

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: P191455

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191455
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 43077.5 lumens
Efficiency: N/A
Efficacy: 110.2 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): 391
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

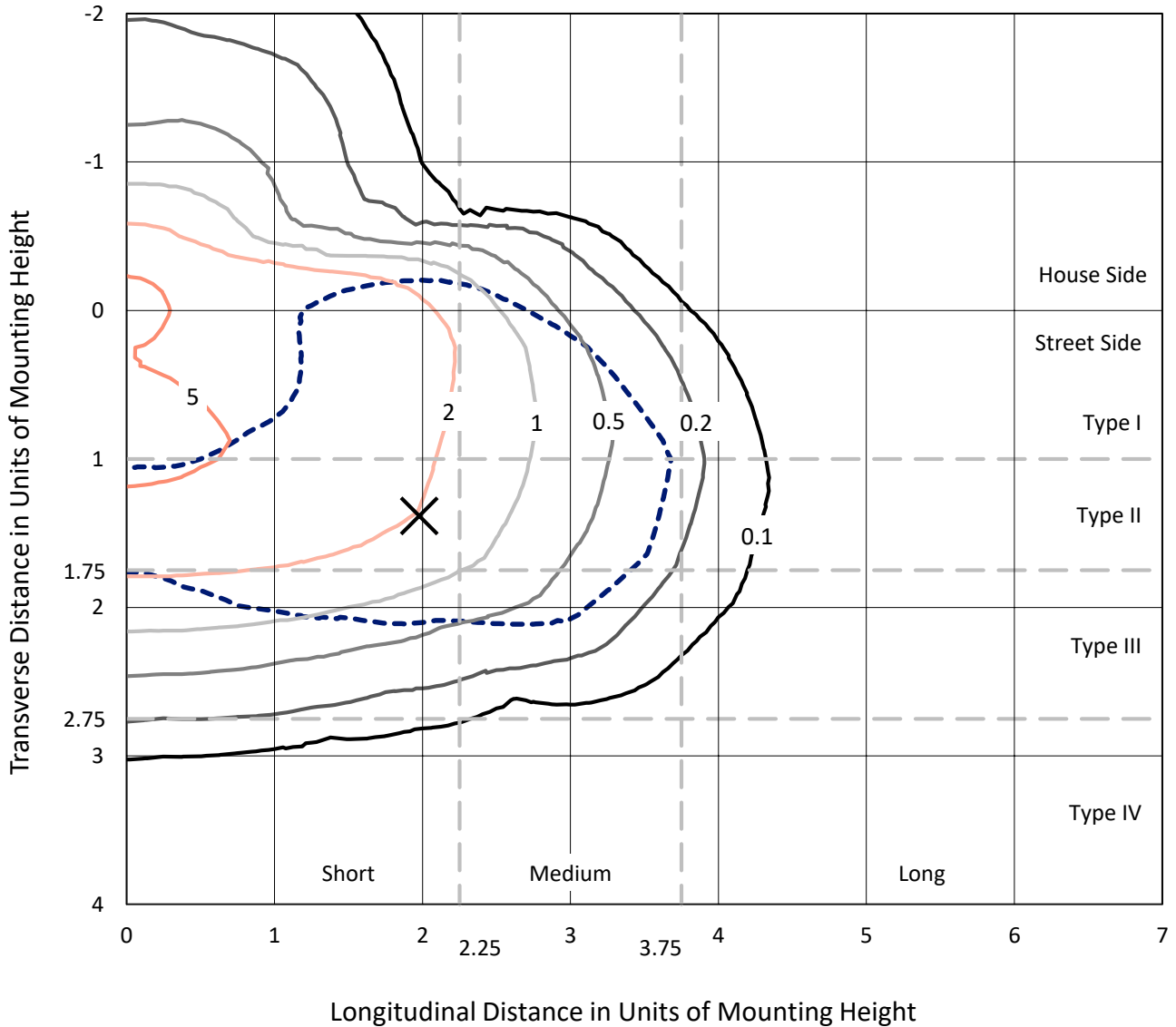


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

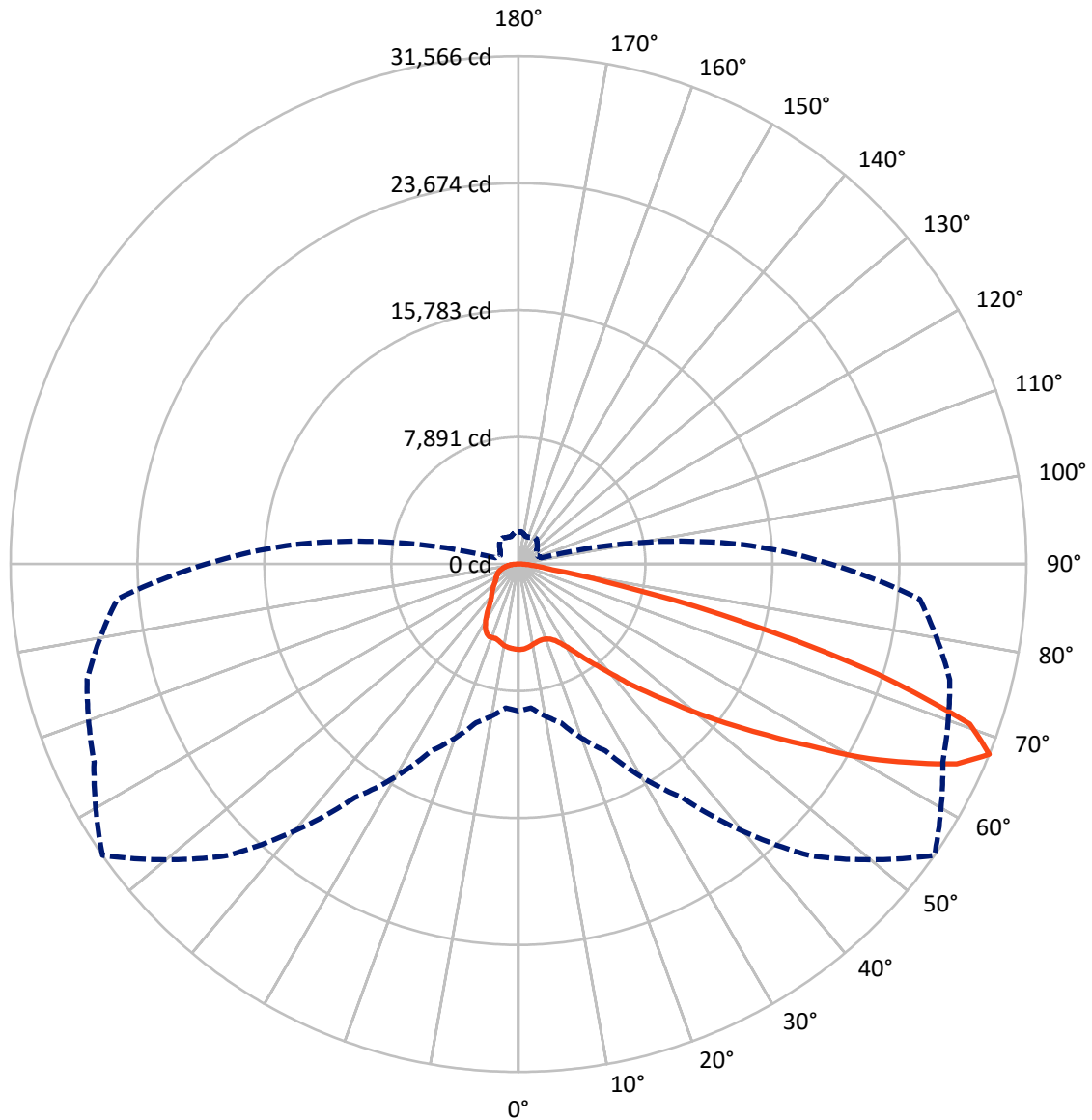


Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - Full Cutoff

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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	9305.7	0.0	9305.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	33771.8	0.0	33771.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	43077.5	0.0	43077.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.8	1.2
10°-20°	1404.2	3.3
20°-30°	2352.2	5.5
30°-40°	3868.1	9.0
40°-50°	6511.2	15.1
50°-60°	10248.1	23.8
60°-70°	12230.0	28.4
70°-80°	5251.8	12.2
80°-90°	716.0	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°	43077.5	100.0
0°-180°	43077.5	100.0



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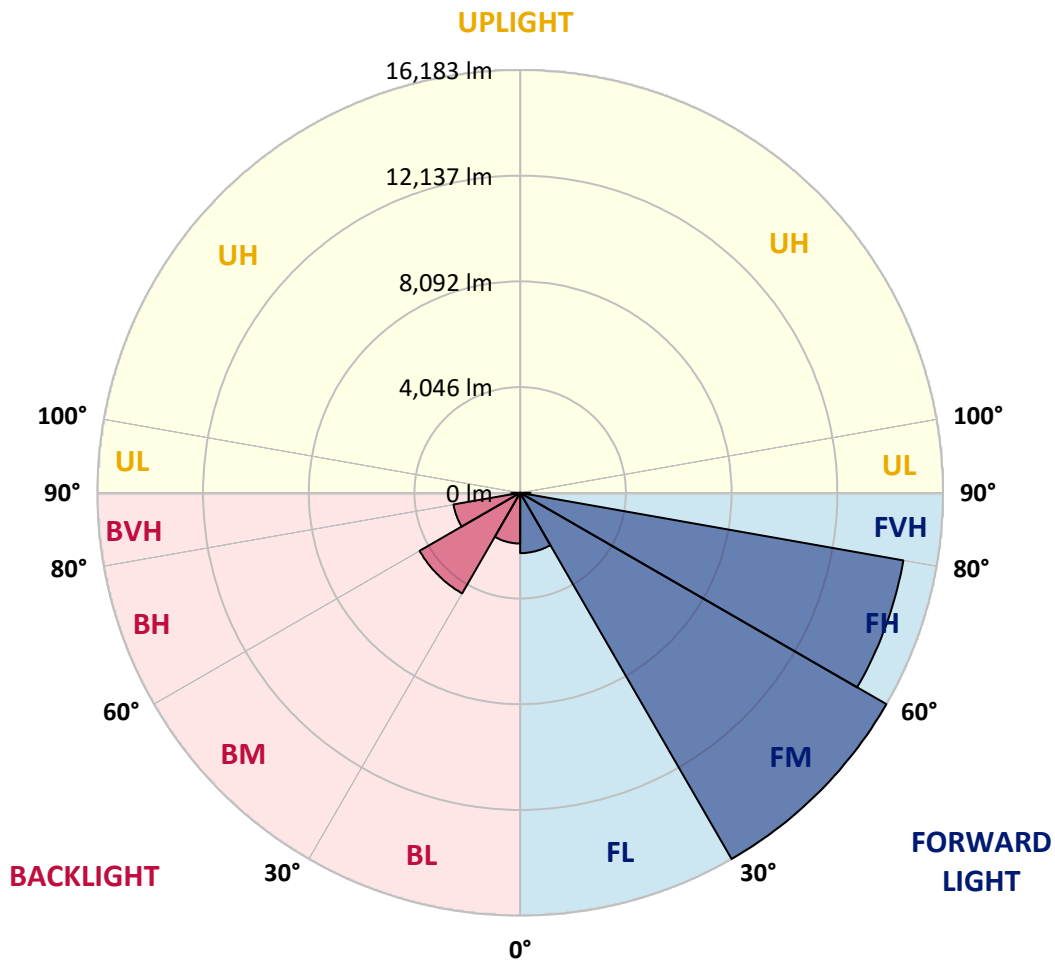
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2309.1	5.4			
