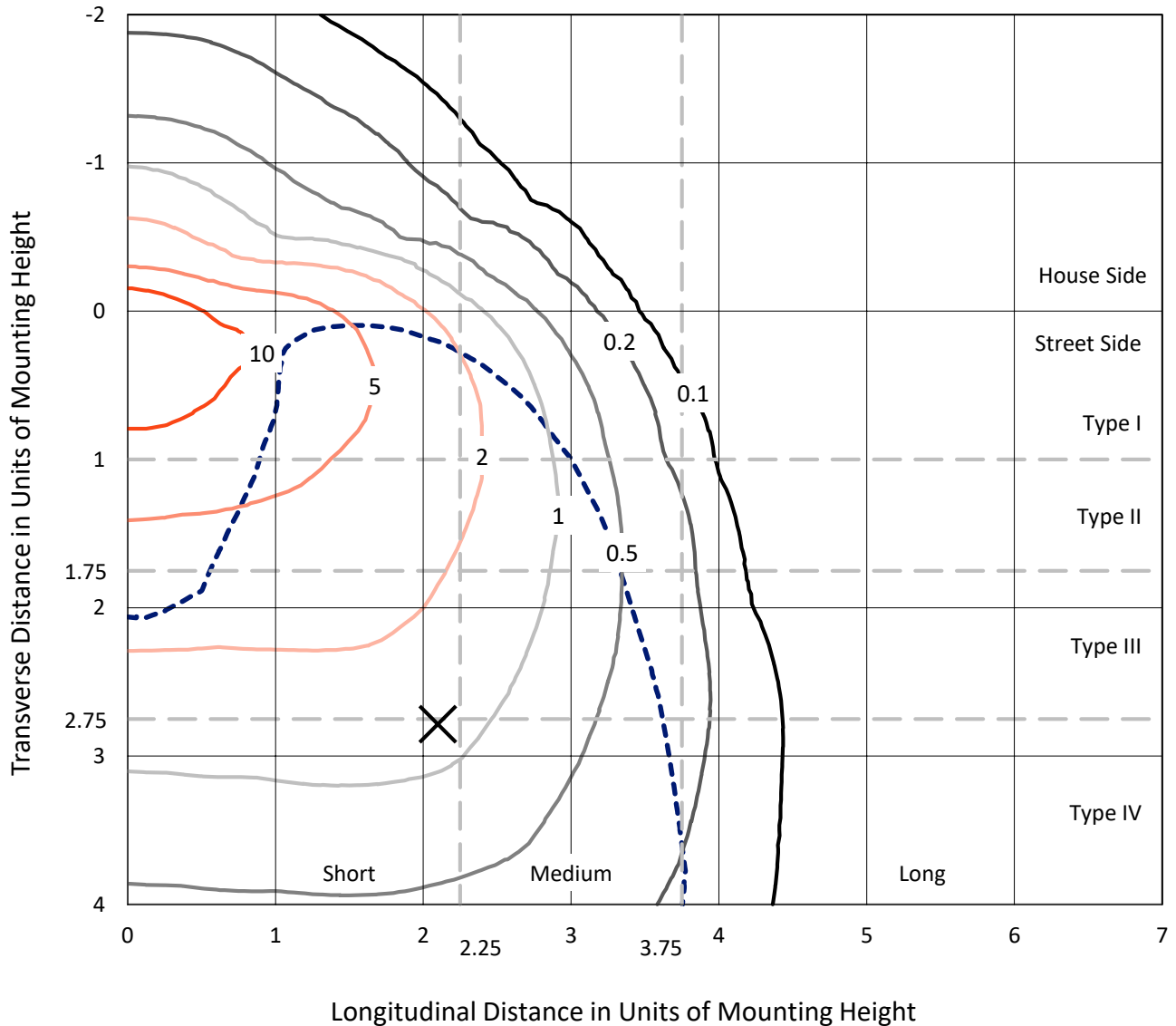
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

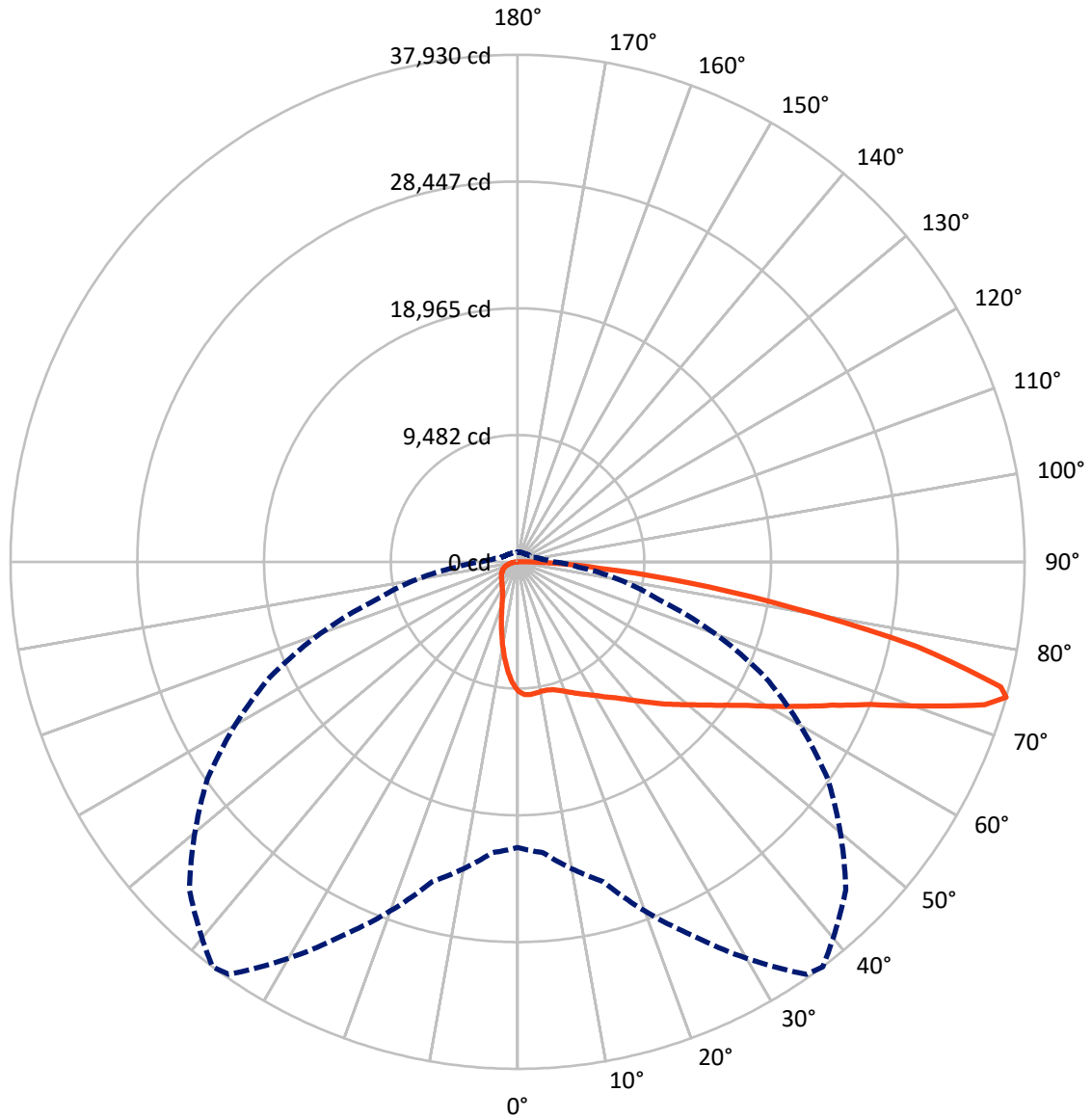
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7573.7	0.0	7573.7
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	47470.5	0.0	47470.5
	% Fixture	86.2	0.0	86.2
Total	Lumens	55044.2	0.0	55044.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	854.1	1.6
10°-20°	2189.2	4.0
20°-30°	3373.1	6.1
30°-40°	4905.0	8.9
40°-50°	7219.4	13.1
50°-60°	10138.3	18.4
60°-70°	12832.0	23.3
70°-80°	11299.0	20.5
80°-90°	2234.1	4.1
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°	55044.2	100.0
0°-180°	55044.2	100.0

Coefficient of Utilization

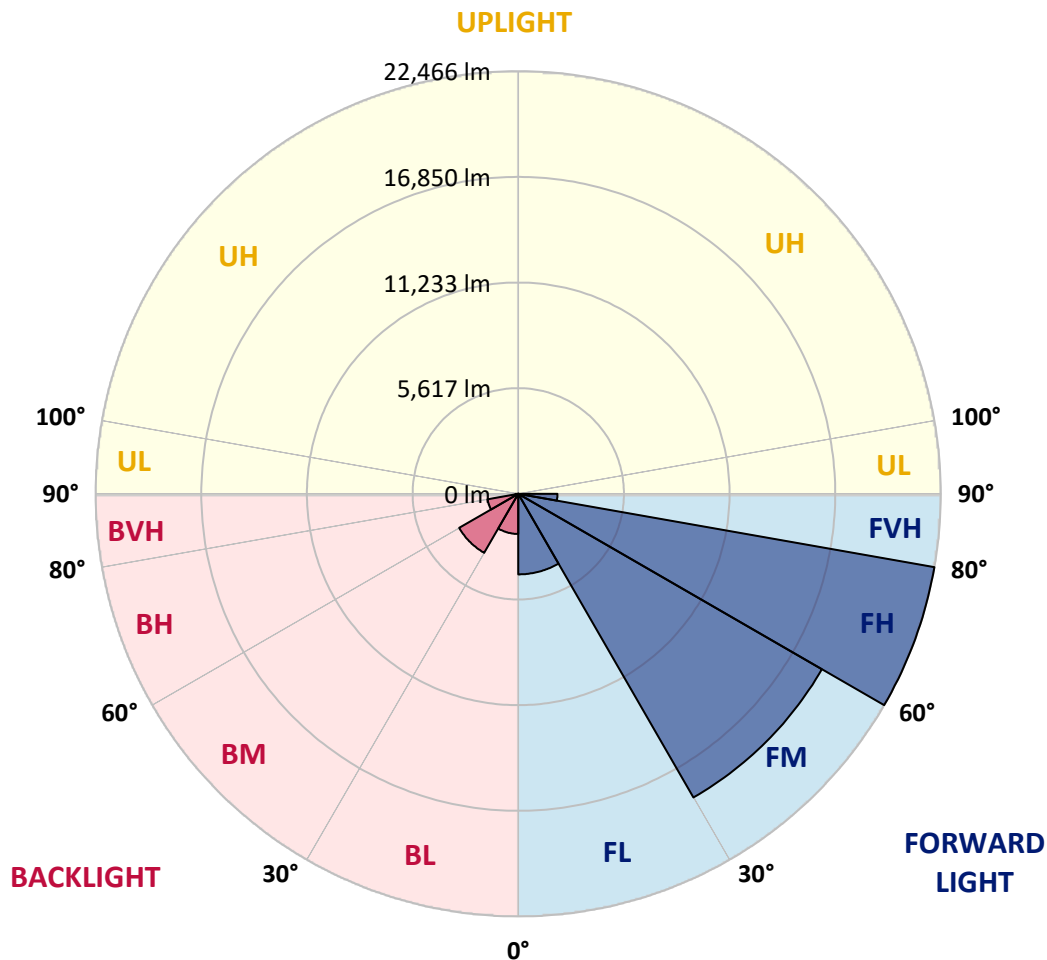


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4283.1	7.8			
FM (30°-60°)	18638.4	33.9			
FH (60°-80°)	22466.2	40.8			G5
FVH (80°-90°)	2082.8	3.8			G5
BL (0°-30°)	2133.3	3.9	B3/2500		
BM (30°-60°)	3624.3	6.6	B3/5000		
BH (60°-80°)	1664.8	3.0	B3/2500		G3/2500
BVH (80°-90°)	151.3	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°	37°	45°	55°	65°	75°	85°
0°	9698.6	9698.6	9698.6	9698.6	9698.6	9698.6	9698.6	9698.6	9698.6	9698.6	9698.6
2.5°	10030.2	10032.1	10030.2	10014.6	9977.8	9946.8	9921.5	9884.7	9803.2	9741.2	9648.1
5°	10125.2	10113.5	10105.8	10076.6	10018.5	9983.6	9935.1	9865.4	9731.5	9607.4	9456.2
7.5°	10080.6	10067.0	10049.5	10014.6	9948.7	9919.6	9851.8	9760.7	9599.7	9436.9	9219.6
10°	9942.9	9939.0	9931.2	9923.5	9867.2	9844.0	9782.0	9685.0	9526.0	9328.2	9074.2
