

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: P191456

Luminaire Tested: **GLEON-AF-08-LED-E1-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48810.1 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 445
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

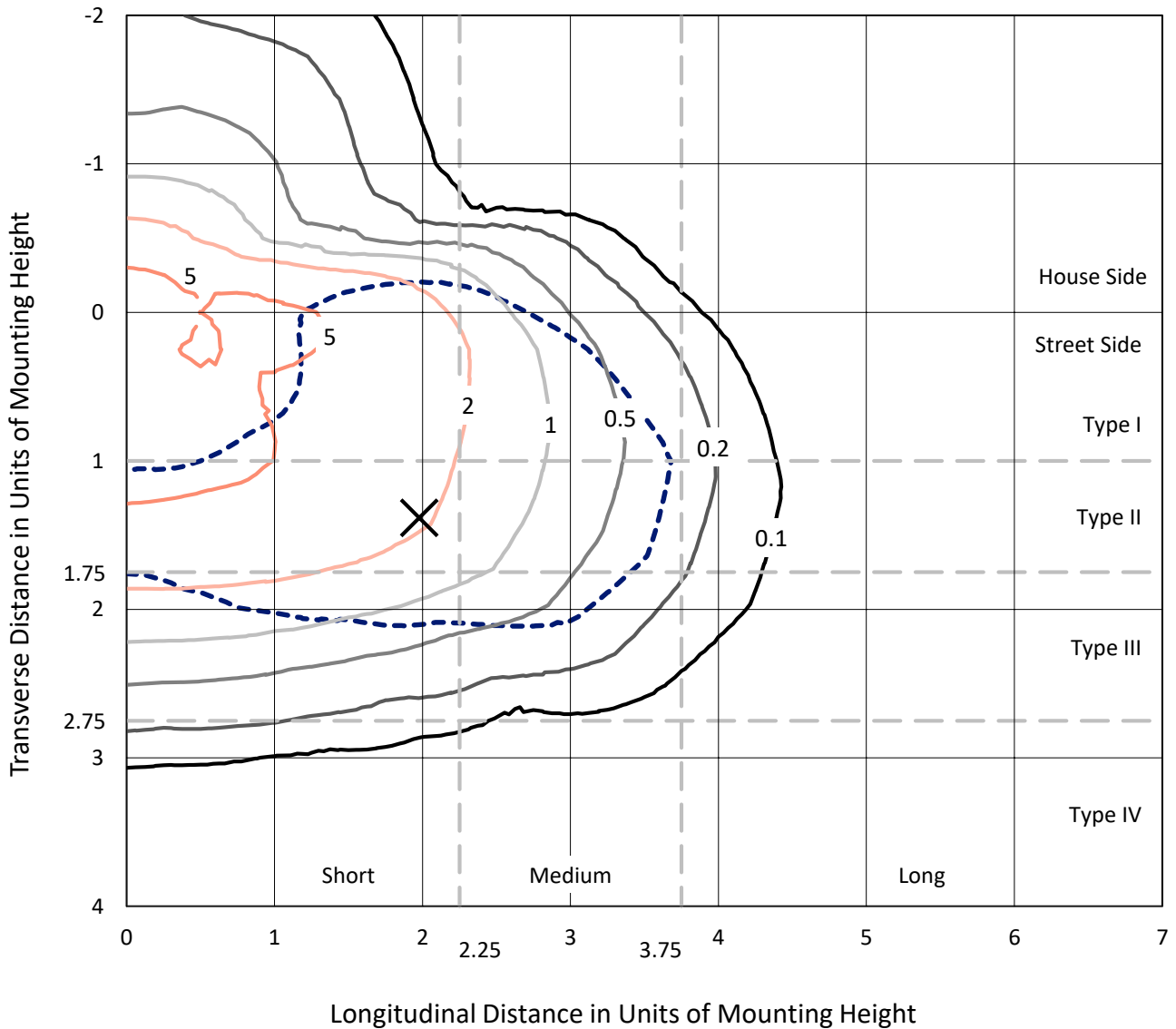


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

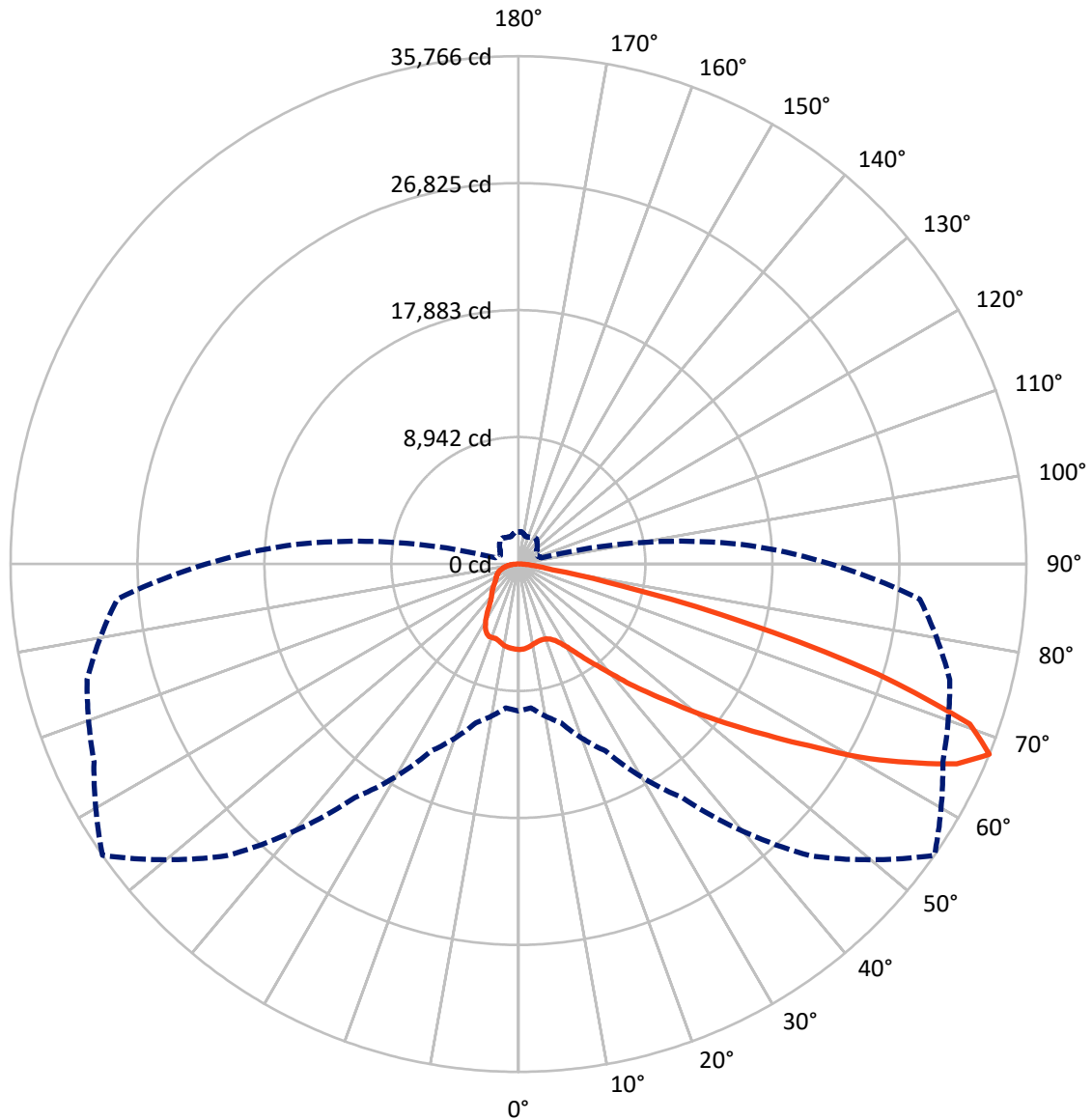


Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10544.0	0.0	10544.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	38266.1	0.0	38266.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	48810.1	0.0	48810.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.8	1.2
10°-20°	1591.1	3.3
20°-30°	2665.3	5.5
30°-40°	4382.8	9.0
40°-50°	7377.7	15.1
50°-60°	11611.9	23.8
60°-70°	13857.5	28.4
70°-80°	5950.7	12.2
80°-90°	811.3	1.7
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°	48810.1	100.0
0°-180°	48810.1	100.0



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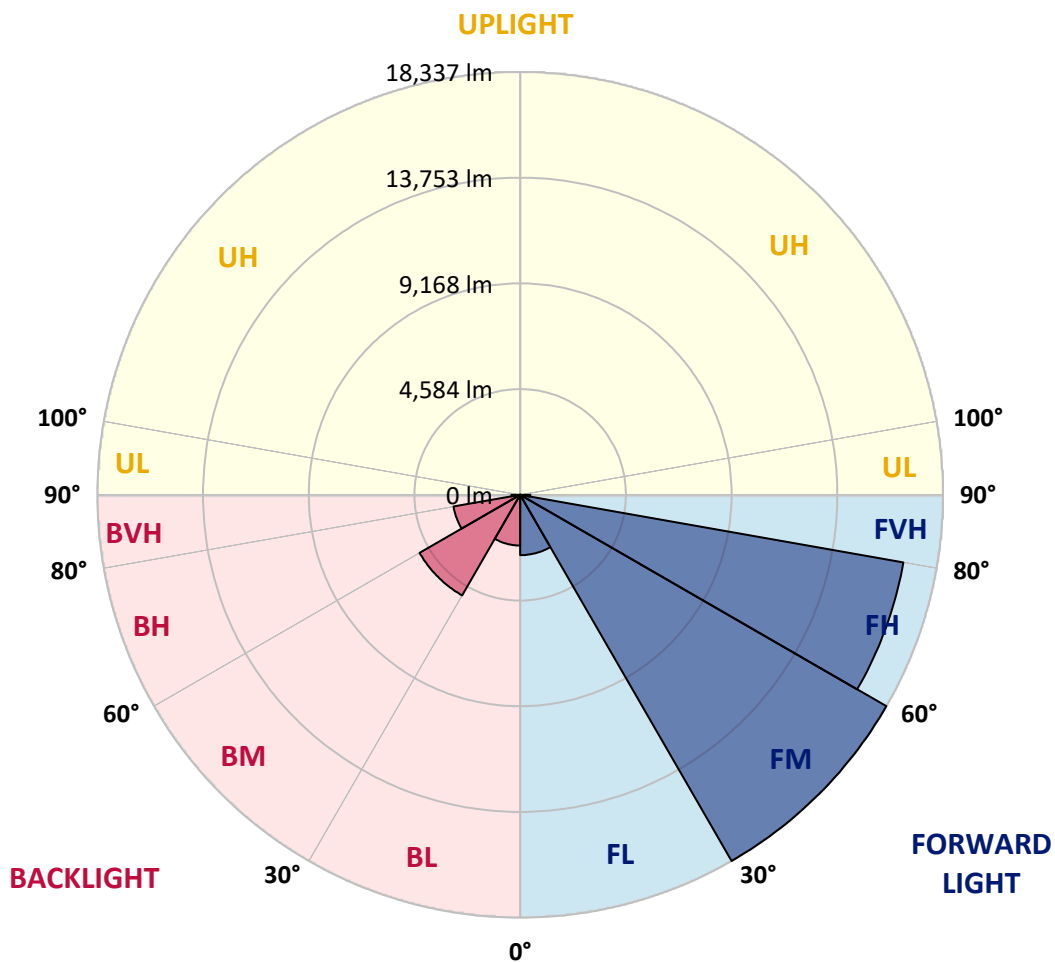
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2616.3	5.4			
FM	(30°-60°)	18336.7	37.6			
FH	(60°-80°)	16873.9	34.6			G5
FVH	(80°-90°)	439.2	0.9			G3/500
BL	(0°-30°)	2201.8	4.5	B3/2500		
BM	(30°-60°)	5035.7	10.3	B4/8500		
BH	(60°-80°)	2934.4	6.0	B4/5000		G4/5000
BVH	(80°-90°)	372.1	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6018.8	6018.8	6018.8	6018.8	6018.8	6018.8	6018.8	6018.8	6018.8	6018.8	6018.8
