

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: P191465

Luminaire Tested: **GLEON-AF-07-LED-E1-T3-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191465
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-07-LED-E1-T3-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47256.2 lumens
Efficiency: N/A
Efficacy: 105.5 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): 448
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

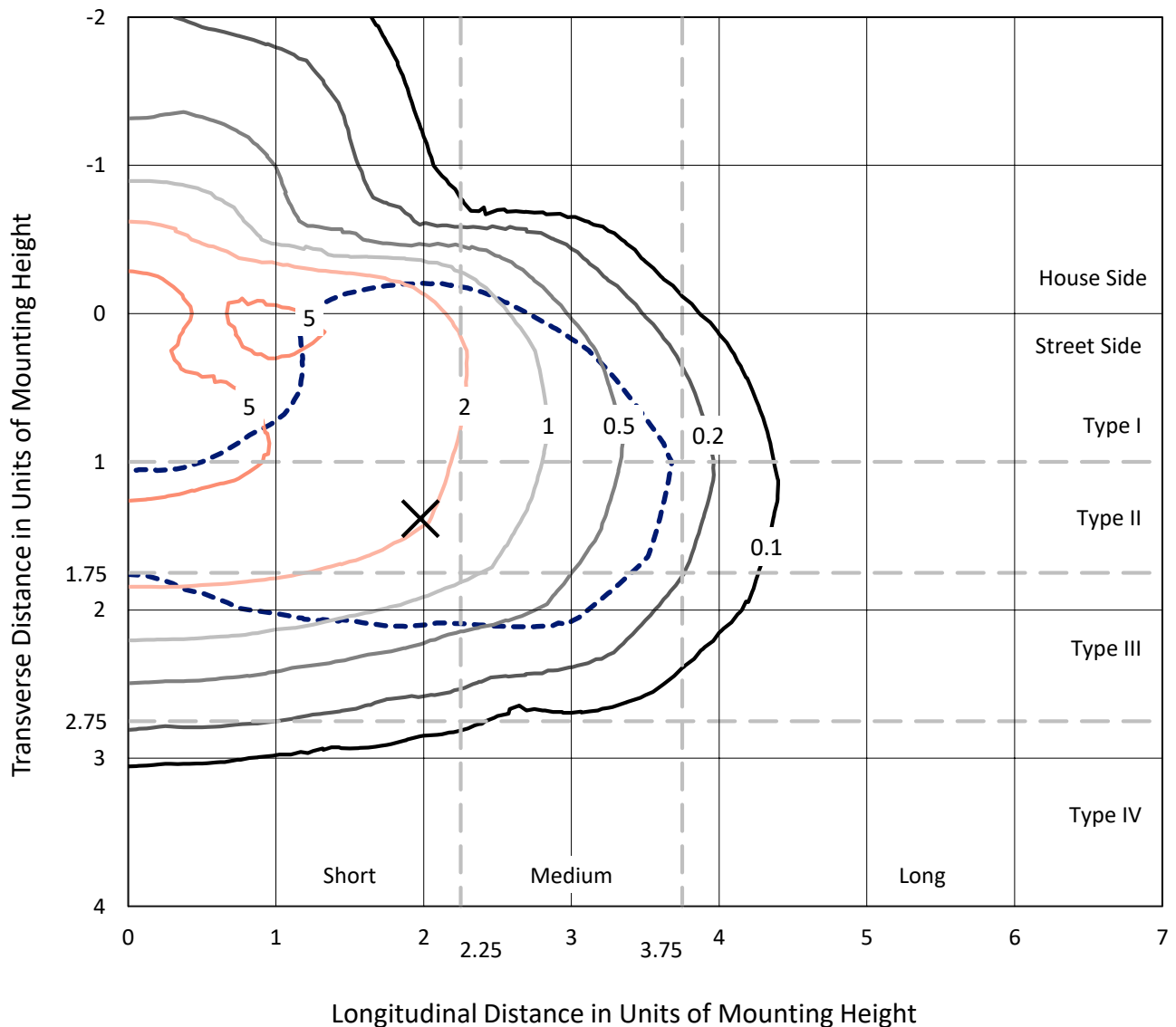


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

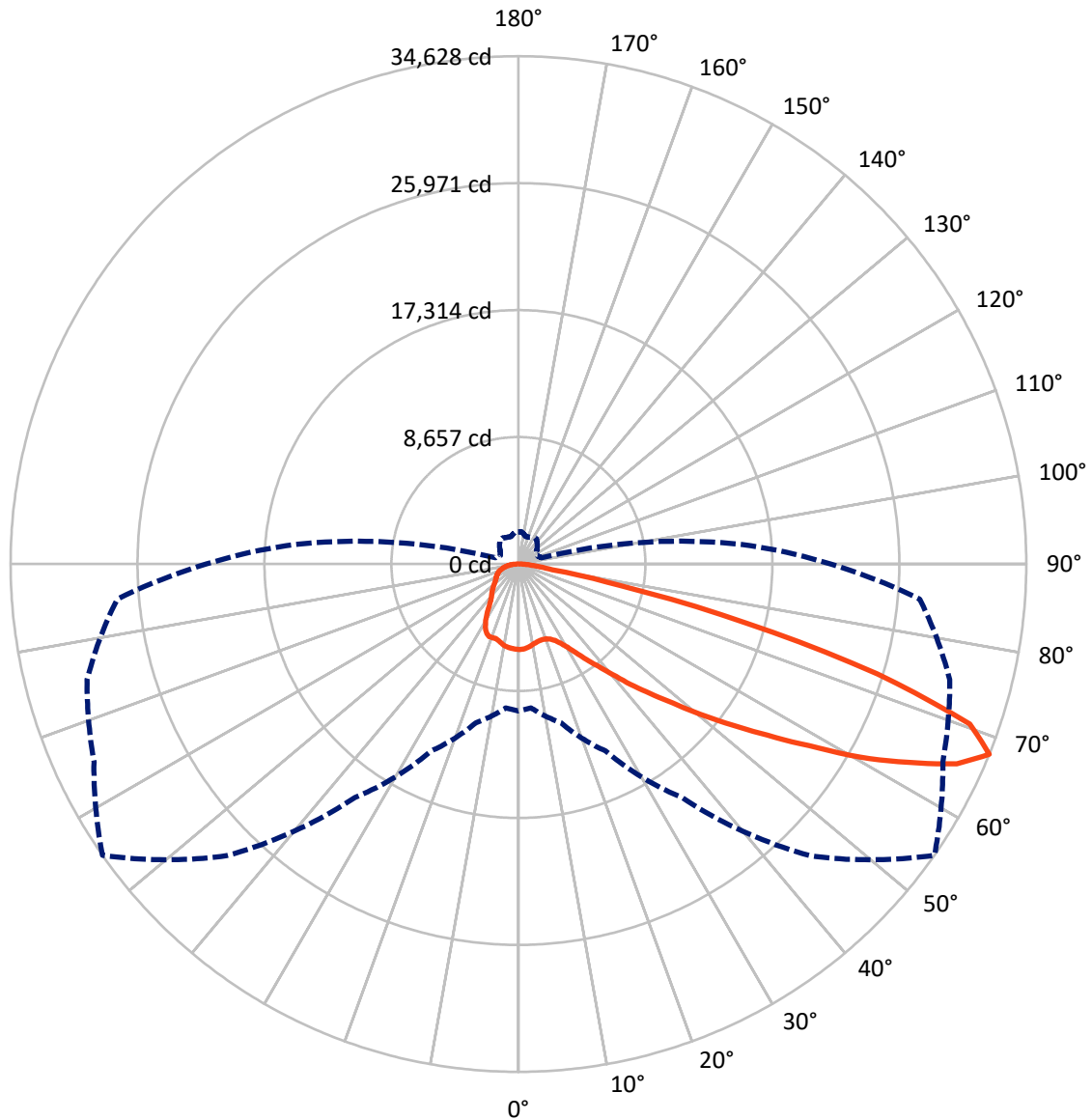


Based on 30 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - Full Cutoff

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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	10208.3	0.0	10208.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	37047.9	0.0	37047.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	47256.2	0.0	47256.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.9	1.2
10°-20°	1540.4	3.3
20°-30°	2580.4	5.5
30°-40°	4243.3	9.0
40°-50°	7142.8	15.1
50°-60°	11242.2	23.8
60°-70°	13416.4	28.4
70°-80°	5761.3	12.2
80°-90°	785.5	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°	47256.2	100.0
0°-180°	47256.2	100.0



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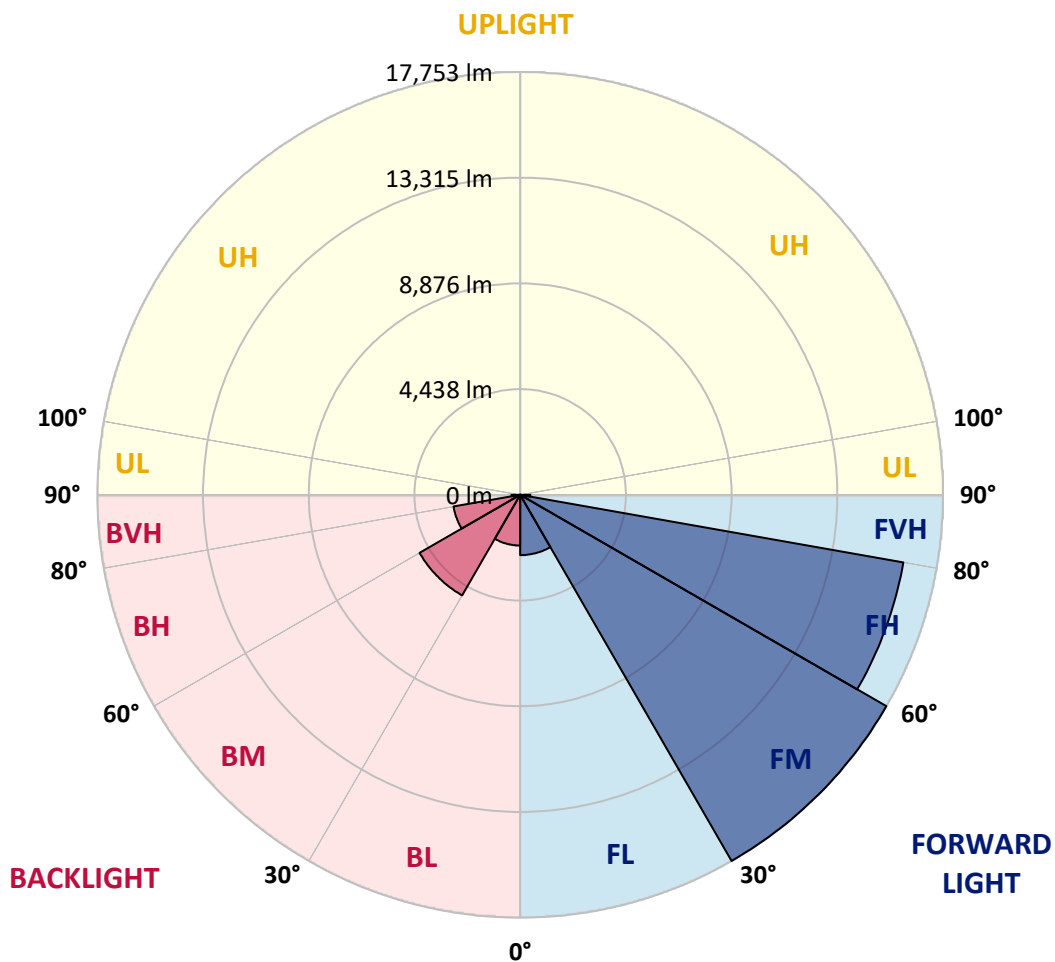
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2533.0	5.4			
FM	(30°-60°)	17752.9	37.6			
FH	(60°-80°)	16336.7	34.6			G5
FVH	(80°-90°)	425.2	0.9			G3/500