FM	(30°-60°)	16183.1	37.6			
FH	(60°-80°)	14892.1	34.6			G5
FVH	(80°-90°)	387.6	0.9			G3/500
BL	(0°-30°)	1943.2	4.5	B3/2500		
BM	(30°-60°)	4444.3	10.3	B3/5000		
BH	(60°-80°)	2589.7	6.0	B4/5000		G4/5000
BVH	(80°-90°)	328.4	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°	5311.9	5311.9	5311.9	5311.9	5311.9	5311.9	5311.9	5311.9	5311.9	5311.9	5311.9
2.5°	5266.2	5268.2	5272.4	5289.1	5303.6	5299.4	5301.5	5293.2	5291.1	5278.6	5291.1
5°	5199.6	5205.8	5207.8	5235.0	5251.6	5255.7	5249.5	5239.1	5226.7	5214.1	5220.4
7.5°	5047.6	5064.3	5066.4	5103.8	5130.9	5166.3	5168.4	5170.4	5164.2	5155.9	5168.4
10°	4952.0	4956.1	4954.0	4981.1	5001.9	5041.4	5064.3	5103.8	5120.5	5124.7	5133.0
12.5°	4945.8	4941.6	4935.3	4935.3	4929.1	4945.8	4987.3	5043.6	5083.0	5095.5	5106.0
15°	5012.4	5010.2	4989.4	4958.2	4918.7	4906.2	4941.6	5004.0	5056.0	5083.0	5093.5
17.5°	5162.1	5149.6	5116.4	5045.6	4960.3	4927.0	4931.1	4983.2	5043.6	5078.8	5089.3
20°	5436.8	5436.8	5366.0	5232.9	5081.0	5001.9	4964.5	4995.7	5053.9	5101.8	5116.4
22.5°	5911.1	5915.3	5796.8	5578.3	5322.3	5153.8	5060.1	5053.9	5122.6	5176.6	5193.3
25°	6583.2	6566.5	6400.1	6088.0	5699.0	5420.1	5257.9	5220.4	5278.6	5339.0	5359.8
27.5°	7365.6	7305.2	7107.6	6730.9	6227.4	5819.6	5570.0	5509.6	5565.8	5634.4	5655.3
