

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: P299210

Luminaire Tested: **GLNA-AF-10-LED-E1-T3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299210
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: GLNA-AF-10-LED-E1-T3-7030-800
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45891.6 lumens
Efficiency: N/A
Efficacy: 109.5 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

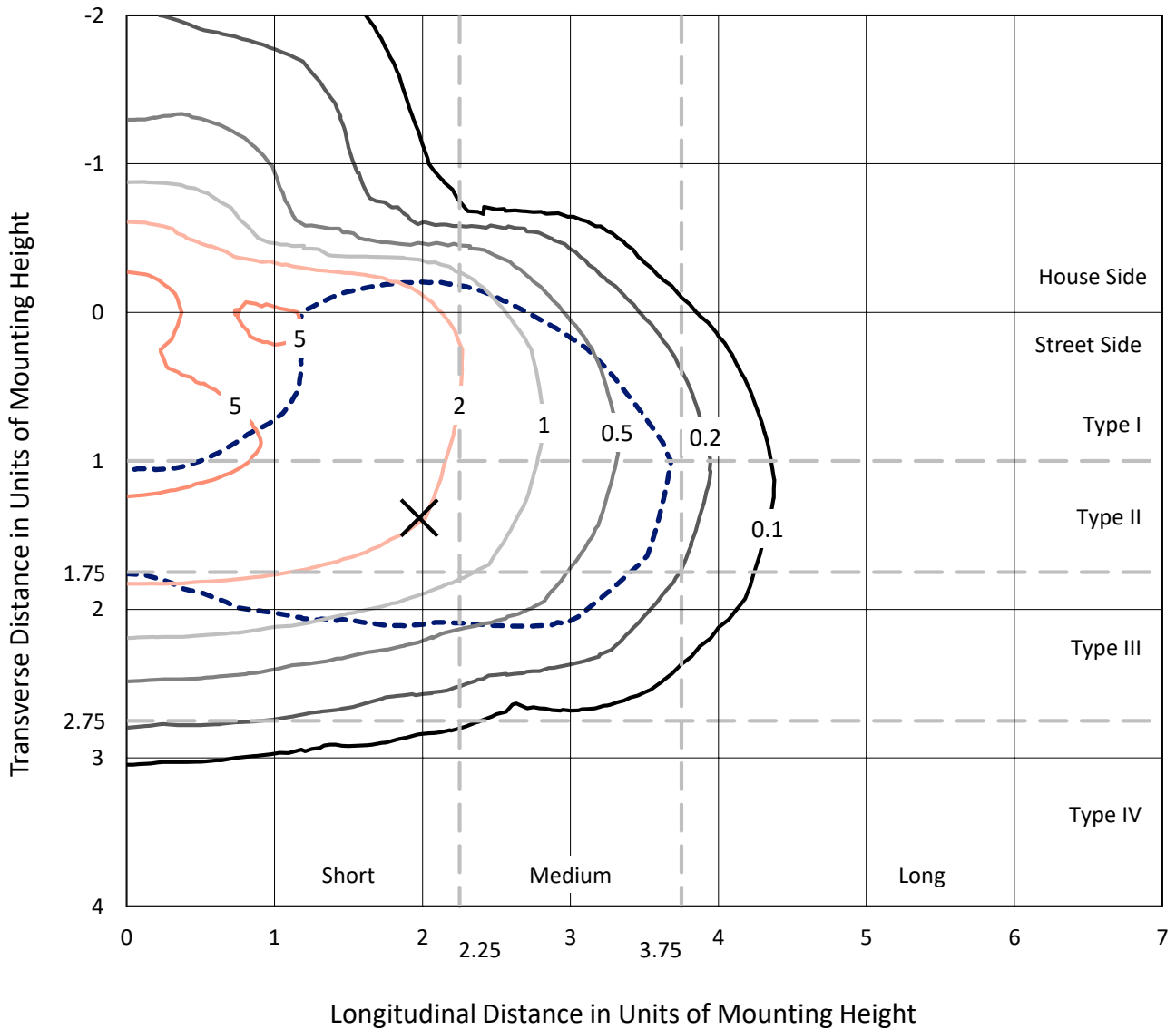


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

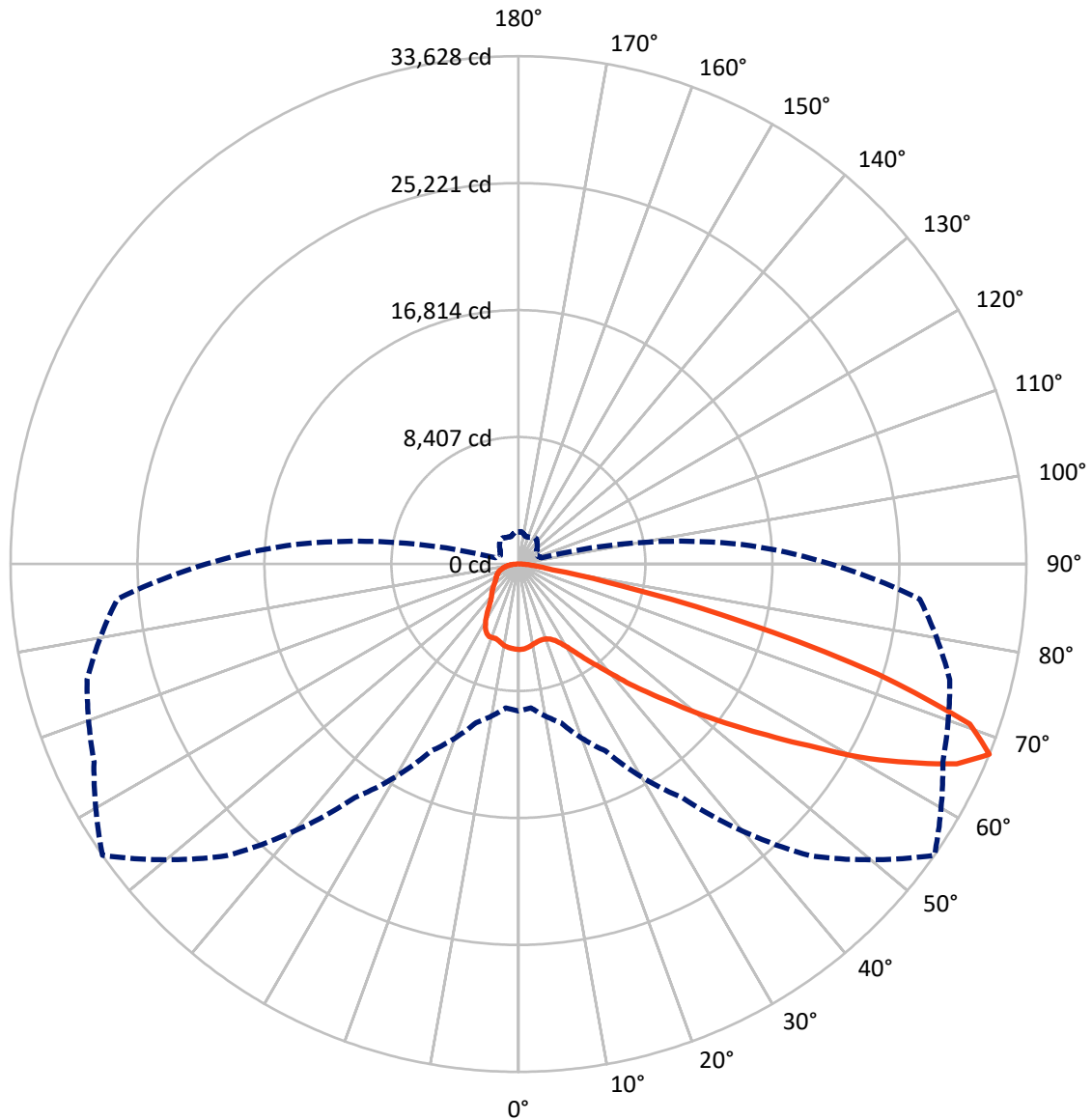


Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - Full Cutoff

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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	9913.6	0.0	9913.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	35978.0	0.0	35978.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	45891.6	0.0	45891.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.2	1.2
10°-20°	1495.9	3.3
20°-30°	2505.9	5.5
30°-40°	4120.8	9.0
40°-50°	6936.5	15.1
50°-60°	10917.6	23.8
60°-70°	13029.0	28.4
70°-80°	5594.9	12.2
80°-90°	762.8	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°	45891.6	100.0
0°-180°	45891.6	100.0



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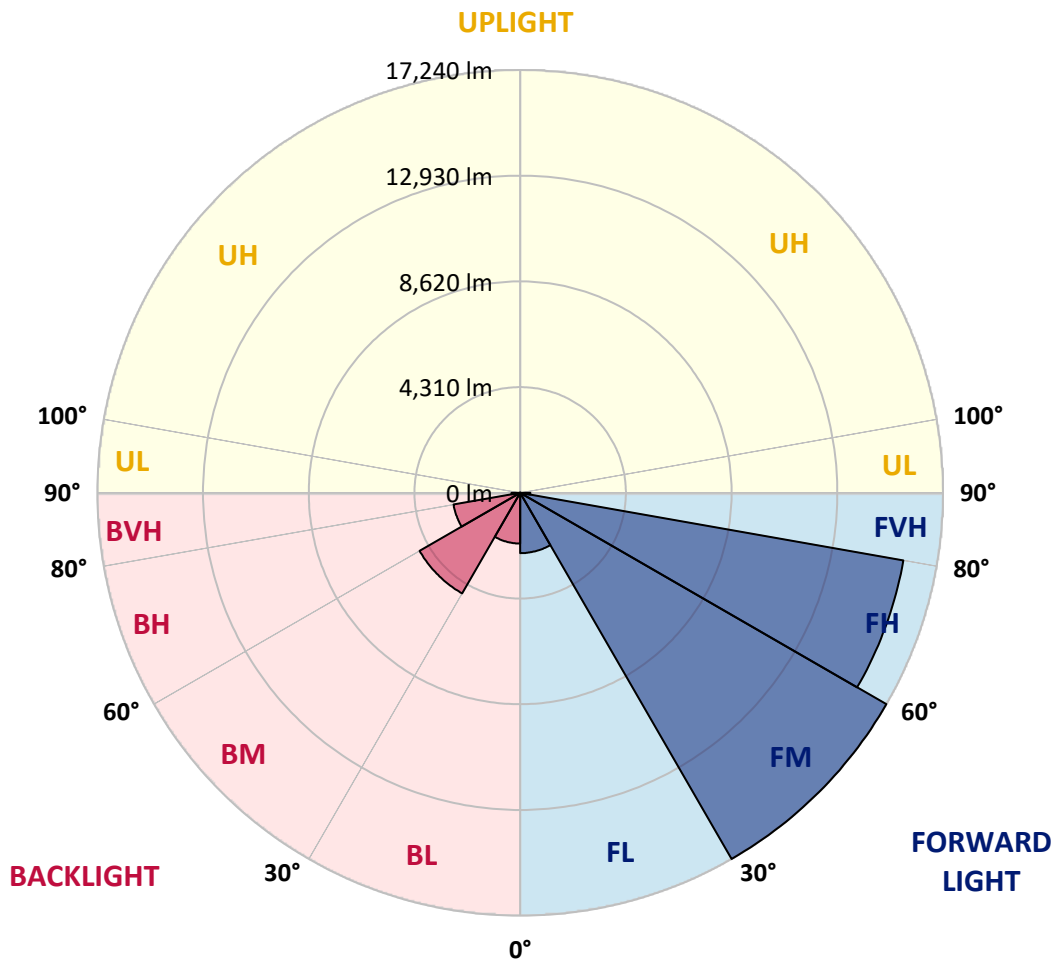
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2459.9	5.4			
FM	(30°-60°)	17240.3	37.6			
FH	(60°-80°)	15864.9	34.6			G5
FVH	(80°-90°)	412.9	0.9			G3/500
BL	(0°-30°)	2070.1	4.5	B3/2500		
BM	(30°-60°)	4734.6	10.3	B3/5000		