BL	(0°-30°)	2131.7	4.5	B3/2500		
BM	(30°-60°)	4875.4	10.3	B3/5000		
BH	(60°-80°)	2840.9	6.0	B4/5000		G4/5000
BVH	(80°-90°)	360.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5827.2	5827.2	5827.2	5827.2	5827.2	5827.2	5827.2	5827.2	5827.2	5827.2	5827.2
2.5°	5777.0	5779.3	5783.9	5802.1	5818.0	5813.5	5815.8	5806.7	5804.4	5790.7	5804.4
5°	5704.0	5710.8	5713.1	5742.7	5761.1	5765.6	5758.7	5747.3	5733.6	5719.9	5726.8
7.5°	5537.3	5555.5	5557.9	5598.9	5628.6	5667.5	5669.7	5672.0	5665.2	5656.0	5669.7
10°	5432.4	5436.9	5434.6	5464.3	5487.1	5530.5	5555.5	5598.9	5617.2	5621.8	5630.9
12.5°	5425.5	5420.9	5414.1	5414.1	5407.2	5425.5	5471.2	5532.7	5576.1	5589.8	5601.3
15°	5498.6	5496.2	5473.4	5439.2	5395.9	5382.2	5420.9	5489.4	5546.4	5576.1	5587.6
17.5°	5662.9	5649.1	5612.6	5535.1	5441.5	5405.0	5409.5	5466.5	5532.7	5571.6	5583.0
20°	5964.1	5964.1	5886.6	5740.5	5573.9	5487.1	5446.0	5480.3	5544.2	5596.7	5612.6
22.5°	6484.6	6489.1	6359.1	6119.4	5838.6	5653.7	5551.0	5544.2	5619.5	5678.8	5697.1
25°	7221.8	7203.5	7020.9	6678.5	6251.8	5945.9	5767.9	5726.8	5790.7	5856.9	5879.7
27.5°	8080.0	8013.8	7797.0	7383.9	6831.5	6384.1	6110.3	6044.0	6105.7	6181.0	6203.8
30°	8929.1	8860.6	8602.7	8150.8	7536.8	6970.7	6578.2	6470.9	6557.6	6664.9	6678.5
32.5°	9778.2	9778.2	9490.6	8963.4	8294.6	7671.4	7201.3	7073.5	7217.2	7347.3	7377.0
35°	10793.9	10798.5	10520.0	9885.5	9166.5	8506.9	7988.7	7895.1	8112.0	8203.2	8274.0
37.5°	12042.5	12067.5	11709.2	10942.3	10154.8	9461.0	8844.6	8716.9	8933.7	9182.5	9410.7