12.5°	9789.7	9799.4	9830.4	9871.1	9845.9	9834.3	9795.5	9729.6	9566.7	9353.5	9047.1
15°	9692.8	9719.9	9803.2	9909.9	9931.2	9927.4	9917.7	9875.1	9702.4	9465.9	9109.1
17.5°	9659.8	9704.4	9863.4	10039.8	10101.9	10115.5	10119.3	10045.6	9853.7	9603.6	9173.1
20°	9719.9	9776.1	10008.8	10251.2	10350.1	10357.8	10340.4	10212.4	9997.2	9721.8	9208.1
22.5°	9902.2	9952.6	10243.4	10516.8	10629.2	10640.9	10588.5	10394.7	10148.4	9861.5	9256.5
25°	10253.1	10315.1	10606.0	10879.4	10937.6	10939.5	10863.9	10623.5	10346.1	10057.3	9361.2
27.5°	10710.7	10772.8	11034.5	11302.1	11271.1	11253.7	11150.8	10910.4	10604.1	10326.8	9547.3
30°	11220.7	11288.5	11536.7	11726.7	11653.0	11618.2	11534.8	11224.5	10962.7	10695.2	9832.4
32.5°	11748.0	11810.1	12027.2	12157.2	12064.1	12048.5	11922.5	11639.5	11430.1	11257.5	10293.8
35°	12289.0	12333.6	12546.9	12620.5	12496.4	12492.6	12457.7	12197.9	12066.1	12147.5	10964.7
37.5°	12841.6	12853.2	13035.5	13039.3	13002.5	13018.0	13054.9	12892.0	12928.9	13182.9	11837.3
40°	13334.1	13365.1	13497.0	13537.7	13601.6	13655.9	13840.2	13733.5	14018.6	14468.3	12923.1
42.5°	13698.6	13758.7	13970.0	14074.8	14282.2	14367.5	14627.3	14726.3	15300.2	15974.9	14214.4
45°	14006.9	14100.0	14439.3	14654.5	15005.5	15154.8	15527.0	15858.6	16748.6	17609.4	15573.5
47.5°	14340.4	14458.6	14883.3	15294.3	15771.4	15940.0	16616.8	17113.1	18293.9	19253.7	16855.2
50°	14831.0	14922.1	15337.0	15982.7	16577.9	16795.1	17731.6	18443.2	19864.4	20820.4	17966.2
