

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: P192288

Luminaire Tested: **GLEON-AF-10-LED-E1-T3R-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192288
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-10-LED-E1-T3R-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 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: 48669 lumens
Efficiency: N/A
Efficacy: 116.2 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): 419
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

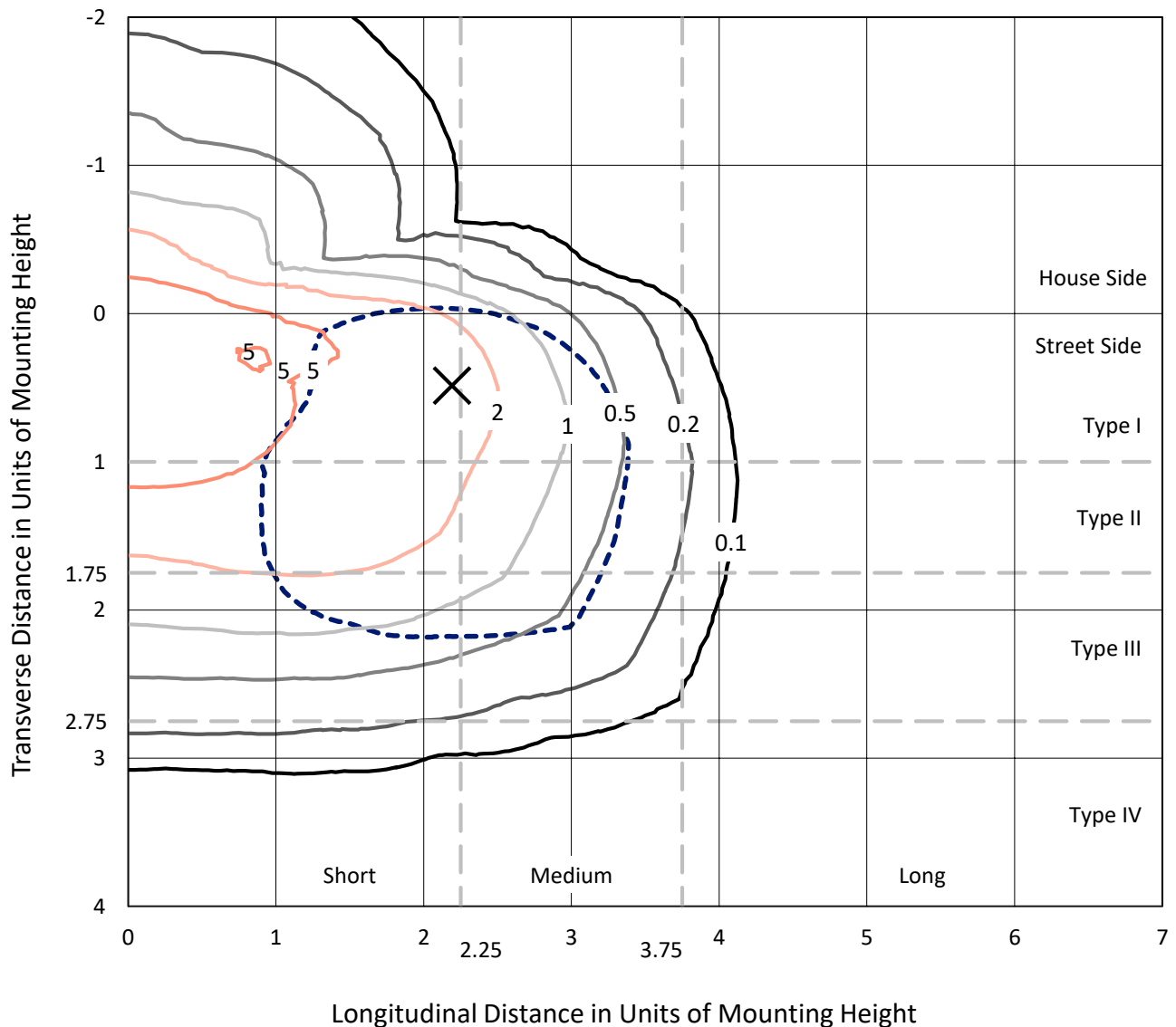


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

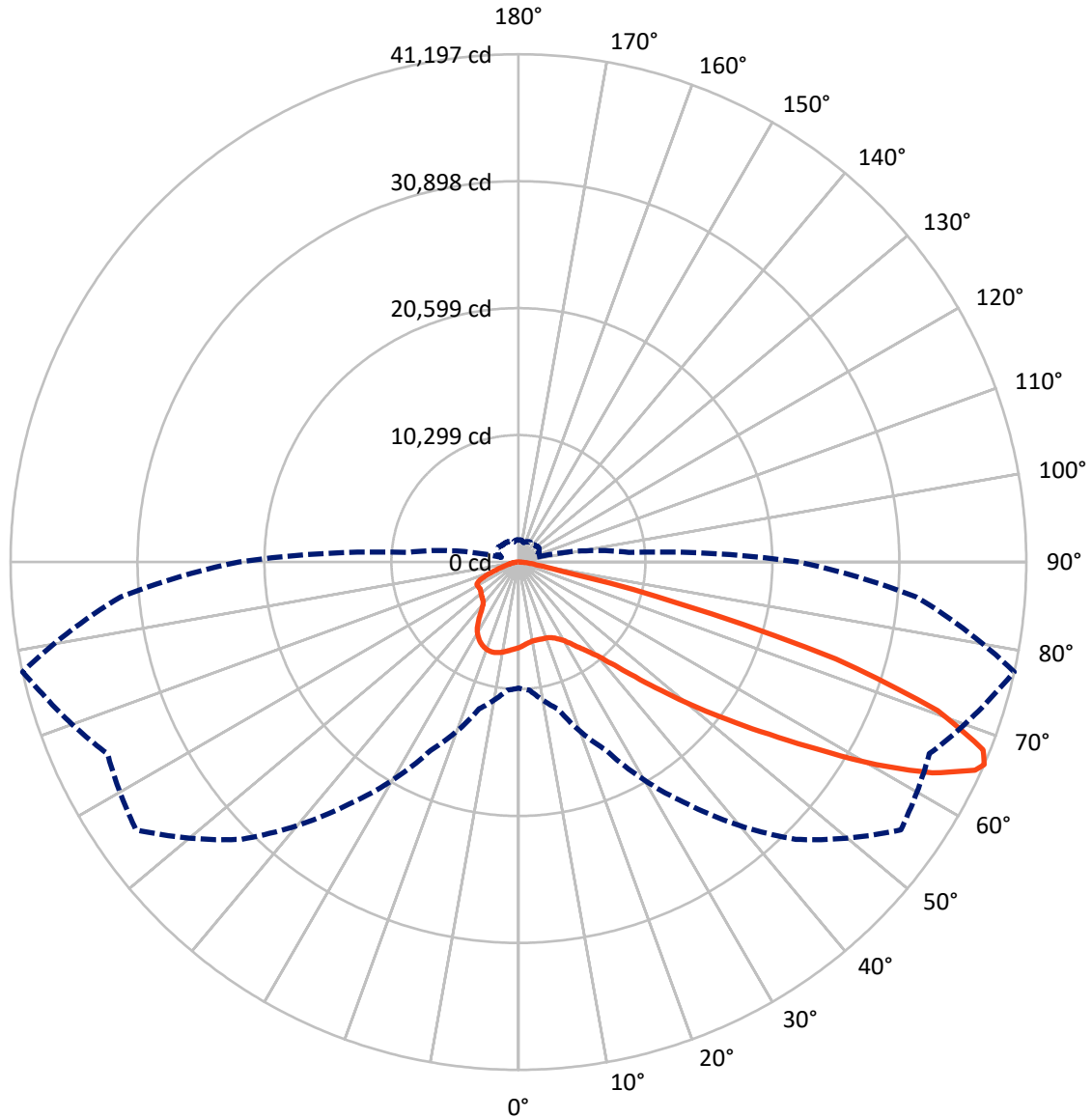


Based on 30 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Short - Full Cutoff

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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	8314.8	0.0	8314.8
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	40354.2	0.0	40354.2
	% Fixture	82.9	0.0	82.9
Total	Lumens	48669.0	0.0	48669.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.6	1.3
10°-20°	1748.1	3.6
20°-30°	2983.4	6.1
30°-40°	4775.9	9.8
40°-50°	7378.3	15.2
50°-60°	10464.9	21.5
60°-70°	13999.3	28.8
70°-80°	6079.6	12.5
80°-90°	619.9	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°	48669.0	100.0
0°-180°	48669.0	100.0



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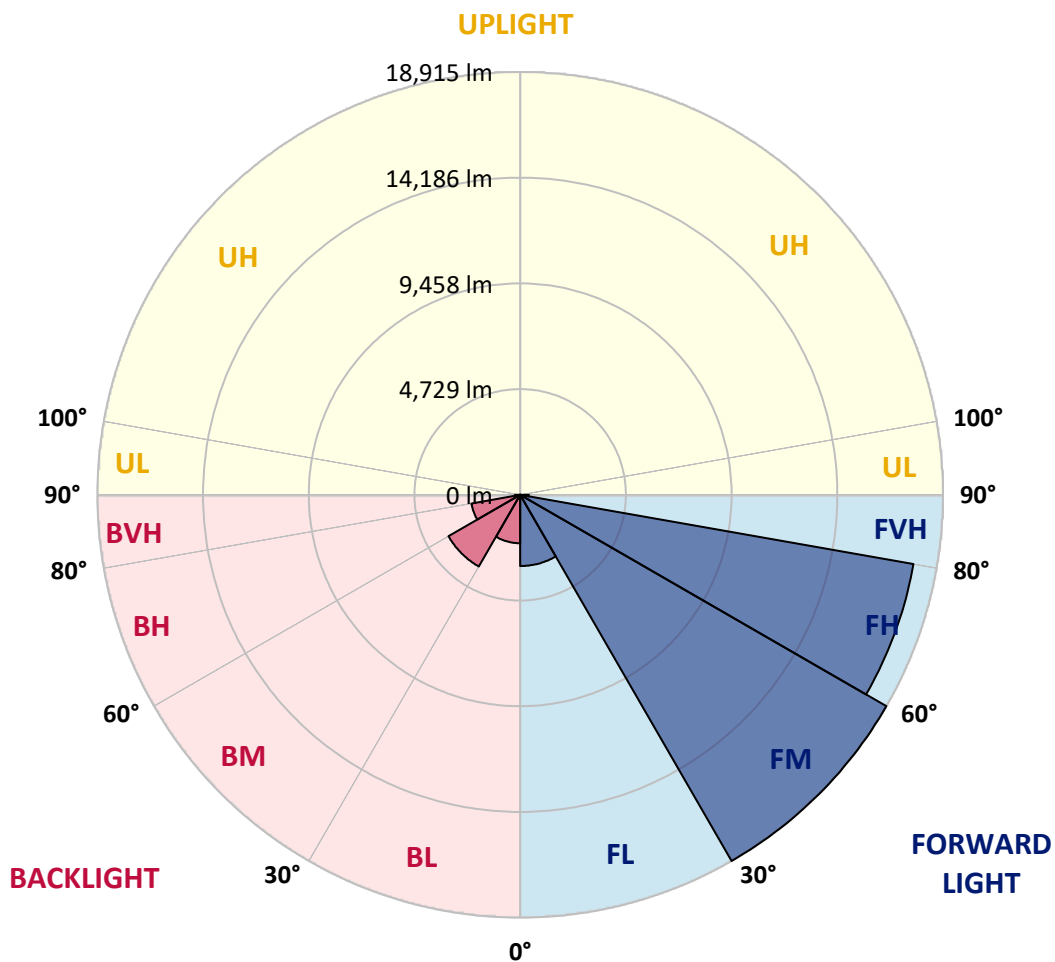