40°	13391.4	13423.4	13028.5	12083.5	11296.0	10570.3	9903.7	9673.2	10033.8	10508.6	10803.1
42.5°	14678.7	14843.0	14461.9	13489.6	12642.8	11891.8	11216.1	10880.6	11332.6	12049.3	12305.0
45°	16539.0	16657.6	15993.4	15112.4	14315.8	13475.8	12581.1	12227.3	12859.6	13763.5	13816.0
47.5°	17778.4	17689.4	17351.5	16803.7	16299.3	15514.1	14167.5	13779.5	14619.4	15683.1	15388.6
50°	18438.0	18465.4	18419.8	18451.7	18470.0	17976.9	16112.1	15580.4	16582.3	17867.4	17189.5
52.5°	19054.3	18871.7	19022.3	19771.0	20674.9	20492.3	18228.0	17673.3	18686.8	20291.4	19093.1
55°	19040.6	18762.1	19252.9	20574.4	22535.1	22745.1	20604.1	19965.0	20912.2	22891.2	21110.8
57.5°	18367.3	18380.9	19136.4	20866.6	23831.5	24863.2	23361.3	22402.7	23272.3	25525.2	22952.8
60°	17440.6	17566.1	18654.8	20818.7	24870.1	26600.2	26744.0	25029.9	25584.5	27919.5	24477.5
62.5°	15945.6	16077.9	17579.8	20321.0	24712.5	28273.2	29802.5	28010.7	28001.6	29371.2	24924.8
65°	13587.7	13548.9	15126.1	18460.8	23391.0	29510.4	32840.5	30587.8	29823.1	29394.0	24025.5
67.5°	10020.1	9846.7	11200.2	14060.2	19442.3	28124.9	34627.7	31929.9	30443.9	27460.7	21277.4
70°	5199.6	5026.1	6121.6	8210.1	12786.6	21950.8	32648.8	31235.9	29072.2	23019.0	16669.1
72.5°	2223.2	2193.5	2638.6	3601.8	6185.6	12661.0	25600.5	27036.2	24945.4	17150.7	11460.4
75°	1495.0	1485.9	1652.6	1962.9	2782.3	5137.9	16020.8	19191.2	18250.9	10634.2	6445.7
77.5°	1173.2	1161.8	1260.0	1410.5	1803.2	2026.9	7110.0	10303.2	9536.3	4628.9	2821.2
80°	917.6	908.5	970.1	1052.2	1296.5	1278.2	2339.6	4099.4	3172.7	1773.5	1371.8
