

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: P194027

Luminaire Tested: **GLEON-AF-09-LED-E1-T3R-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194027
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-09-LED-E1-T3R-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35871 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 374
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

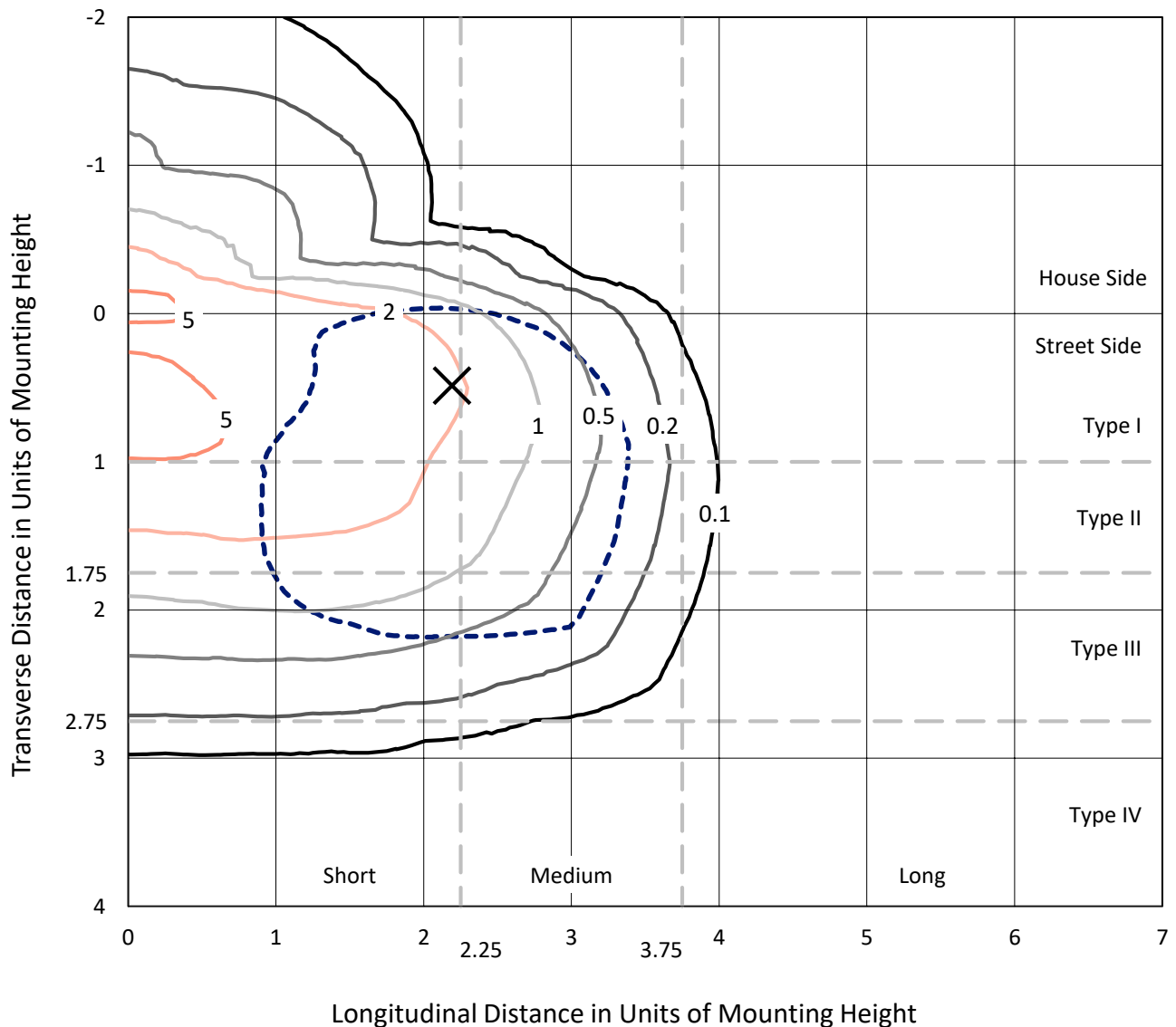


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

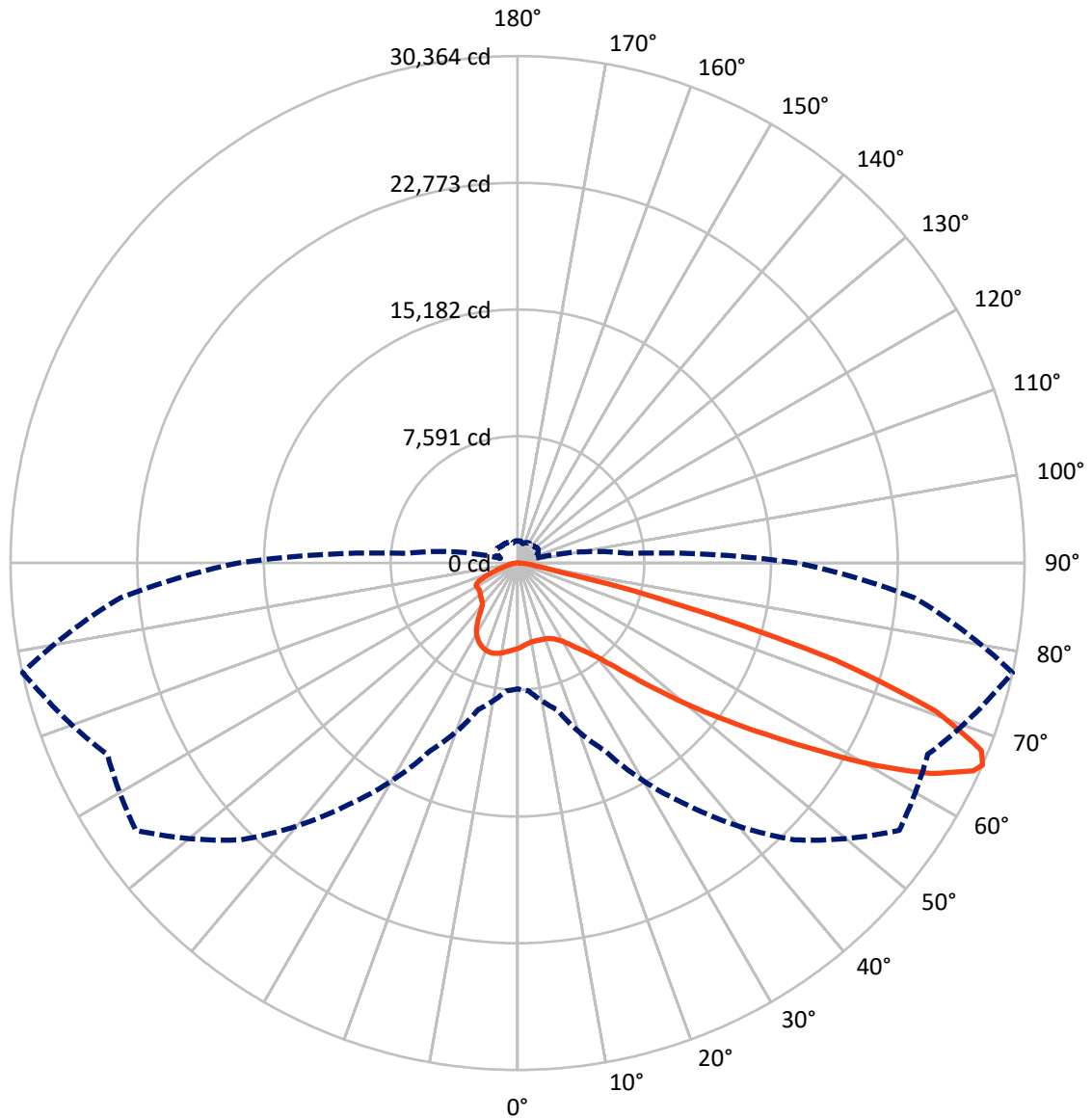


Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - Full Cutoff

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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	6128.3	0.0	6128.3
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	29742.7	0.0	29742.7
	% Fixture	82.9	0.0	82.9
Total	Lumens	35871.0	0.0	35871.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.7	1.3
10°-20°	1288.4	3.6
20°-30°	2198.9	6.1
30°-40°	3520.0	9.8
40°-50°	5438.1	15.2
50°-60°	7713.1	21.5
60°-70°	10318.0	28.8
70°-80°	4480.9	12.5
80°-90°	456.9	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°	35871.0	100.0
0°-180°	35871.0	100.0