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3185.6	6.5			
FM	(30°-60°)	18915.3	38.9			
FH	(60°-80°)	17864.5	36.7			G5
FVH	(80°-90°)	388.8	0.8			G3/500
BL	(0°-30°)	2165.5	4.4	B3/2500		
BM	(30°-60°)	3703.8	7.6	B3/5000		
BH	(60°-80°)	2214.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	231.1	0.5			G3/500
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°	6935.6	6935.6	6935.6	6935.6	6935.6	6935.6	6935.6	6935.6	6935.6	6935.6	6935.6
2.5°	6135.3	6176.7	6211.2	6243.4	6307.8	6413.6	6535.4	6634.3	6776.9	6804.5	6880.4
5°	5571.9	5571.9	5599.5	5647.8	5735.2	5893.8	6059.4	6280.2	6590.6	6664.2	6866.6
7.5°	5298.3	5300.6	5316.7	5358.0	5433.9	5578.8	5760.5	6020.3	6441.2	6563.0	6908.0
10°	5399.4	5376.4	5341.9	5321.3	5332.7	5417.8	5590.3	5880.1	6349.2	6505.5	7000.0
12.5°	5965.1	5921.4	5801.9	5643.2	5491.4	5429.3	5530.5	5813.4	6310.1	6491.7	7121.8
15°	6889.6	6871.2	6648.1	6319.3	5951.3	5643.2	5574.2	5788.1	6314.7	6507.8	7266.7
17.5°	8048.6	8023.3	7728.9	7250.6	6650.4	6050.2	5728.3	5808.8	6330.8	6535.4	7407.0
20°	9219.1	9140.9	8823.5	8253.2	7482.9	6604.4	5983.5	5861.7	6351.5	6565.3	7554.2
22.5°	10092.9	10028.5	9743.4	9189.2	8301.5	7246.0	6326.2	5953.6	6418.2	6652.7	7735.8
25°	10861.0	10865.6	10582.7	10046.9	9129.4	7926.7	6767.7	6199.7	6588.3	6832.1	7984.2