30°	8139.5	8077.1	7842.0	7430.0	6870.3	6354.4	5996.4	5898.6	5977.7	6075.5	6088.0
32.5°	8913.6	8913.6	8651.4	8170.7	7561.1	6993.1	6564.5	6448.0	6579.0	6697.7	6724.7
35°	9839.5	9843.7	9589.8	9011.4	8356.0	7754.6	7282.3	7197.0	7394.7	7477.9	7542.4
37.5°	10977.6	11000.4	10673.8	9974.7	9256.9	8624.3	8062.6	7946.1	8143.7	8370.5	8578.6
40°	12207.2	12236.3	11876.4	11015.0	10297.2	9635.6	9028.0	8817.8	9146.6	9579.3	9847.7
42.5°	13380.7	13530.6	13183.1	12296.7	11524.8	10840.2	10224.4	9918.5	10330.5	10983.8	11216.9
45°	15076.5	15184.7	14579.2	13776.1	13049.9	12284.2	11468.6	11146.1	11722.4	12546.4	12594.3
47.5°	16206.3	16125.1	15817.2	15317.8	14858.0	14142.2	12914.7	12560.9	13326.6	14296.2	14027.8
50°	16807.6	16832.6	16790.9	16820.1	16836.7	16387.3	14687.4	14202.5	15116.0	16287.4	15669.5
52.5°	17369.3	17202.9	17340.2	18022.7	18846.6	18680.2	16616.1	16110.6	17034.4	18497.1	17404.7
55°	17356.8	17103.0	17550.4	18755.1	20542.4	20733.8	18782.1	18199.5	19063.0	20867.0	19244.1
57.5°	16743.0	16755.5	17444.3	19021.4	21724.2	22664.6	21295.6	20421.7	21214.4	23268.0	20923.1
60°	15898.3	16012.8	17005.2	18977.7	22670.8	24248.0	24379.1	22816.5	23322.2	25450.6	22313.0
62.5°	14535.5	14656.1	16025.2	18524.1	22527.3	25773.1	27167.2	25533.9	25525.5	26773.9	22720.8