Coefficient of Utilization



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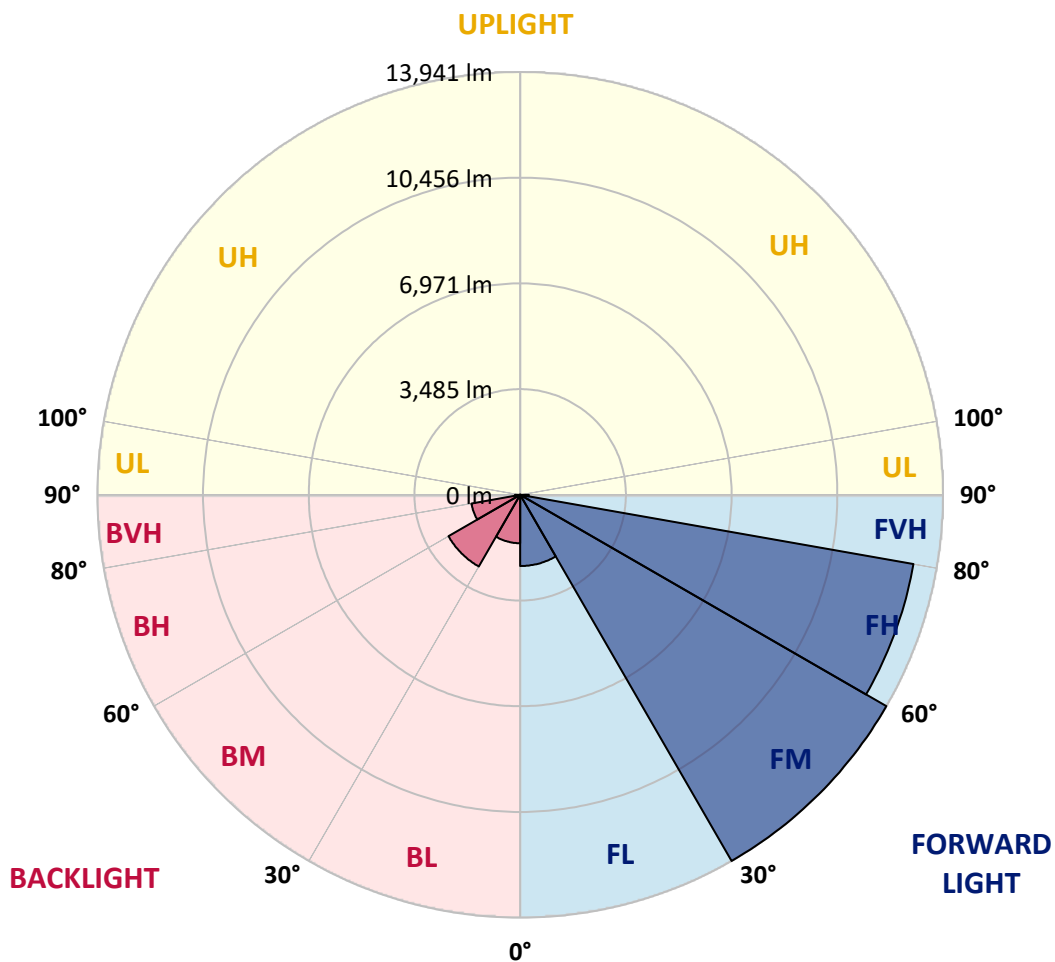
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2347.9	6.5			
FM	(30°-60°)	13941.3	38.9			
FH	(60°-80°)	13166.8	36.7			G5
FVH	(80°-90°)	286.6	0.8			G3/500
BL	(0°-30°)	1596.1	4.4	B3/2500		
BM	(30°-60°)	2729.8	7.6	B3/5000		
BH	(60°-80°)	1632.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	170.3	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°	5111.8	5111.8	5111.8	5111.8	5111.8	5111.8	5111.8	5111.8	5111.8	5111.8	5111.8
2.5°	4522.0	4552.5	4577.9	4601.6	4649.1	4727.0	4816.9	4889.8	4994.8	5015.2	5071.1
5°	4106.7	4106.7	4127.1	4162.6	4227.1	4344.0	4466.0	4628.7	4857.6	4911.8	5060.9
7.5°	3905.0	3906.7	3918.6	3949.1	4005.0	4111.8	4245.7	4437.2	4747.4	4837.2	5091.4
10°	3979.6	3962.7	3937.2	3922.0	3930.4	3993.2	4120.3	4333.8	4679.6	4794.8	5159.2
12.5°	4396.5	4364.3	4276.2	4159.3	4047.4	4001.6	4076.2	4284.7	4650.8	4784.7	5249.1
15°	5077.9	5064.3	4899.9	4657.6	4386.4	4159.3	4108.4	4266.0	4654.2	4796.5	5355.9
17.5°	5932.1	5913.5	5696.5	5344.0	4901.6	4459.3	4222.0	4281.3	4666.0	4816.9	5459.2
20°	6794.8	6737.2	6503.3	6083.0	5515.2	4867.7	4410.1	4320.3	4681.3	4838.9	5567.7
22.5°	7438.9	7391.4	7181.2	6772.8	6118.6	5340.6	4662.6	4388.1	4730.4	4903.3	5701.6
25°	8005.0	8008.4	7799.9	7405.0	6728.7	5842.3	4988.1	4569.4	4855.9	5035.5	5884.7
27.5°	8705.0	8664.3	8469.4	8077.8	7332.1	6349.1	5381.3	4818.6	5042.3	5223.7	6125.3
30°	9542.2	9513.4	9288.0	8843.9	8001.6	6893.1	5830.4	5108.4	5283.0	5471.1	6440.6
32.5°	10527.0	10513.4	10279.5	9708.3	8774.4	7533.8	6357.5	5491.4	5642.3	5837.2	6893.1
35°	11682.9	11684.6	11408.3	10721.9	9620.2	8279.5	6955.8	5984.7	6079.6	6283.0	7432.1
37.5°	12394.7	12481.2	12377.8	11677.8	10577.8	9113.4	7732.1	6638.9	6577.9	6782.9	8010.0
40°	12547.3	12652.4	12979.5	12623.5	11649.0	10032.1	8420.2	7267.7	7191.4	7442.3	8754.1
42.5°	12333.7	12479.5	13171.0	13421.8	12786.2	11164.2	9345.6	8201.6	8105.0	8442.2	9679.5
45°	12206.6	12315.1	13115.1	13837.1	13772.7	12443.9	10523.6	9374.4	9338.8	9781.2	10747.3
47.5°	11986.3	12084.6	12854.0	13933.7	14352.3	13616.7	11938.8	10808.3	10877.8	11457.5	11952.4
50°	12104.9	12145.6	12562.5	13687.9	14520.1	14476.1	13520.1	12469.3	12706.6	13430.3	13316.8