52.5°	15515.4	15480.5	15831.5	16736.9	17535.7	17803.4	18922.2	19858.6	21456.3	22237.7	18904.6
55°	16203.7	16145.6	16391.8	17526.0	18652.6	18933.7	20232.8	21279.9	22970.7	23513.6	19624.0
57.5°	16969.6	16859.1	17066.5	18416.0	19924.6	20259.9	21700.6	22790.3	24459.7	24545.1	20081.6
60°	17758.7	17609.4	17842.1	19519.3	21539.7	21935.2	23418.5	24263.9	25863.5	25371.1	20228.9
62.5°	18449.0	18344.3	18703.1	20750.5	23360.3	23794.7	25105.4	25830.6	27248.0	25714.3	19697.7
65°	19052.0	19069.4	19689.9	22135.0	25390.4	25853.8	27040.5	27761.7	28337.6	25510.6	18454.8
67.5°	19771.4	19870.3	20928.9	23957.5	27946.0	28453.9	29855.8	29867.5	28946.4	24316.3	16007.9
70°	20820.4	21023.9	22633.3	26485.9	31579.6	32277.6	33359.5	31104.5	28091.4	21078.2	12595.4
72.5°	21751.0	22131.1	24446.1	29378.8	36008.0	36537.3	35409.0	30390.9	24517.9	15796.5	7846.9
74°	21373.0	21844.1	24775.8	30804.0	37675.5	37929.5	34716.7	28308.5	20442.3	10939.5	4560.4
75°	20558.6	21070.5	24294.9	30790.3	37464.2	37322.6	33045.3	25929.4	16835.9	7461.0	3034.4
77.5°	16591.5	17132.5	20471.3	26389.0	30718.6	30584.9	25384.6	17394.2	7373.8	2446.9	1541.4
80°	9646.3	10059.2	12707.8	16758.3	20713.7	20956.1	16694.3	8606.9	2900.7	1374.7	1045.1
82.5°	4285.0	4570.1	6138.7	8554.6	12500.3	12812.5	8742.7	4510.0	1791.6	835.7	628.2
85°	2811.5	3022.8	3726.7	4073.8	5952.6	6165.8	4279.3	3511.4	1182.8	459.5	461.5
87.5°	2022.3	2225.9	2768.8	2417.8	2731.9	2586.5	2328.7	3249.7	475.0	261.8	155.1
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°	9698.6	9698.6	9698.6	9698.6	9698.6	9698.6	9698.6	9698.6	9698.6	9698.6	9698.6
