

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: P191448

Luminaire Tested: **GLEON-AF-10-LED-E1-T3-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191448
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-10-LED-E1-T3-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48704.7 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: B4 - U0 - G5

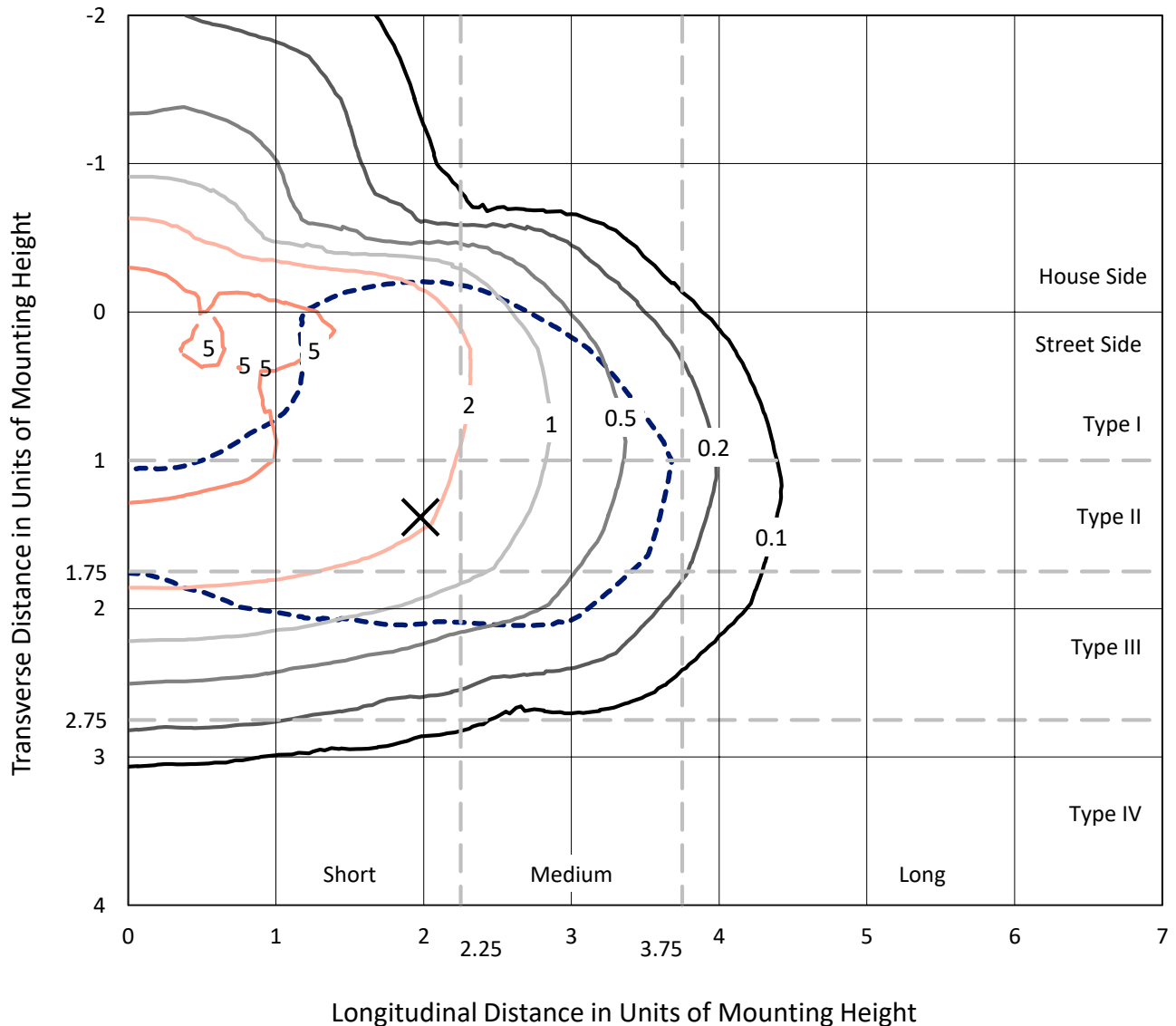
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191448
 CATALOG NUMBER: GLEON-AF-10-LED-E1-T3-800