82.5°	723.5	723.5	773.8	776.0	919.8	872.0	1221.1	1805.4	1584.0	1034.0	839.9
85°	662.0	662.0	714.4	579.7	600.3	550.0	757.8	1070.5	1004.3	424.5	365.2
87.5°	333.3	324.1	600.3	513.5	326.4	292.2	369.8	518.1	556.9	235.1	182.6
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°	5827.2	5827.2	5827.2	5827.2	5827.2	5827.2	5827.2	5827.2	5827.2	5827.2
2.5°	5799.8	5797.6	5802.1	5804.4	5822.6	5847.8	5859.2	5875.1	5884.3	5879.7
5°	5731.4	5735.9	5754.2	5767.9	5799.8	5840.9	5863.8	5882.0	5897.9	5891.1
7.5°	5674.3	5685.7	5713.1	5724.5	5742.7	5754.2	5751.8	5758.7	5772.4	5756.5
10°	5642.3	5656.0	5676.6	5660.6	5617.2	5555.5	5498.6	5468.9	5478.0	5466.5
12.5°	5610.4	5628.6	5612.6	5537.3	5416.3	5336.4	5293.2	5297.7	5318.2	5322.8
15°	5592.1	5598.9	5530.5	5389.0	5265.7	5254.3	5277.1	5272.6	5274.8	5274.8
17.5°	5592.1	5573.9	5446.0	5304.5	5252.0	5231.5	5160.7	5071.7	5032.9	5019.2
20°	5621.8	5573.9	5418.7	5325.1	5210.9	5035.2	4848.0	4683.7	4610.6	4590.1
22.5°	5710.8	5628.6	5496.2	5334.2	5010.1	4715.6	4418.9	4222.6	4090.3	4067.5
25°	5891.1	5799.8	5649.1	5213.3	4690.5	4270.5	3932.7	3713.6	3581.2	3562.9
27.5°	6206.1	6146.8	5731.4	4946.2	4266.0	3816.3	3503.6	3334.7	3236.6	3229.8
30°	6680.9	6651.2	5690.3	4551.3	3743.3	3375.8	3225.2	3127.1	3054.0	3051.7
32.5°	7438.7	7199.0	5555.5	4069.7	3266.3	3063.1	3001.4	2942.1	2885.0	2885.0
35°	8413.3	7641.7	5299.9	3553.8	2976.4	2889.6	2812.0	2718.5	2643.1	2638.6
37.5°	9559.1	7915.7	4841.2	3138.4	2839.4	2773.2	2659.1	2519.8	2387.5	2364.7
