

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: P269592

Luminaire Tested: **GLEON-AF-08-LED-E1-T3R-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46486.9 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full 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

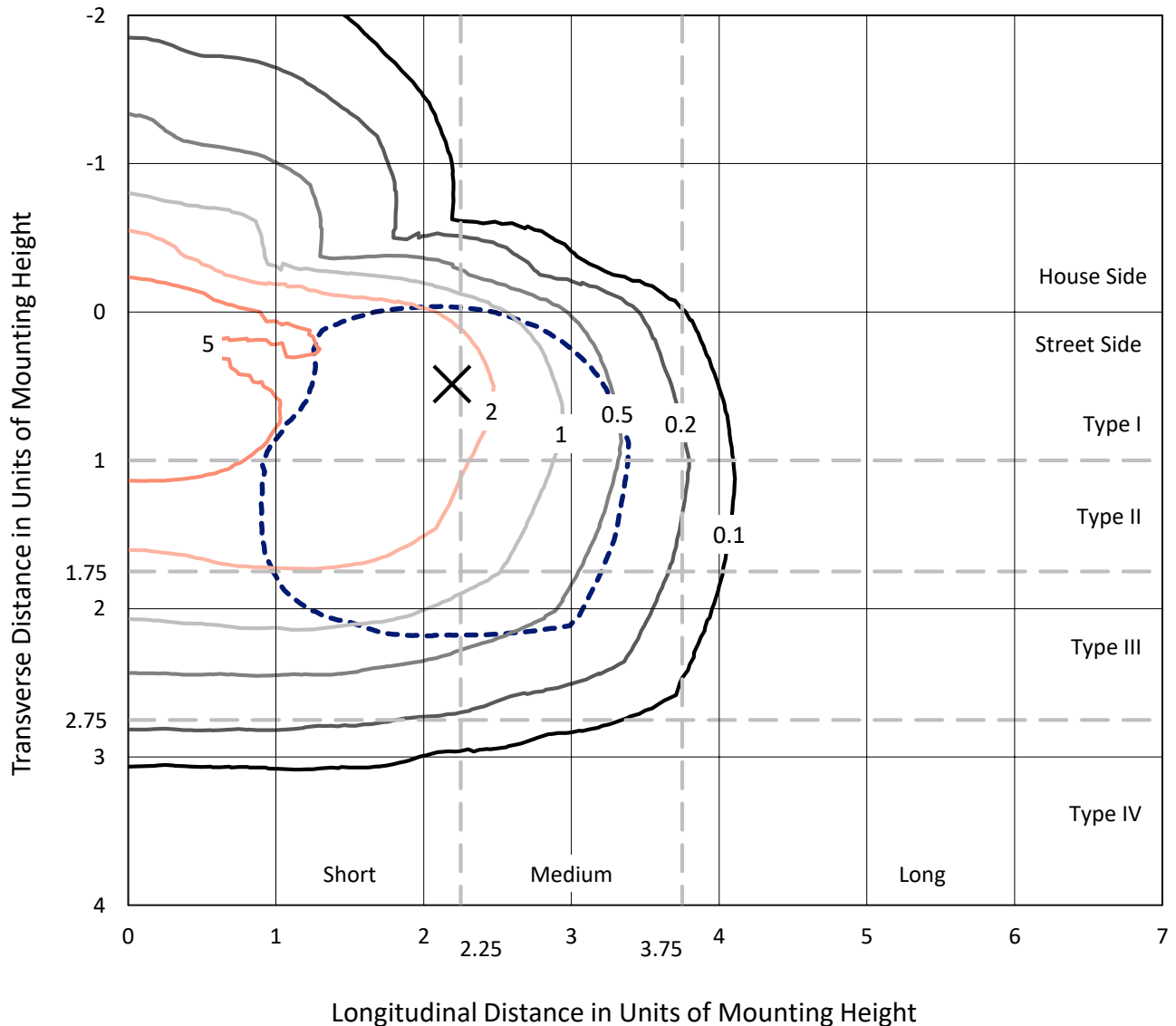


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

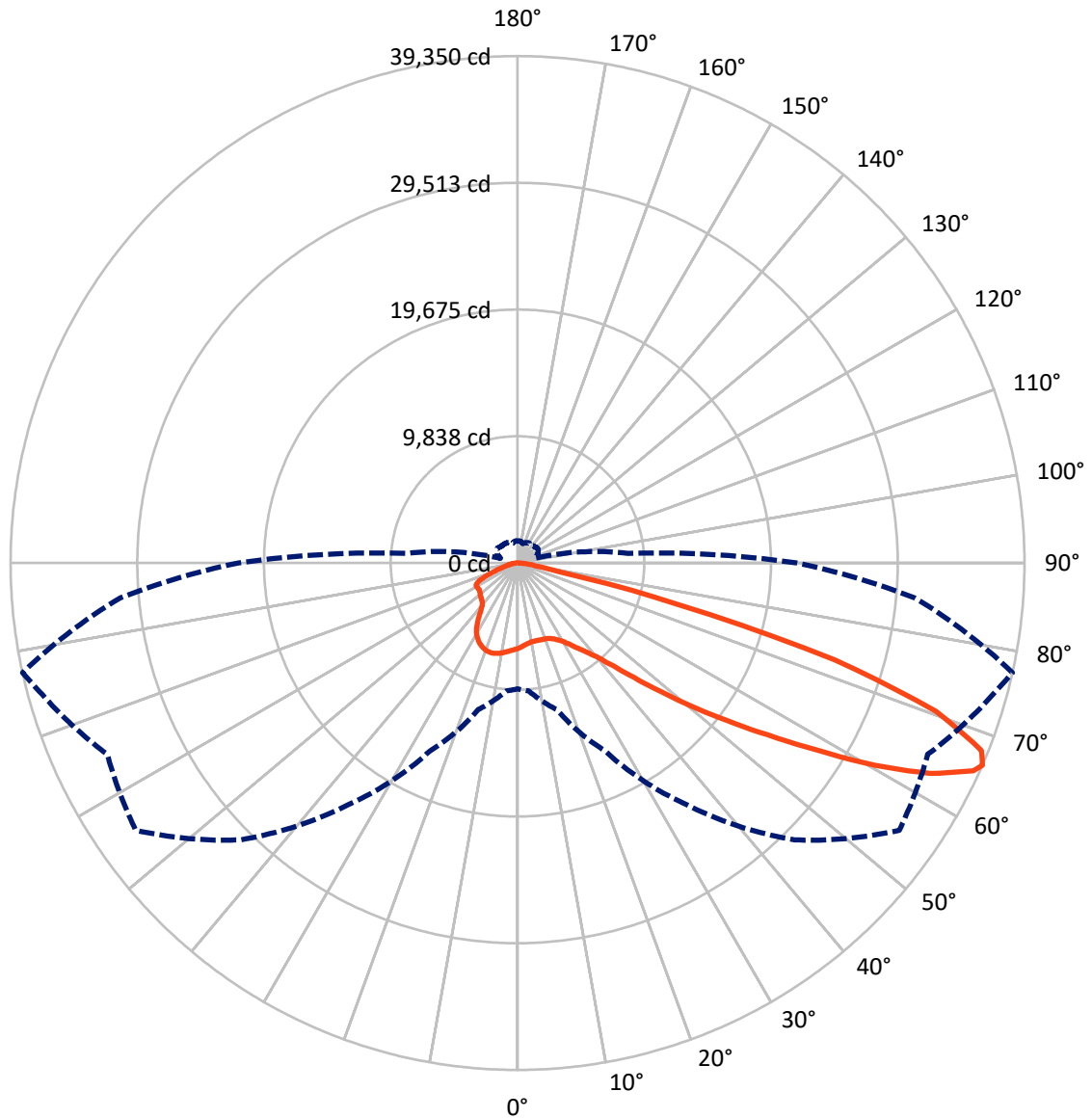


Based on 30 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7942.0	0.0	7942.0
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	38544.9	0.0	38544.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	46486.9	0.0	46486.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.9	1.3
10°-20°	1669.7	3.6
20°-30°	2849.6	6.1
30°-40°	4561.7	9.8
40°-50°	7047.5	15.2
50°-60°	9995.7	21.5
60°-70°	13371.6	28.8
70°-80°	5807.0	12.5
80°-90°	592.1	1.3
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°	46486.9	100.0
0°-180°	46486.9	100.0



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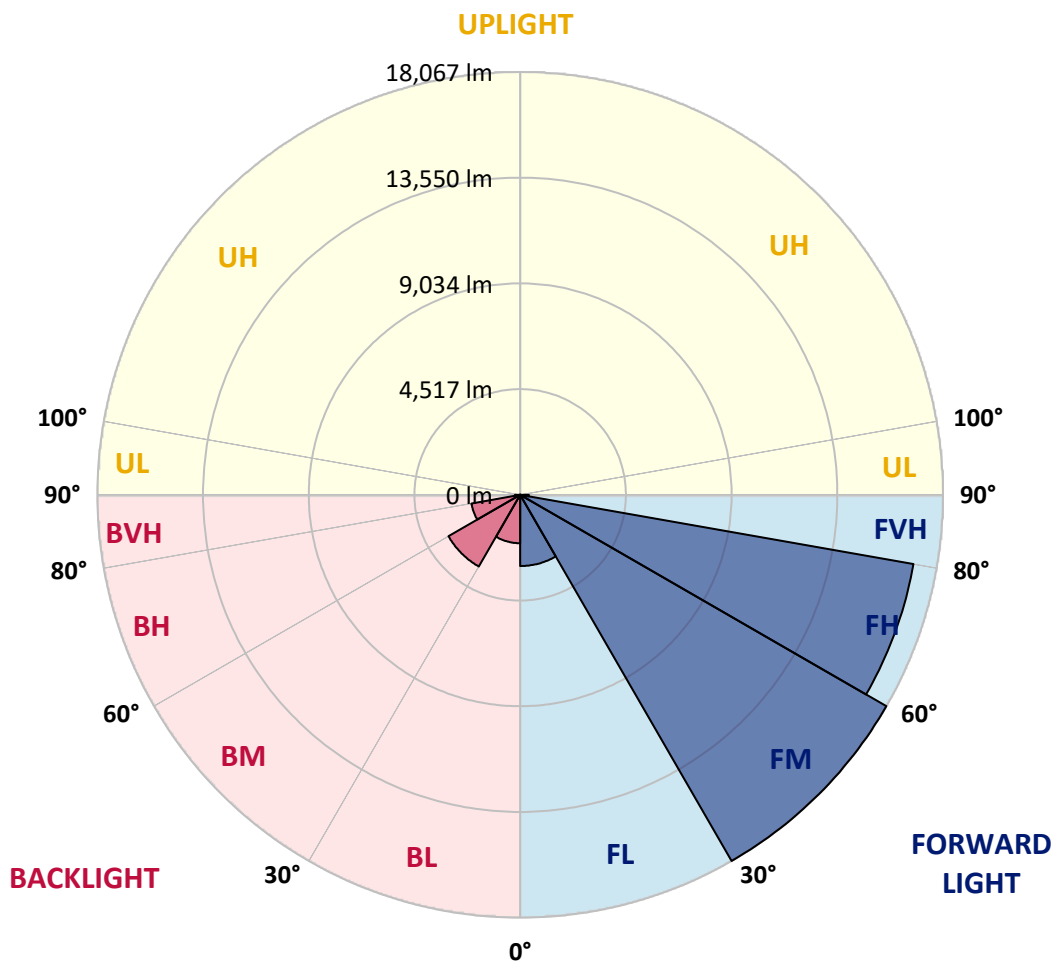
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3042.8	6.5			
FM	(30°-60°)	18067.2	38.9			
FH	(60°-80°)	17063.5	36.7			G5
FVH	(80°-90°)	371.4	0.8			G3/500
BL	(0°-30°)	2068.4	4.4	B3/2500		
BM	(30°-60°)	3537.7	7.6	B3/5000		
BH	(60°-80°)	2115.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	220.8	0.5			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	6624.6	6624.6	6624.6	6624.6	6624.6	6624.6	6624.6	6624.6	6624.6	6624.6	6624.6
2.5°	5860.3	5899.8	5932.6	5963.5	6024.9	6126.0	6242.4	6336.9	6473.0	6499.3	6571.9