Iso-Footcandle Lines of Horizontal Illumination

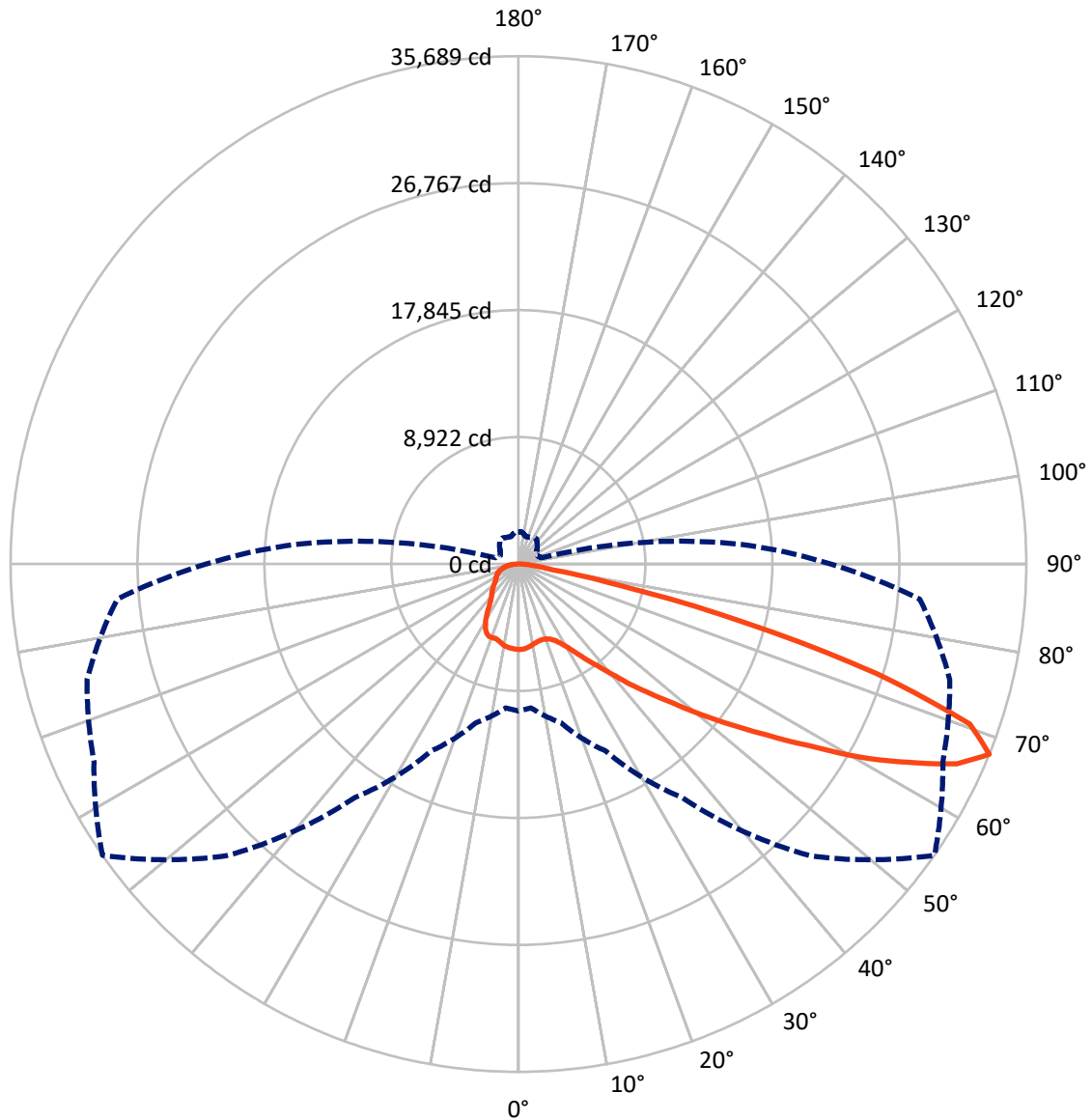
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P191448
CATALOG NUMBER: GLEON-AF-10-LED-E1-T3-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191448

CATALOG NUMBER: GLEON-AF-10-LED-E1-T3-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10521.3	0.0	10521.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	38183.5	0.0	38183.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	48704.7	0.0	48704.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.6	1.2
10°-20°	1587.6	3.3
20°-30°	2659.5	5.5
30°-40°	4373.4	9.0
40°-50°	7361.7	15.1
50°-60°	11586.8	23.8
60°-70°	13827.6	28.4
70°-80°	5937.8	12.2
80°-90°	809.6	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°	48704.7	100.0
0°-180°	48704.7	100.0