BH	(60°-80°)	2758.9	6.0	B4/5000		G4/5000
BVH	(80°-90°)	349.9	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°	5658.9	5658.9	5658.9	5658.9	5658.9	5658.9	5658.9	5658.9	5658.9	5658.9	5658.9
2.5°	5610.2	5612.4	5616.8	5634.5	5650.1	5645.6	5647.8	5639.0	5636.8	5623.5	5636.8
5°	5539.2	5545.9	5548.1	5576.9	5594.7	5599.1	5592.4	5581.4	5568.1	5554.8	5561.4
7.5°	5377.4	5395.2	5397.4	5437.3	5466.1	5503.8	5506.0	5508.2	5501.6	5492.7	5506.0
10°	5275.5	5279.9	5277.7	5306.5	5328.7	5370.8	5395.2	5437.3	5455.0	5459.4	5468.3
12.5°	5268.8	5264.4	5257.7	5257.7	5251.1	5268.8	5313.1	5373.0	5415.1	5428.4	5439.5
15°	5339.7	5337.5	5315.4	5282.1	5240.0	5226.7	5264.4	5330.9	5386.3	5415.1	5426.2
17.5°	5499.3	5486.0	5450.6	5375.2	5284.3	5248.9	5253.3	5308.7	5373.0	5410.7	5421.8
20°	5791.9	5791.9	5716.6	5574.7	5412.9	5328.7	5288.8	5322.0	5384.1	5435.1	5450.6
22.5°	6297.3	6301.7	6175.4	5942.7	5670.0	5490.5	5390.7	5384.1	5457.2	5514.9	5532.6
25°	7013.3	6995.5	6818.2	6485.7	6071.2	5774.2	5601.3	5561.4	5623.5	5687.7	5709.9
27.5°	7846.7	7782.4	7571.8	7170.6	6634.2	6199.8	5933.8	5869.5	5929.4	6002.5	6024.7
30°	8671.3	8604.8	8354.3	7915.4	7319.2	6769.4	6388.2	6284.0	6368.2	6472.4	6485.7
32.5°	9495.8	9495.8	9216.5	8704.5	8055.1	7449.9	6993.3	6869.2	7008.8	7135.2	7164.0
35°	10482.2	10486.6	10216.2	9600.0	8901.8	8261.2	7758.0	7667.2	7877.7	7966.4	8035.1
37.5°	11694.7	11719.1	11371.1	10626.3	9861.6	9187.7	8589.3	8465.1	8675.7	8917.3	9139.0
40°	13004.7	13035.7	12652.2	11734.6	10969.9	10265.0	9617.7	9393.9	9744.1	10205.1	10491.1