2.5°	9607.4	9576.4	9506.6	9374.8	9301.1	9239.1	9136.2	9076.2	9049.1	9047.1	9058.7
5°	9368.9	9297.2	9116.9	8895.8	8719.4	8558.5	8358.8	8238.5	8153.3	8102.8	8116.4
7.5°	9091.7	8979.2	8696.2	8343.2	8060.2	7748.0	7439.7	7255.5	7112.0	7005.4	7024.8
10°	8901.7	8746.6	8333.5	7825.6	7354.4	6900.7	6476.0	6222.1	6020.4	5865.3	5876.9
12.5°	8837.7	8628.3	8056.3	7377.7	6716.5	6096.0	5541.5	5151.7	4944.3	4767.8	4781.4
15°	8847.4	8566.2	7823.6	6974.4	6142.5	5361.1	4688.4	4232.7	3951.5	3829.4	3831.4
17.5°	8855.1	8494.5	7579.4	6542.0	5574.5	4674.8	3943.8	3482.3	3216.7	3104.3	3106.2
20°	8830.0	8378.2	7276.9	6045.7	4981.2	4044.6	3336.9	2945.3	2743.6	2656.3	2656.3
22.5°	8797.0	8240.5	6935.6	5547.3	4395.6	3497.9	2902.6	2604.0	2487.7	2429.5	2427.5
25°	8812.4	8137.7	6586.6	5035.4	3856.5	3061.6	2613.7	2415.9	2338.4	2301.5	2299.6
27.5°	8895.8	8089.3	6264.8	4525.5	3385.4	2733.9	2419.8	2280.1	2229.8	2206.6	2206.6
30°	9047.1	8089.3	5929.3	4091.2	2993.7	2491.5	2270.5	2175.5	2140.6	2125.0	2125.0
32.5°	9310.8	8133.8	5605.5	3660.7	2681.6	2301.5	2146.4	2082.4	2055.3	2047.5	2047.5
35°	9764.5	8285.1	5289.4	3253.5	2429.5	2146.4	2028.2	1991.3	1971.9	1969.9	1975.8
37.5°	10402.4	8593.3	4992.8	2953.0	2251.1	2020.3	1929.2	1900.2	1888.5	1898.2	1905.9
40°	11205.1	9012.2	4723.2	2681.6	2115.4	1919.5	1838.1	1818.8	1812.9	1826.5	1838.1
42.5°	12174.6	9578.4	4502.3	2485.7	2010.7	1834.2	1760.5	1737.3	1731.5	1747.0	1762.5
45°	13223.6	10187.2	4347.1	2340.3	1929.2	1770.2	1692.7	1667.5	1655.8	1663.7	1681.1