REPORT NUMBER: P191448

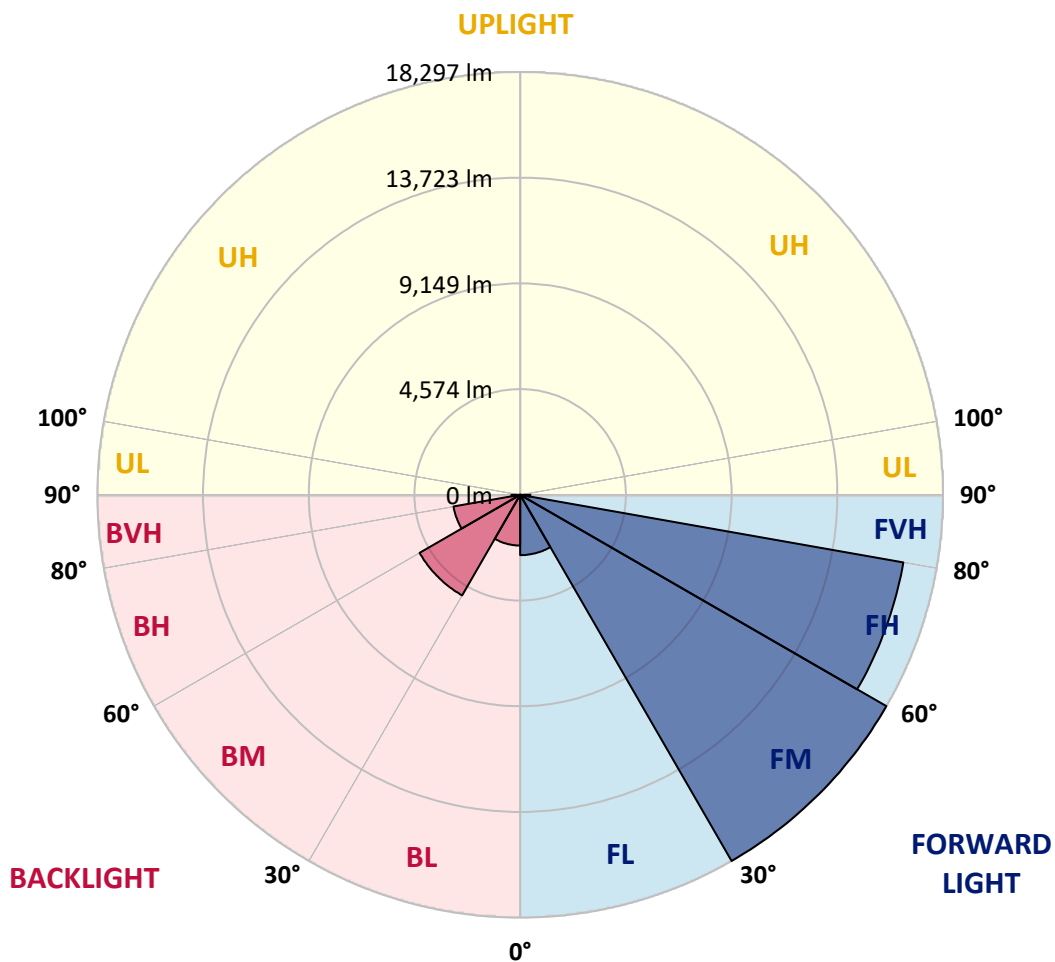
CATALOG NUMBER: GLEON-AF-10-LED-E1-T3-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2610.7	5.4			
FM	(30°-60°)	18297.1	37.6			
FH	(60°-80°)	16837.5	34.6			G5
FVH	(80°-90°)	438.2	0.9			G3/500
BL	(0°-30°)	2197.0	4.5	B3/2500		
BM	(30°-60°)	5024.9	10.3	B4/8500		
BH	(60°-80°)	2928.0	6.0	B4/5000		G4/5000
BVH	(80°-90°)	371.3	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