2.5°	5967.0	5969.3	5974.0	5992.9	6009.4	6004.7	6007.1	5997.6	5995.2	5981.1	5995.2
5°	5891.5	5898.5	5900.9	5931.6	5950.4	5955.2	5948.0	5936.3	5922.2	5908.1	5915.1
7.5°	5719.4	5738.2	5740.6	5783.0	5813.7	5853.8	5856.2	5858.5	5851.5	5842.0	5856.2
10°	5611.0	5615.7	5613.3	5643.9	5667.6	5712.4	5738.2	5783.0	5802.0	5806.7	5816.1
12.5°	5603.9	5599.2	5592.1	5592.1	5585.0	5603.9	5651.1	5714.7	5759.5	5773.6	5785.4
15°	5679.3	5677.0	5653.4	5618.0	5573.2	5559.1	5599.2	5669.9	5728.8	5759.5	5771.3
17.5°	5849.0	5834.9	5797.2	5717.1	5620.4	5582.7	5587.4	5646.3	5714.7	5754.8	5766.6
20°	6160.3	6160.3	6080.1	5929.2	5757.2	5667.6	5625.1	5660.5	5726.5	5780.7	5797.2
22.5°	6697.8	6702.5	6568.2	6320.6	6030.6	5839.6	5733.5	5726.5	5804.3	5865.6	5884.4
25°	7459.3	7440.4	7251.8	6898.2	6457.3	6141.4	5957.6	5915.1	5981.1	6049.4	6073.1
27.5°	8345.7	8277.3	8053.4	7626.7	7056.1	6594.0	6311.2	6242.8	6306.4	6384.2	6407.8
30°	9222.7	9152.0	8885.6	8418.8	7784.7	7199.9	6794.4	6683.7	6773.3	6884.0	6898.2
32.5°	10099.7	10099.7	9802.6	9258.1	8567.3	7923.7	7438.1	7306.0	7454.5	7589.0	7619.6
35°	11148.8	11153.5	10865.9	10210.6	9467.9	8786.5	8251.4	8154.8	8378.7	8473.0	8546.1
37.5°	12438.5	12464.3	12094.2	11302.1	10488.7	9772.0	9135.5	9003.5	9227.4	9484.4	9720.2
40°	13831.7	13864.8	13456.9	12480.8	11667.5	10917.9	10229.4	9991.3	10363.8	10854.1	11158.2
42.5°	15161.4	15331.2	14937.4	13933.1	13058.5	12282.8	11585.0	11238.4	11705.2	12445.5	12709.6