42.5°	14254.8	14414.4	14044.3	13100.0	12277.6	11548.4	10892.3	10566.4	11005.3	11701.3	11949.6
45°	16061.3	16176.6	15531.6	14676.0	13902.4	13086.7	12217.8	11874.2	12488.2	13366.0	13417.0
47.5°	17264.9	17178.5	16850.4	16318.5	15828.6	15066.1	13758.3	13381.5	14197.2	15230.1	14944.2
50°	17905.5	17932.1	17887.8	17918.8	17936.6	17457.8	15646.8	15130.4	16103.5	17351.4	16693.1
52.5°	18504.0	18326.7	18473.0	19200.0	20077.8	19900.5	17701.6	17163.0	18147.1	19705.4	18541.7
55°	18490.7	18220.3	18696.9	19980.3	21884.3	22088.2	20009.1	19388.4	20308.3	22230.1	20501.2
57.5°	17836.8	17850.1	18583.8	20264.0	23143.3	24145.2	22686.7	21755.7	22600.3	24788.0	22289.9
60°	16936.9	17058.8	18116.1	20217.4	24151.9	25832.0	25971.7	24307.0	24845.7	27113.2	23770.6
62.5°	15485.0	15613.6	17072.1	19734.2	23998.9	27456.8	28941.9	27201.9	27193.0	28523.0	24205.1
65°	13195.3	13157.6	14689.3	17927.7	22715.5	28658.2	31892.2	29704.4	28961.8	28545.1	23331.7
67.5°	9730.8	9562.3	10876.8	13654.1	18880.8	27312.7	33627.8	31007.8	29564.8	26667.7	20663.0
70°	5049.4	4880.9	5944.9	7973.0	12417.3	21316.9	31706.0	30333.9	28232.6	22354.2	16187.7
72.5°	2158.9	2130.1	2562.4	3497.8	6006.9	12295.4	24861.2	26255.4	24225.0	16655.4	11129.5
75°	1451.9	1443.0	1604.8	1906.3	2702.0	4989.5	15558.2	18637.0	17723.8	10327.1	6259.6
77.5°	1139.3	1128.2	1223.6	1369.8	1751.1	1968.3	6904.6	10005.6	9260.9	4495.2	2739.7
80°	891.1	882.2	942.0	1021.8	1259.0	1241.3	2272.0	3981.0	3081.0	1722.3	1332.2