65°	12386.2	12350.8	13788.6	16828.4	21322.6	26900.8	29936.6	27882.9	27185.9	26794.8	21901.1
67.5°	9134.1	8976.0	10209.8	12816.9	17723.0	25637.9	31565.7	29106.3	27751.8	25032.4	19395.9
70°	4739.7	4581.6	5580.3	7484.1	11655.8	20009.7	29761.7	28473.8	26501.4	20983.5	15195.0
72.5°	2026.6	1999.6	2405.3	3283.3	5638.6	11541.4	23336.7	24645.4	22739.5	15634.1	10447.0
75°	1362.9	1354.5	1506.4	1789.3	2536.3	4683.6	14604.2	17494.2	16637.0	9693.8	5875.8
77.5°	1069.5	1059.1	1148.6	1285.8	1643.7	1847.7	6481.2	9392.1	8693.0	4219.6	2571.7
80°	836.5	828.1	884.2	959.2	1181.8	1165.1	2132.6	3736.8	2892.1	1616.7	1250.5
82.5°	659.6	659.6	705.3	707.5	838.5	794.8	1113.2	1645.8	1444.0	942.5	765.7
85°	603.4	603.4	651.2	528.5	547.2	501.5	690.8	975.8	915.5	387.0	332.9
87.5°	303.8	295.4	547.2	468.1	297.6	266.3	337.1	472.3	507.7	214.3	166.4
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°	5311.9	5311.9	5311.9	5311.9	5311.9	5311.9	5311.9	5311.9	5311.9	5311.9
2.5°	5286.9	5284.9	5289.1	5291.1	5307.8	5330.7	5341.0	5355.7	5363.9	5359.8
5°	5224.5	5228.7	5245.4	5257.9	5286.9	5324.5	5345.2	5361.9	5376.4	5370.2
7.5°	5172.6	5182.9	5207.8	5218.3	5235.0	5245.4	5243.2	5249.5	5262.0	5247.4
10°	5143.4	5155.9	5174.6	5160.1	5120.5	5064.3	5012.4	4985.2	4993.5	4983.2