5°	5322.1	5322.1	5348.5	5394.6	5478.0	5629.6	5787.7	5998.6	6295.1	6365.4	6558.7
7.5°	5060.7	5062.8	5078.3	5117.9	5190.2	5328.7	5502.2	5750.4	6152.3	6268.8	6598.2
10°	5157.3	5135.4	5102.5	5082.7	5093.7	5175.0	5339.6	5616.5	6064.5	6213.8	6686.2
12.5°	5697.7	5656.0	5541.7	5390.2	5245.3	5185.9	5282.6	5552.8	6027.2	6200.7	6802.5
15°	6580.7	6563.0	6350.1	6035.9	5684.6	5390.2	5324.3	5528.6	6031.6	6216.0	6940.9
17.5°	7687.8	7663.5	7382.5	6925.6	6352.3	5778.9	5471.4	5548.3	6046.9	6242.4	7075.0
20°	8805.7	8731.0	8427.9	7883.2	7147.4	6308.3	5715.2	5598.9	6066.8	6271.0	7215.5
22.5°	9640.4	9578.8	9306.5	8777.2	7929.2	6921.1	6042.4	5686.7	6130.5	6354.4	7389.0
25°	10373.9	10378.4	10108.3	9596.5	8720.0	7571.3	6464.3	5921.7	6292.9	6525.7	7626.3
27.5°	11281.2	11228.5	10975.9	10468.5	9502.0	8228.0	6973.8	6244.6	6534.5	6769.5	7938.1
30°	12366.2	12328.9	12036.7	11461.2	10369.7	8933.1	7556.0	6620.1	6846.4	7090.2	8346.6
32.5°	13642.4	13624.9	13321.7	12581.5	11371.3	9763.4	8239.1	7116.6	7312.2	7564.6	8933.1
35°	15140.4	15142.5	14784.6	13895.0	12467.2	10729.9	9014.4	7755.7	7878.9	8142.3	9631.5
37.5°	16063.0	16174.9	16040.9	15133.7	13708.2	11810.5	10020.4	8603.6	8524.6	8790.4	10380.6
40°	16260.6	16396.8	16820.8	16359.5	15096.5	13001.0	10912.2	9418.5	9319.6	9644.7	11344.9
42.5°	15983.8	16172.7	17068.9	17394.1	16570.2	14468.2	12111.4	10628.7	10503.6	10940.6	12544.1
45°	15819.2	15959.6	16996.4	17932.1	17848.7	16126.6	13638.0	12148.8	12102.7	12676.0	13928.0
47.5°	15533.5	15661.0	16658.2	18057.3	18599.9	17646.6	15472.0	14007.0	14097.0	14848.3	15489.7