27.5°	11810.7	11755.5	11491.1	10959.8	9948.0	8614.3	7301.2	6537.7	6841.3	7087.3	8310.7
30°	12946.7	12907.6	12601.8	11999.3	10856.4	9352.4	7910.6	6931.0	7167.8	7423.1	8738.4
32.5°	14282.8	14264.4	13947.0	13172.1	11905.0	10221.7	8625.8	7450.7	7655.3	7919.8	9352.4
35°	15851.1	15853.4	15478.5	14547.2	13052.5	11233.5	9437.5	8119.9	8248.6	8524.6	10083.7
37.5°	16816.9	16934.2	16793.9	15844.2	14351.7	12364.9	10490.7	9007.5	8924.7	9203.0	10867.9
40°	17023.9	17166.4	17610.3	17127.3	15805.1	13611.3	11424.4	9860.6	9757.2	10097.5	11877.4
42.5°	16734.1	16931.9	17870.1	18210.5	17348.1	15147.4	12679.9	11127.7	10996.6	11454.3	13133.0
45°	16561.6	16708.8	17794.2	18773.9	18686.5	16883.6	14278.2	12719.0	12670.7	13270.9	14581.7
47.5°	16262.7	16396.1	17440.1	18904.9	19472.9	18474.9	16198.3	14664.5	14758.8	15545.2	16216.7
50°	16423.7	16478.9	17044.6	18571.5	19700.6	19640.8	18343.8	16918.1	17240.0	18222.0	18067.9
52.5°	16400.7	16543.3	16998.6	18024.2	19730.5	20360.6	20457.2	19431.5	20109.9	21236.7	20121.4
55°	13259.4	13521.6	16458.2	17886.2	19836.3	21066.5	22338.2	22080.7	23345.4	24658.5	22439.4
57.5°	12661.5	12827.1	14455.2	18176.0	20397.4	22414.1	24430.8	24996.5	27112.2	28636.8	25263.3
60°	12544.3	12748.9	14434.5	18530.1	21535.7	24610.2	27533.0	28526.4	31695.3	33364.8	28537.9
62.5°	12178.6	12399.4	14298.9	18484.1	23152.3	27648.0	31504.4	32279.3	36041.5	37665.0	31276.7