52.5°	12088.0	12193.0	12528.6	13284.5	14542.2	15006.6	15077.7	14321.8	14821.8	15652.3	14830.3
55°	9772.7	9966.0	12130.3	13182.9	14620.1	15526.9	16464.2	16274.3	17206.5	18174.3	16538.7
57.5°	9332.1	9454.1	10654.1	13396.4	15033.7	16520.1	18006.5	18423.5	19982.8	21106.5	18620.1
60°	9245.6	9396.5	10638.8	13657.4	15872.6	18138.7	20292.9	21025.1	23360.7	24591.2	21033.6
62.5°	8976.1	9138.8	10538.8	13623.5	17064.2	20377.7	23220.0	23791.2	26564.0	27760.6	23052.2
65°	8121.9	8274.5	9723.6	13076.1	17867.5	22767.5	26684.3	26326.7	29092.8	29992.8	24059.0
66°	7537.2	7686.3	9081.2	12432.0	17681.1	23445.4	27911.4	27111.5	29658.9	30364.0	23862.4
67.5°	6467.7	6584.6	7833.8	10989.7	16689.6	23635.2	28943.6	27701.3	29718.2	29967.3	22738.6
70°	4086.4	4120.3	5091.4	7586.3	12633.7	20498.0	27372.5	26236.9	27267.4	26592.8	19062.4
72.5°	1772.9	1761.0	2444.0	3859.3	7152.4	13754.0	22142.0	21648.8	21389.5	19850.6	13343.9
75°	986.4	1000.0	1269.5	1791.5	2906.7	6755.8	14484.5	13860.8	11703.2	9986.3	6050.8
77.5°	791.5	810.2	1052.5	1271.2	1305.1	2355.9	6777.9	5515.2	3320.3	2664.4	1681.3
80°	625.4	659.3	918.6	989.8	879.6	971.2	2189.8	1750.8	1313.5	1205.1	871.2
82.5°	494.9	518.6	788.1	749.1	615.2	654.2	1049.1	1022.0	854.2	778.0	503.4
85°	355.9	400.0	647.4	564.4	403.4	440.7	696.6	667.8	489.8	400.0	222.0
87.5°	145.8	189.8	457.6	374.6	225.4	205.1	347.5	327.1	232.2	169.5	110.2
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°	5111.8	5111.8	5111.8	5111.8	5111.8	5111.8	5111.8	5111.8	5111.8	5111.8	5111.8
2.5°	5106.7	5147.4	5199.9	5232.1	5249.1	5260.9	5279.6	5277.9	5283.0	5284.7	5291.4
5°	5140.6	5208.4	5284.7	5305.0	5305.0	5286.4	5267.7	5237.2	5225.3	5222.0	5225.3
7.5°	5228.7	5303.3	5369.4	5345.7	5294.8	5220.3	5123.7	5038.9	4993.1	4977.9	4974.5
10°	5340.6	5430.4	5457.5	5367.7	5218.6	5038.9	4847.4	4708.4	4628.7	4606.7	4599.9
12.5°	5476.2	5560.9	5523.6	5333.8	5057.6	4767.7	4503.3	4281.3	4115.2	4062.7	4059.3
15°	5625.3	5691.4	5560.9	5228.7	4816.9	4389.8	3918.6	3535.5	3328.8	3262.7	3257.6
17.5°	5764.3	5798.2	5538.9	5045.7	4462.6	3771.1	3145.7	2850.8	2779.6	2796.6	2800.0
20°	5883.0	5883.0	5464.3	4783.0	3905.0	2955.9	2561.0	2555.9	2606.7	2657.6	2667.8
22.5°	6013.5	5935.5	5333.8	4411.8	3115.2	2418.6	2361.0	2408.4	2466.1	2522.0	2530.5