50°	15687.3	15740.0	16280.3	17738.8	18817.2	18760.3	17521.4	16159.5	16467.1	17405.0	17257.8
52.5°	15665.4	15801.5	16236.4	17216.0	18845.8	19447.6	19539.9	18560.3	19208.3	20284.5	19219.2
55°	12664.9	12915.3	15720.2	17084.2	18947.0	20122.0	21336.6	21090.6	22298.7	23552.9	21433.3
57.5°	12093.8	12252.1	13807.0	17361.1	19482.8	21409.1	23335.5	23875.8	25896.6	27352.9	24130.6
60°	11981.9	12177.3	13787.4	17699.2	20570.1	23506.8	26298.5	27247.4	30274.1	31868.8	27258.3
62.5°	11632.6	11843.4	13657.7	17655.4	22114.2	26408.4	30091.9	30832.0	34425.6	35976.2	29874.5
65°	10525.6	10723.2	12601.2	16945.8	23155.4	29505.4	34581.5	34118.0	37702.8	38869.0	31179.1
66°	9767.8	9961.0	11768.8	16111.2	22913.7	30384.0	36171.7	35135.0	38436.3	39350.1	30924.3
67.5°	8381.7	8533.4	10152.1	14242.0	21628.9	30630.0	37509.4	35899.3	38513.3	38836.1	29468.1
70°	5295.7	5339.6	6598.2	9831.5	16372.6	26564.3	35473.3	34001.6	35337.0	34462.8	24703.8
72.5°	2297.5	2282.1	3167.3	5001.5	9269.3	17824.4	28694.9	28055.8	27719.7	25725.2	17292.9
75°	1278.4	1296.0	1645.2	2321.7	3767.0	8755.2	18771.2	17962.9	15166.8	12941.7	7841.5
77.5°	1025.8	1049.8	1364.0	1647.3	1691.2	3053.1	8783.7	7147.4	4302.9	3452.8	2178.8
80°	810.5	854.5	1190.6	1282.8	1139.9	1258.5	2837.8	2268.9	1702.3	1561.8	1129.0
82.5°	641.4	672.1	1021.4	970.9	797.3	847.8	1359.7	1324.6	1107.0	1008.2	652.3
85°	461.3	518.4	839.0	731.4	522.8	571.1	902.7	865.3	634.8	518.4	287.7
87.5°	189.0	246.0	593.1	485.4	292.0	265.8	450.3	423.9	300.9	219.6	142.8