65°	11019.6	11226.6	13192.7	17741.3	24242.3	30890.4	36204.7	35719.5	39472.5	40693.5	32642.7
66°	10226.3	10428.6	12321.2	16867.5	23989.3	31810.2	37869.7	36784.2	40240.5	41197.2	32375.9
67.5°	8775.2	8933.9	10628.7	14910.5	22644.1	32067.8	39270.1	37584.5	40321.0	40659.1	30851.3
70°	5544.3	5590.3	6908.0	10293.0	17141.1	27811.2	37138.4	35597.7	36995.8	36080.6	25863.5
72.5°	2405.4	2389.3	3316.0	5236.2	9704.3	18661.2	30041.8	29372.7	29020.8	26932.8	18104.7
75°	1338.4	1356.8	1722.4	2430.7	3943.8	9166.2	19652.3	18806.0	15878.7	13549.2	8209.5
77.5°	1073.9	1099.2	1428.0	1724.7	1770.7	3196.4	9196.1	7482.9	4504.9	3615.0	2281.2
80°	848.5	894.5	1246.4	1343.0	1193.5	1317.7	2971.1	2375.5	1782.2	1635.0	1182.0
82.5°	671.5	703.7	1069.3	1016.4	834.8	887.6	1423.4	1386.7	1159.0	1055.5	683.0
85°	482.9	542.7	878.4	765.8	547.3	597.9	945.1	906.0	664.6	542.7	301.2
87.5°	197.8	257.6	620.9	508.2	305.8	278.3	471.4	443.8	315.0	230.0	149.5
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°	6935.6	6935.6	6935.6	6935.6	6935.6	6935.6	6935.6	6935.6	6935.6	6935.6	6935.6
2.5°	6928.7	6983.9	7055.1	7098.8	7121.8	7137.9	7163.2	7160.9	7167.8	7170.1	7179.3
5°	6974.7	7066.6	7170.1	7197.7	7197.7	7172.4	7147.1	7105.7	7089.6	7085.0	7089.6
7.5°	7094.2	7195.4	7285.1	7252.9	7183.9	7082.7	6951.7	6836.7	6774.6	6753.9	6749.3
10°	7246.0	7367.9	7404.7	7282.8	7080.4	6836.7	6576.8	6388.3	6280.2	6250.3	6241.1