REPORT NUMBER: P191448

CATALOG NUMBER: GLEON-AF-10-LED-E1-T3-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6005.8	6005.8	6005.8	6005.8	6005.8	6005.8	6005.8	6005.8	6005.8	6005.8	6005.8
2.5°	5954.1	5956.4	5961.1	5980.0	5996.4	5991.7	5994.1	5984.7	5982.3	5968.2	5982.3
5°	5878.8	5885.9	5888.2	5918.8	5937.6	5942.3	5935.3	5923.5	5909.4	5895.3	5902.3
7.5°	5707.0	5725.9	5728.2	5770.6	5801.2	5841.2	5843.5	5845.9	5838.8	5829.4	5843.5
10°	5598.8	5603.5	5601.2	5631.8	5655.3	5700.0	5725.9	5770.6	5789.4	5794.1	5803.5
12.5°	5591.8	5587.1	5580.0	5580.0	5572.9	5591.8	5638.8	5702.3	5747.0	5761.2	5772.9
15°	5667.0	5664.7	5641.2	5605.9	5561.2	5547.1	5587.1	5657.6	5716.5	5747.0	5758.8
17.5°	5836.4	5822.3	5784.7	5704.7	5608.2	5570.6	5575.3	5634.1	5702.3	5742.3	5754.1
20°	6147.0	6147.0	6067.0	5916.4	5744.7	5655.3	5612.9	5648.2	5714.1	5768.2	5784.7
22.5°	6683.3	6688.1	6553.9	6306.9	6017.6	5827.0	5721.2	5714.1	5791.7	5852.9	5871.7
25°	7443.2	7424.4	7236.1	6883.3	6443.4	6128.2	5944.7	5902.3	5968.2	6036.4	6060.0
27.5°	8327.7	8259.5	8036.0	7610.2	7040.9	6579.8	6297.5	6229.3	6292.8	6370.4	6394.0
30°	9202.8	9132.3	8866.4	8400.7	7767.8	7184.4	6779.8	6669.2	6758.6	6869.2	6883.3
32.5°	10077.9	10077.9	9781.6	9238.1	8548.8	7906.6	7422.0	7290.3	7438.5	7572.6	7603.2
35°	11124.8	11129.5	10842.5	10188.5	9447.5	8767.6	8233.6	8137.2	8360.7	8454.7	8527.6
37.5°	12411.6	12437.4	12068.2	11277.7	10466.1	9751.0	9115.8	8984.1	9207.5	9463.9	9699.2
40°	13801.9	13834.8	13427.9	12453.9	11642.3	10894.2	10207.3	9969.7	10341.4	10830.7	11134.2
42.5°	15128.6	15298.0	14905.2	13903.0	13030.2	12256.3	11560.0	11214.2	11680.0	12418.6	12682.1
45°	17045.9	17168.3	16483.6	15575.7	14754.6	13888.9	12966.7	12602.1	13253.8	14185.4	14239.5
47.5°	18323.3	18231.5	17883.4	17318.8	16798.9	15989.6	14601.7	14201.8	15067.5	16163.7	15860.2
50°	19003.2	19031.4	18984.3	19017.3	19036.1	18528.0	16606.0	16057.9	17090.6	18415.1	17716.4
52.5°	19638.3	19450.1	19605.4	20377.0	21308.6	21120.4	18786.7	18215.1	19259.6	20913.3	19678.3
55°	19624.2	19337.2	19843.0	21205.1	23225.8	23442.2	21235.6	20577.0	21553.3	23592.8	21757.9
57.5°	18930.2	18944.3	19723.0	21506.2	24562.0	25625.3	24077.4	23089.3	23985.6	26307.5	23656.4
60°	17975.1	18104.5	19226.7	21456.8	25632.4	27415.6	27563.7	25797.1	26368.7	28775.3	25227.8
62.5°	16434.3	16570.7	18118.6	20943.9	25470.0	29139.9	30716.0	28869.4	28860.0	30271.5	25688.9
65°	14004.2	13964.2	15589.8	19026.7	24108.0	30414.9	33847.2	31525.3	30737.2	30295.0	24762.0
67.5°	10327.3	10148.5	11543.5	14491.1	20038.3	28986.9	35689.1	32908.5	31377.1	28302.4	21929.6
70°	5358.9	5180.1	6309.3	8461.7	13178.5	22623.6	33649.6	32193.4	29963.3	23724.6	17180.0
72.5°	2291.3	2260.7	2719.4	3712.2	6375.1	13049.1	26385.2	27864.9	25710.0	17676.4	11811.7
75°	1540.9	1531.5	1703.2	2023.1	2867.6	5295.4	16511.9	19779.5	18810.2	10960.1	6643.3
77.5°	1209.1	1197.4	1298.5	1453.8	1858.4	2089.0	7327.9	10618.9	9828.6	4770.7	2907.6
80°	945.7	936.3	999.8	1084.5	1336.2	1317.4	2411.3	4225.0	3270.0	1827.9	1413.8
82.5°	745.7	745.7	797.5	799.8	948.1	898.7	1258.5	1860.7	1632.6	1065.7	865.7
85°	682.2	682.2	736.3	597.5	618.7	566.9	781.0	1103.3	1035.1	437.5	376.3
87.5°	343.5	334.1	618.7	529.3	336.4	301.2	381.0	534.0	574.0	242.3	188.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191448