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°	6624.6	6624.6	6624.6	6624.6	6624.6	6624.6	6624.6	6624.6	6624.6	6624.6	6624.6
2.5°	6618.1	6670.8	6738.8	6780.5	6802.5	6817.9	6842.1	6839.9	6846.4	6848.7	6857.4
5°	6661.9	6749.9	6848.7	6875.0	6875.0	6850.8	6826.7	6787.1	6771.8	6767.4	6771.8
7.5°	6776.2	6872.8	6958.5	6927.6	6861.9	6765.1	6640.0	6530.1	6470.9	6451.1	6446.6
10°	6921.1	7037.5	7072.6	6956.2	6763.0	6530.1	6281.9	6101.8	5998.6	5970.0	5961.2
12.5°	7096.8	7206.7	7158.4	6912.4	6554.4	6178.7	5836.1	5548.3	5333.1	5265.0	5260.6
15°	7290.1	7375.9	7206.7	6776.2	6242.4	5688.8	5078.3	4581.9	4313.9	4228.2	4221.7
17.5°	7470.2	7514.2	7178.1	6538.9	5783.4	4887.1	4076.7	3694.5	3602.3	3624.2	3628.7
20°	7624.0	7624.0	7081.5	6198.5	5060.7	3830.6	3318.9	3312.3	3378.2	3444.1	3457.2
22.5°	7793.2	7692.0	6912.4	5717.4	4037.2	3134.4	3059.6	3121.3	3195.9	3268.4	3279.4
25°	8001.8	7747.1	6677.3	4988.2	3173.9	2846.6	2875.1	2925.7	2963.1	3009.2	3015.8
27.5°	8234.7	7817.3	6367.6	3984.4	2754.5	2666.4	2688.4	2706.1	2701.7	2719.3	2723.7
30°	8513.5	7898.5	5943.6	3114.7	2580.9	2512.7	2473.3	2457.9	2457.9	2486.4	2497.4
32.5°	8887.0	8019.3	5335.3	2668.8	2497.4	2403.0	2275.5	2218.5	2240.5	2337.1	2358.9
35°	9297.7	8149.0	4511.6	2517.2	2479.9	2352.4	2154.8	2049.4	2051.5	2141.6	2170.1
37.5°	9745.8	8313.8	3608.9	2488.7	2519.3	2354.6	2091.1	1946.1	1886.8	1886.8	1897.8
40°	10319.1	8482.9	2921.3	2508.3	2602.7	2381.0	2058.0	1864.8	1697.8	1702.3	1711.0
42.5°	11066.0	8627.9	2552.4	2550.1	2703.9	2416.1	2056.0	1757.2	1612.2	1711.0	1801.1