12.5°	7430.0	7545.0	7494.4	7236.8	6862.0	6468.7	6110.0	5808.8	5583.4	5512.1	5507.5
15°	7632.3	7722.0	7545.0	7094.2	6535.4	5955.9	5316.7	4796.9	4516.4	4426.7	4419.8
17.5°	7820.9	7866.9	7515.1	6845.9	6054.8	5116.6	4268.0	3867.9	3771.3	3794.3	3798.9
20°	7981.9	7981.9	7413.9	6489.4	5298.3	4010.5	3474.7	3467.8	3536.8	3605.8	3619.6
22.5°	8158.9	8053.2	7236.8	5985.8	4226.6	3281.5	3203.3	3267.7	3345.9	3421.8	3433.3
25°	8377.4	8110.7	6990.8	5222.4	3322.9	2980.3	3010.2	3063.1	3102.1	3150.4	3157.3
27.5°	8621.2	8184.2	6666.5	4171.5	2883.7	2791.7	2814.7	2833.1	2828.5	2846.9	2851.5
30°	8913.2	8269.3	6222.7	3260.8	2702.0	2630.7	2589.3	2573.2	2573.2	2603.1	2614.6
32.5°	9304.1	8395.8	5585.7	2794.0	2614.6	2515.8	2382.4	2322.6	2345.6	2446.8	2469.8
35°	9734.2	8531.5	4723.4	2635.3	2596.2	2462.9	2255.9	2145.5	2147.8	2242.1	2272.0
37.5°	10203.3	8703.9	3778.2	2605.4	2637.6	2465.2	2189.2	2037.4	1975.3	1975.3	1986.8
40°	10803.5	8881.0	3058.5	2626.1	2725.0	2492.8	2154.7	1952.4	1777.6	1782.2	1791.4
42.5°	11585.3	9032.8	2672.1	2669.8	2830.8	2529.5	2152.4	1839.7	1687.9	1791.4	1885.7
45°	12454.6	9108.7	2502.0	2708.9	2915.9	2552.5	2115.6	1821.3	1699.4	2007.5	2186.9
47.5°	13454.9	9065.0	2407.7	2722.7	2936.6	2552.5	2074.2	1865.0	1779.9	2324.9	2534.1
50°	14551.8	8938.5	2315.7	2695.1	2929.7	2547.9	2113.3	1908.7	1809.8	2380.1	2524.9