82.5°	702.7	702.7	751.4	753.6	893.3	846.7	1185.9	1753.3	1538.3	1004.1	815.7
85°	642.8	642.8	693.8	563.0	583.0	534.2	735.9	1039.6	975.3	412.3	354.7
87.5°	323.6	314.8	583.0	498.7	317.0	283.7	359.1	503.2	540.8	228.3	177.3
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°	5658.9	5658.9	5658.9	5658.9	5658.9	5658.9	5658.9	5658.9	5658.9	5658.9
2.5°	5632.3	5630.1	5634.5	5636.8	5654.5	5678.9	5690.0	5705.5	5714.3	5709.9
5°	5565.8	5570.3	5588.0	5601.3	5632.3	5672.2	5694.4	5712.1	5727.6	5721.0
7.5°	5510.4	5521.5	5548.1	5559.2	5576.9	5588.0	5585.8	5592.4	5605.7	5590.2
10°	5479.4	5492.7	5512.6	5497.1	5455.0	5395.2	5339.7	5310.9	5319.8	5308.7
12.5°	5448.4	5466.1	5450.6	5377.4	5259.9	5182.4	5140.3	5144.7	5164.6	5169.1
15°	5430.6	5437.3	5370.8	5233.3	5113.7	5102.6	5124.7	5120.3	5122.5	5122.5
17.5°	5430.6	5412.9	5288.8	5151.3	5100.4	5080.4	5011.7	4925.2	4887.6	4874.3
20°	5459.4	5412.9	5262.2	5171.3	5060.5	4889.8	4708.0	4548.4	4477.5	4457.5
22.5°	5545.9	5466.1	5337.5	5180.1	4865.4	4579.5	4291.3	4100.7	3972.1	3949.9
25°	5721.0	5632.3	5486.0	5062.7	4555.1	4147.2	3819.2	3606.4	3477.8	3460.1
27.5°	6026.9	5969.3	5565.8	4803.3	4142.8	3706.1	3402.5	3238.4	3143.1	3136.5
30°	6487.9	6459.1	5525.9	4419.9	3635.2	3278.3	3132.0	3036.7	2965.8	2963.6
32.5°	7223.8	6991.1	5395.2	3952.2	3171.9	2974.7	2914.8	2857.2	2801.8	2801.8
35°	8170.3	7421.1	5146.9	3451.2	2890.4	2806.2	2730.8	2639.9	2566.8	2562.4
37.5°	9283.0	7687.1	4701.4	3047.8	2757.4	2693.1	2582.3	2447.1	2318.5	2296.4
40°	10406.8	7766.9	4074.1	2799.5	2673.2	2580.1	2444.9	2285.3	2161.2	2154.5