25°	6174.5	5977.9	5152.5	3849.1	2449.1	2196.6	2218.6	2257.6	2286.4	2322.0	2327.1
27.5°	6354.1	6032.1	4913.5	3074.5	2125.4	2057.6	2074.5	2088.1	2084.7	2098.3	2101.7
30°	6569.4	6094.8	4586.4	2403.4	1991.5	1939.0	1908.4	1896.6	1896.6	1918.6	1927.1
32.5°	6857.5	6188.0	4116.9	2059.3	1927.1	1854.2	1755.9	1711.8	1728.8	1803.4	1820.3
35°	7174.5	6288.0	3481.3	1942.3	1913.5	1815.2	1662.7	1581.3	1583.0	1652.5	1674.6
37.5°	7520.2	6415.2	2784.7	1920.3	1944.0	1816.9	1613.5	1501.7	1455.9	1455.9	1464.4
40°	7962.6	6545.7	2254.2	1935.6	2008.4	1837.3	1588.1	1439.0	1310.1	1313.5	1320.3
42.5°	8538.9	6657.5	1969.5	1967.8	2086.4	1864.4	1586.4	1355.9	1244.0	1320.3	1389.8
45°	9179.5	6713.5	1844.0	1996.6	2149.1	1881.3	1559.3	1342.4	1252.5	1479.6	1611.8
47.5°	9916.8	6681.3	1774.5	2006.7	2164.4	1881.3	1528.8	1374.6	1311.8	1713.5	1867.8
50°	10725.3	6588.0	1706.8	1986.4	2159.3	1877.9	1557.6	1406.8	1333.9	1754.2	1861.0
52.5°	11676.1	6510.1	1635.6	1942.3	2123.7	1859.3	1591.5	1393.2	1264.4	1594.9	1669.5
55°	12760.8	6532.1	1555.9	1879.6	2067.8	1823.7	1579.6	1339.0	1191.5	1405.1	1450.8
57.5°	14147.2	6794.8	1461.0	1800.0	1991.5	1764.4	1537.3	1313.5	1169.5	1274.6	1301.7
60°	15694.7	7252.4	1342.4	1720.3	1896.6	1669.5	1505.1	1325.4	1179.6	1264.4	1277.9
62.5°	16830.3	7518.5	1240.7	1603.4	1767.8	1564.4	1464.4	1340.7	1206.8	1300.0	1296.6
65°	17138.7	7081.3	1113.5	1432.2	1593.2	1454.2	1413.5	1357.6	1218.6	1328.8	1313.5
66°	16706.5	6610.1	1057.6	1352.5	1505.1	1400.0	1388.1	1355.9	1213.5	1332.2	1306.8
67.5°	15657.4	5644.0	961.0	1235.6	1364.4	1318.6	1347.4	1340.7	1200.0	1328.8	1293.2
70°	12769.3	3850.8	822.0	1028.8	1135.6	1161.0	1269.5	1286.4	1155.9	1269.5	1191.5
72.5°	8921.9	2345.7	727.1	798.3	918.6	989.8	1162.7	1211.8	1096.6	1108.5	1033.9
75°	4311.8	1245.7	659.3	618.6	713.5	827.1	1033.9	1110.2	1003.4	927.1	900.0
77.5°	1344.0	761.0	559.3	498.3	559.3	667.8	864.4	972.9	893.2	776.3	766.1
80°	722.0	559.3	430.5	400.0	442.4	523.7	679.7	811.9	767.8	696.6	622.0
82.5°	476.3	362.7	318.6	310.2	337.3	400.0	505.1	672.9	672.9	596.6	433.9
85°	245.8	222.0	218.6	218.6	235.6	266.1	344.1	518.6	552.5	315.2	261.0
87.5°	122.0	127.1	118.6	123.7	132.2	130.5	164.4	261.0	311.9	191.5	159.3
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)