45°	17082.8	17205.4	16519.3	15609.3	14786.5	13919.0	12994.9	12629.4	13282.4	14216.0	14270.3
47.5°	18362.9	18271.0	17922.1	17356.3	16835.2	16024.2	14633.3	14232.5	15100.1	16198.7	15894.6
50°	19044.3	19072.5	19025.5	19058.4	19077.3	18568.1	16641.9	16092.7	17127.6	18454.9	17754.6
52.5°	19680.8	19492.2	19647.8	20421.1	21354.7	21166.1	18827.4	18254.5	19301.2	20958.6	19720.9
55°	19666.6	19379.1	19886.0	21250.9	23276.0	23493.0	21281.6	20621.5	21599.8	23643.9	21804.9
57.5°	18971.1	18985.4	19765.7	21552.7	24615.2	25680.8	24129.5	23139.4	24037.5	26364.4	23707.5
60°	18014.1	18143.7	19268.2	21503.1	25687.8	27474.8	27623.4	25852.8	26425.8	28837.5	25282.3
62.5°	16469.8	16606.6	18157.8	20989.2	25525.2	29202.9	30782.5	28931.8	28922.4	30336.9	25744.4
65°	14034.5	13994.4	15623.4	19067.8	24160.2	30480.8	33920.4	31593.5	30803.7	30360.5	24815.6
67.5°	10349.6	10170.5	11568.4	14522.5	20081.5	29049.7	35766.4	32979.7	31445.0	28363.7	21977.1
70°	5370.5	5191.3	6323.0	8480.1	13207.0	22672.6	33722.4	32263.1	30028.1	23775.8	17217.2
72.5°	2296.2	2265.6	2725.3	3720.2	6388.9	13077.3	26442.3	27925.1	25765.7	17714.6	11837.3
75°	1544.1	1534.7	1706.9	2027.5	2873.9	5306.9	16547.7	19822.2	18850.9	10983.8	6657.7
77.5°	1211.8	1200.0	1301.4	1457.0	1862.5	2093.5	7343.8	10642.0	9849.8	4781.1	2914.0
80°	947.8	938.4	1002.0	1086.8	1339.0	1320.2	2416.5	4234.2	3277.0	1831.8	1416.9
82.5°	747.4	747.4	799.2	801.6	950.1	900.6	1261.3	1864.8	1636.1	1068.0	867.6