42.5°	11437.6	7614.0	3409.1	2628.9	2589.0	2464.8	2323.0	2181.1	2083.6	2081.4
45°	12302.0	7217.2	2850.5	2467.1	2500.3	2360.7	2234.3	2119.1	2043.7	2028.2
47.5°	13115.5	6656.4	2458.2	2296.4	2411.6	2303.0	2196.6	2088.0	2014.9	2003.8
50°	14059.8	6051.3	2183.3	2130.1	2334.1	2283.1	2227.7	2114.6	1992.7	1979.4
52.5°	15203.5	5528.2	1968.3	1983.8	2274.2	2309.7	2307.5	2190.0	1977.2	1959.5
55°	16480.3	4947.4	1806.5	1864.1	2249.8	2358.4	2327.4	2260.9	1990.5	1963.9
57.5°	17737.1	4269.1	1693.5	1773.3	2214.4	2354.0	2232.1	2136.8	2021.5	1983.8
60°	18679.1	3358.1	1607.0	1693.5	2136.8	2280.9	2127.9	2001.6	2014.9	1986.1
62.5°	18741.2	2595.6	1502.8	1624.8	2019.3	2207.7	2059.2	1941.7	2043.7	2017.1
65°	17639.6	1961.7	1403.1	1542.7	1893.0	2161.2	1992.7	1908.5	2103.5	2074.7
67.5°	14851.1	1578.2	1318.9	1458.5	1766.6	2063.6	1932.9	1877.4	2156.7	2105.8
70°	10721.6	1345.5	1236.9	1356.5	1653.6	1952.8	1879.7	1822.0	2012.7	1932.9
72.5°	6601.0	1165.9	1143.8	1221.3	1567.1	1837.5	1799.9	1717.9	1813.2	1748.9
75°	3296.1	1010.8	1039.6	1088.3	1445.2	1706.8	1666.9	1584.9	1598.2	1584.9
77.5°	1578.2	864.5	917.7	955.3	1287.8	1558.3	1516.1	1431.9	1416.4	1418.6
80°	999.7	722.6	773.6	800.2	1150.4	1385.4	1343.2	1259.0	1436.3	1332.2
82.5°	625.1	587.4	600.7	649.5	1001.9	1205.8	1150.4	1075.0	1294.5	1024.1
85°	345.8	410.1	427.8	469.9	771.4	1008.5	953.1	857.8	769.2	755.9
87.5°	206.1	243.8	250.5	281.5	518.7	729.3	645.0	611.8	507.6	505.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)