40°	10716.3	7997.8	4195.2	2882.8	2752.7	2656.8	2517.6	2353.3	2225.4	2218.6
42.5°	11777.6	7840.4	3510.5	2707.0	2665.9	2538.1	2392.1	2246.0	2145.5	2143.3
45°	12667.8	7431.8	2935.3	2540.4	2574.7	2430.8	2300.7	2182.1	2104.4	2088.5
47.5°	13505.5	6854.3	2531.3	2364.7	2483.3	2371.5	2261.9	2150.1	2074.7	2063.4
50°	14477.8	6231.2	2248.2	2193.5	2403.4	2350.9	2293.9	2177.5	2051.9	2038.2
52.5°	15655.6	5692.5	2026.9	2042.8	2341.8	2378.4	2376.1	2255.1	2036.0	2017.8
55°	16970.3	5094.5	1860.2	1919.6	2316.8	2428.6	2396.6	2328.1	2049.7	2022.3
57.5°	18264.5	4396.1	1743.8	1826.0	2280.3	2424.0	2298.5	2200.4	2081.6	2042.8
60°	19234.5	3458.0	1654.8	1743.8	2200.4	2348.7	2191.2	2061.1	2074.7	2045.1
62.5°	19298.5	2672.8	1547.5	1673.0	2079.4	2273.4	2120.5	1999.5	2104.4	2077.1
65°	18164.1	2020.0	1444.8	1588.6	1949.2	2225.4	2051.9	1965.2	2166.1	2136.4
67.5°	15292.7	1625.2	1358.1	1501.9	1819.1	2125.0	1990.4	1933.3	2220.8	2168.3
70°	11040.4	1385.5	1273.7	1396.8	1702.7	2010.9	1935.5	1876.2	2072.5	1990.4
72.5°	6797.3	1200.6	1177.7	1257.6	1613.7	1892.2	1853.4	1768.9	1867.1	1800.9
75°	3394.0	1040.9	1070.5	1120.7	1488.2	1757.5	1716.4	1632.0	1645.7	1632.0
77.5°	1625.2	890.2	945.0	983.8	1326.2	1604.6	1561.2	1474.5	1458.5	1460.8
80°	1029.4	744.1	796.6	824.0	1184.6	1426.6	1383.2	1296.5	1479.1	1371.8
82.5°	643.6	604.9	618.6	668.8	1031.6	1241.7	1184.6	1107.0	1333.0	1054.6
85°	356.1	422.3	440.5	483.9	794.3	1038.5	981.5	883.3	792.1	778.4
87.5°	212.3	251.0	257.9	289.9	534.1	750.9	664.2	629.9	522.7	520.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)