85°	683.6	683.6	738.0	598.8	620.0	568.1	782.7	1105.7	1037.3	438.5	377.2
87.5°	344.2	334.8	620.0	530.4	337.2	301.8	382.0	535.2	575.2	242.8	188.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6018.8	6018.8	6018.8	6018.8	6018.8	6018.8	6018.8	6018.8	6018.8	6018.8
2.5°	5990.5	5988.1	5992.9	5995.2	6014.1	6040.0	6051.8	6068.3	6077.8	6073.1
5°	5919.8	5924.5	5943.3	5957.6	5990.5	6033.0	6056.6	6075.4	6091.9	6084.8
7.5°	5860.9	5872.7	5900.9	5912.8	5931.6	5943.3	5941.0	5948.0	5962.3	5945.7
10°	5827.9	5842.0	5863.2	5846.7	5802.0	5738.2	5679.3	5648.7	5658.1	5646.3
12.5°	5794.8	5813.7	5797.2	5719.4	5594.4	5512.0	5467.2	5471.9	5493.0	5497.8
15°	5776.0	5783.0	5712.4	5566.2	5438.8	5427.1	5450.7	5445.9	5448.3	5448.3
17.5°	5776.0	5757.2	5625.1	5478.9	5424.7	5403.5	5330.4	5238.4	5198.4	5184.2
20°	5806.7	5757.2	5596.8	5500.2	5382.3	5200.8	5007.4	4837.6	4762.2	4741.1
22.5°	5898.5	5813.7	5677.0	5509.6	5174.8	4870.7	4564.2	4361.5	4224.7	4201.2
25°	6084.8	5990.5	5834.9	5384.6	4844.8	4411.0	4062.0	3835.8	3699.0	3680.2
27.5°	6410.2	6348.8	5919.8	5108.8	4406.3	3941.8	3618.8	3444.4	3343.0	3335.9
30°	6900.5	6869.9	5877.4	4701.0	3866.3	3486.8	3331.2	3229.9	3154.4	3152.0
32.5°	7683.3	7435.7	5738.2	4203.5	3373.7	3163.8	3100.2	3038.9	2980.0	2980.0
35°	8690.0	7893.1	5474.2	3670.7	3074.3	2984.7	2904.5	2807.8	2730.1	2725.3
37.5°	9873.4	8175.9	5000.4	3241.6	2932.8	2864.5	2746.5	2602.7	2466.0	2442.4
40°	11068.6	8260.8	4333.2	2977.6	2843.2	2744.2	2600.3	2430.6	2298.6	2291.5