52.5°	15841.9	8832.7	2219.1	2635.3	2881.4	2522.7	2159.3	1890.3	1715.5	2163.9	2265.1
55°	17313.6	8862.6	2111.0	2550.2	2805.5	2474.4	2143.2	1816.7	1616.6	1906.4	1968.4
57.5°	19194.7	9219.1	1982.2	2442.2	2702.0	2393.9	2085.7	1782.2	1586.7	1729.3	1766.1
60°	21294.2	9839.9	1821.3	2334.1	2573.2	2265.1	2042.0	1798.3	1600.5	1715.5	1733.9
62.5°	22834.9	10201.0	1683.3	2175.4	2398.5	2122.5	1986.8	1819.0	1637.3	1763.8	1759.2
65°	23253.5	9607.7	1510.8	1943.2	2161.6	1973.0	1917.9	1842.0	1653.4	1802.9	1782.2
66°	22667.1	8968.4	1434.9	1835.1	2042.0	1899.5	1883.4	1839.7	1646.5	1807.5	1773.0
67.5°	21243.6	7657.6	1303.9	1676.4	1851.2	1789.1	1828.2	1819.0	1628.1	1802.9	1754.6
70°	17325.1	5224.7	1115.3	1395.9	1540.7	1575.2	1722.4	1745.4	1568.3	1722.4	1616.6
72.5°	12105.0	3182.6	986.5	1083.1	1246.4	1343.0	1577.5	1644.2	1487.8	1503.9	1402.7
75°	5850.2	1690.2	894.5	839.4	968.1	1122.2	1402.7	1506.2	1361.4	1257.9	1221.1
77.5°	1823.6	1032.5	758.9	676.1	758.9	906.0	1172.8	1320.0	1211.9	1053.2	1039.4
80°	979.6	758.9	584.1	542.7	600.2	710.6	922.1	1101.5	1041.7	945.1	843.9
82.5°	646.2	492.1	432.3	420.8	457.6	542.7	685.3	912.9	912.9	809.5	588.7
85°	333.4	301.2	296.6	296.6	319.6	361.0	466.8	703.7	749.7	427.7	354.1
87.5°	165.6	172.5	161.0	167.9	179.4	177.1	223.1	354.1	423.1	259.9	216.2
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)