CATALOG NUMBER: GLEON-AF-10-LED-E1-T3-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6005.8	6005.8	6005.8	6005.8	6005.8	6005.8	6005.8	6005.8	6005.8	6005.8
2.5°	5977.6	5975.3	5980.0	5982.3	6001.1	6027.0	6038.8	6055.3	6064.7	6060.0
5°	5907.0	5911.7	5930.6	5944.7	5977.6	6020.0	6043.5	6062.3	6078.8	6071.7
7.5°	5848.2	5860.0	5888.2	5900.0	5918.8	5930.6	5928.2	5935.3	5949.4	5932.9
10°	5815.3	5829.4	5850.6	5834.1	5789.4	5725.9	5667.0	5636.5	5645.9	5634.1
12.5°	5782.3	5801.2	5784.7	5707.0	5582.3	5500.0	5455.4	5460.1	5481.3	5486.0
15°	5763.5	5770.6	5700.0	5554.1	5427.2	5415.4	5438.9	5434.2	5436.6	5436.6
17.5°	5763.5	5744.7	5612.9	5467.2	5413.0	5391.9	5318.9	5227.2	5187.2	5173.1
20°	5794.1	5744.7	5584.7	5488.3	5370.7	5189.5	4996.6	4827.2	4752.0	4730.8
22.5°	5885.9	5801.2	5664.7	5497.6	5163.7	4860.1	4554.4	4352.0	4215.6	4192.1
25°	6071.7	5977.6	5822.3	5373.0	4834.3	4401.5	4053.2	3827.5	3691.0	3672.2
27.5°	6396.3	6335.1	5907.0	5097.8	4396.7	3933.3	3611.0	3436.9	3335.7	3328.7
30°	6885.7	6855.1	5864.7	4690.8	3858.1	3479.3	3324.0	3222.9	3147.6	3145.3
32.5°	7666.7	7419.7	5725.9	4194.4	3366.3	3157.0	3093.5	3032.3	2973.5	2973.5
35°	8671.1	7876.0	5462.5	3662.8	3067.6	2978.2	2898.2	2801.8	2724.1	2719.4
37.5°	9852.1	8158.3	4989.5	3234.7	2926.5	2858.2	2740.6	2597.1	2460.7	2437.2
40°	11044.8	8243.0	4323.8	2971.2	2837.1	2738.2	2594.7	2425.4	2293.7	2286.6
42.5°	12138.6	8080.7	3618.1	2790.0	2747.6	2615.9	2465.4	2314.8	2211.3	2209.0
45°	13056.1	7659.7	3025.3	2618.2	2653.5	2505.4	2371.3	2249.0	2169.0	2152.5
47.5°	13919.5	7064.4	2608.8	2437.2	2559.5	2444.2	2331.3	2216.0	2138.4	2126.6
50°	14921.7	6422.2	2317.2	2260.7	2477.2	2423.1	2364.2	2244.3	2114.8	2100.7
52.5°	16135.5	5867.0	2089.0	2105.4	2413.7	2451.3	2448.9	2324.2	2098.4	2079.6
55°	17490.5	5250.7	1917.2	1978.4	2387.8	2503.1	2470.1	2399.5	2112.5	2084.3
57.5°	18824.3	4530.9	1797.3	1881.9	2350.1	2498.4	2368.9	2267.8	2145.4	2105.4
60°	19824.2	3564.0	1705.6	1797.3	2267.8	2420.7	2258.4	2124.3	2138.4	2107.8
62.5°	19890.1	2754.7	1595.0	1724.4	2143.1	2343.1	2185.4	2060.7	2169.0	2140.7
65°	18720.8	2081.9	1489.1	1637.3	2009.0	2293.7	2114.8	2025.4	2232.5	2201.9
67.5°	15761.4	1675.0	1399.7	1547.9	1874.9	2190.1	2051.3	1992.5	2289.0	2234.8
70°	11378.8	1427.9	1312.7	1439.7	1755.0	2072.5	1994.9	1933.7	2136.0	2051.3
72.5°	7005.6	1237.4	1213.8	1296.2	1663.2	1950.2	1910.2	1823.2	1924.3	1856.0
75°	3498.1	1072.8	1103.3	1155.0	1533.8	1811.4	1769.1	1682.0	1696.2	1682.0
77.5°	1675.0	917.5	974.0	1013.9	1366.8	1653.8	1609.1	1519.7	1503.2	1505.6
80°	1061.0	766.9	821.0	849.3	1220.9	1470.3	1425.6	1336.2	1524.4	1413.8
82.5°	663.4	623.4	637.5	689.3	1063.4	1279.7	1220.9	1140.9	1373.8	1086.9
85°	366.9	435.2	454.0	498.7	818.7	1070.4	1011.6	910.4	816.3	802.2
87.5°	218.8	258.8	265.9	298.8	550.4	774.0	684.6	649.3	538.7	536.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)