42.5°	12164.9	8098.2	3626.0	2796.0	2753.6	2621.6	2470.7	2319.8	2216.1	2213.8
45°	13084.4	7676.2	3031.8	2624.0	2659.3	2510.8	2376.4	2253.8	2173.7	2157.2
47.5°	13949.6	7079.7	2614.6	2442.4	2565.0	2449.5	2336.3	2220.8	2143.0	2131.2
50°	14953.9	6436.1	2322.2	2265.6	2482.5	2428.3	2369.4	2249.1	2119.5	2105.3
52.5°	16170.4	5879.7	2093.5	2110.0	2418.9	2456.5	2454.2	2329.3	2103.0	2084.1
55°	17528.4	5262.1	1921.4	1982.7	2392.9	2508.5	2475.4	2404.7	2117.1	2088.8
57.5°	18865.1	4540.7	1801.2	1886.0	2355.1	2503.7	2374.1	2272.7	2150.0	2110.0
60°	19867.0	3571.7	1709.2	1801.2	2272.7	2425.9	2263.3	2128.9	2143.0	2112.4
62.5°	19933.0	2760.6	1598.5	1728.1	2147.7	2348.1	2190.1	2065.2	2173.7	2145.3
65°	18761.3	2086.4	1492.3	1640.8	2013.4	2298.6	2119.5	2029.8	2237.3	2206.7
67.5°	15795.6	1678.6	1402.8	1551.3	1879.0	2194.8	2055.8	1996.8	2293.9	2239.6
70°	11403.4	1431.0	1315.5	1442.8	1758.8	2077.0	1999.2	1937.9	2140.6	2055.8
72.5°	7020.8	1240.0	1216.5	1299.0	1666.8	1954.4	1914.4	1827.1	1928.5	1860.1
75°	3505.7	1075.0	1105.7	1157.6	1537.1	1815.3	1772.9	1685.6	1699.8	1685.6
77.5°	1678.6	919.4	976.0	1016.1	1369.7	1657.4	1612.6	1523.0	1506.5	1508.9
80°	1063.3	768.5	822.8	851.1	1223.6	1473.5	1428.7	1339.0	1527.7	1416.9
82.5°	664.8	624.7	638.9	690.8	1065.6	1282.5	1223.6	1143.5	1376.8	1089.1
85°	367.8	436.2	455.0	499.8	820.4	1072.7	1013.7	912.4	818.1	803.9
87.5°	219.2	259.3	266.4	299.4	551.7	775.6	686.1	650.7	539.9	537.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)