47.5°	14177.5	10763.1	4285.0	2237.6	1851.7	1716.0	1632.6	1601.6	1582.1	1578.3	1591.8
50°	14982.2	11191.5	4314.2	2175.5	1789.6	1655.8	1574.4	1539.5	1510.4	1493.0	1502.7
52.5°	15567.7	11461.1	4341.3	2148.3	1741.2	1590.0	1510.4	1477.4	1438.7	1409.6	1409.6
55°	15992.3	11523.2	4281.2	2127.0	1704.4	1518.2	1438.7	1407.7	1368.9	1335.9	1332.0
57.5°	16159.1	11348.6	4058.2	2096.0	1679.1	1450.3	1363.0	1339.8	1306.9	1268.0	1266.2
60°	15934.2	10809.6	3627.7	2030.0	1646.1	1394.1	1287.5	1271.9	1256.5	1219.6	1217.6
62.5°	15030.7	9626.8	3071.3	1896.3	1580.3	1334.0	1217.6	1225.5	1227.3	1202.2	1198.2
65°	13392.3	8002.0	2528.4	1721.8	1481.3	1262.2	1145.9	1182.8	1204.1	1200.2	1194.4
67.5°	11011.3	6227.9	2142.6	1537.6	1351.4	1163.4	1068.4	1111.1	1128.5	1142.1	1138.2
70°	8172.7	4391.7	1772.2	1343.7	1194.4	1047.1	967.5	988.8	977.2	992.8	998.5
72.5°	4556.5	2635.0	1444.6	1149.8	1031.5	911.3	855.1	851.2	826.0	826.0	826.0
74°	2733.9	1933.1	1270.0	1029.5	932.7	822.1	773.7	756.2	732.9	734.9	732.9
75°	2198.7	1661.7	1165.3	950.1	862.8	769.7	721.3	698.0	680.6	680.6	678.6
77.5°	1388.3	1262.2	938.4	756.2	690.3	634.0	601.0	570.0	570.0	568.2	566.2
80°	1048.9	1004.4	731.0	572.0	529.3	486.6	465.3	451.8	451.8	457.6	455.6
82.5°	719.3	756.2	513.8	399.4	378.1	347.1	343.2	345.1	339.3	331.5	329.6
85°	525.5	568.2	347.1	252.1	230.7	211.4	226.8	234.7	224.9	207.5	199.7
87.5°	201.7	372.2	186.1	104.7	97.0	83.4	97.0	100.8	108.6	85.3	87.3
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)