45°	11896.2	8700.3	2389.9	2587.5	2785.1	2438.1	2020.7	1739.6	1623.1	1917.5	2088.9
47.5°	12851.6	8658.6	2299.8	2600.7	2804.9	2438.1	1981.2	1781.3	1700.1	2220.6	2420.6
50°	13899.4	8537.8	2211.8	2574.4	2798.3	2433.7	2018.6	1823.1	1728.7	2273.4	2411.7
52.5°	15131.6	8436.7	2119.6	2517.2	2752.1	2409.6	2062.5	1805.6	1638.6	2066.9	2163.6
55°	16537.3	8465.3	2016.3	2435.9	2679.7	2363.4	2047.1	1735.3	1544.1	1820.9	1880.2
57.5°	18334.0	8805.7	1893.4	2332.7	2580.9	2286.5	1992.3	1702.3	1515.6	1651.8	1686.8
60°	20339.5	9398.7	1739.6	2229.5	2457.9	2163.6	1950.5	1717.6	1528.7	1638.6	1656.1
62.5°	21811.0	9743.6	1607.8	2077.9	2290.9	2027.4	1897.8	1737.4	1563.9	1684.7	1680.3
65°	22210.9	9176.9	1443.0	1856.1	2064.8	1884.6	1831.9	1759.4	1579.3	1722.1	1702.3
66°	21650.8	8566.2	1370.6	1752.9	1950.5	1814.2	1798.9	1757.2	1572.8	1726.5	1693.5
67.5°	20291.2	7314.3	1245.4	1601.3	1768.1	1708.8	1746.2	1737.4	1555.1	1722.1	1675.9
70°	16548.3	4990.4	1065.3	1333.3	1471.7	1504.7	1645.2	1667.2	1498.1	1645.2	1544.1
72.5°	11562.4	3040.0	942.3	1034.6	1190.6	1282.8	1506.7	1570.4	1421.1	1436.5	1339.8
75°	5587.8	1614.4	854.5	801.6	924.7	1071.9	1339.8	1438.6	1300.3	1201.5	1166.3
77.5°	1741.9	986.2	724.8	645.8	724.8	865.3	1120.1	1260.9	1157.6	1006.0	992.7
80°	935.8	724.8	557.8	518.4	573.3	678.7	880.8	1052.2	995.1	902.7	806.0
82.5°	617.2	470.1	413.0	401.9	437.0	518.4	654.5	872.1	872.1	773.3	562.2
85°	318.4	287.7	283.3	283.3	305.3	344.9	445.9	672.1	716.0	408.5	338.2
87.5°	158.1	164.7	153.8	160.3	171.3	169.2	213.1	338.2	404.1	248.2	206.5
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)