12.5°	5114.2	5130.9	5116.4	5047.6	4937.4	4864.5	4825.1	4829.2	4848.0	4852.1
15°	5097.6	5103.8	5041.4	4912.4	4800.1	4789.7	4810.5	4806.3	4808.4	4808.4
17.5°	5097.6	5081.0	4964.5	4835.5	4787.6	4768.9	4704.3	4623.2	4587.8	4575.4
20°	5124.7	5081.0	4939.5	4854.2	4750.2	4590.0	4419.4	4269.5	4202.9	4184.2
22.5°	5205.8	5130.9	5010.2	4862.5	4567.1	4298.6	4028.2	3849.3	3728.6	3707.7
25°	5370.2	5286.9	5149.6	4752.2	4275.7	3892.9	3584.9	3385.3	3264.5	3247.9
27.5°	5657.3	5603.2	5224.5	4508.8	3888.7	3478.9	3193.9	3039.8	2950.4	2944.2
30°	6090.1	6063.0	5187.1	4148.9	3412.3	3077.3	2940.0	2850.6	2784.0	2781.8
32.5°	6780.8	6562.4	5064.3	3709.8	2977.4	2792.2	2736.1	2682.0	2629.9	2629.9
35°	7669.3	6966.1	4831.3	3239.6	2713.2	2634.1	2563.4	2478.1	2409.4	2405.3
37.5°	8713.8	7215.7	4413.1	2860.9	2588.4	2528.0	2424.0	2297.0	2176.3	2155.6
40°	9768.7	7290.7	3824.3	2627.9	2509.3	2421.9	2295.0	2145.1	2028.6	2022.4
42.5°	10736.2	7147.1	3200.1	2467.7	2430.2	2313.7	2180.5	2047.3	1955.8	1953.7
45°	11547.7	6774.6	2675.7	2315.8	2347.0	2215.9	2097.3	1989.1	1918.3	1903.8
47.5°	12311.2	6248.2	2307.5	2155.6	2263.8	2161.8	2062.0	1960.0	1891.3	1880.9
50°	13197.6	5680.2	2049.5	1999.6	2191.0	2143.1	2091.0	1984.9	1870.5	1858.0
52.5°	14271.3	5189.1	1847.7	1862.2	2134.8	2168.0	2166.0	2055.7	1855.9	1839.3
55°	15469.7	4644.0	1695.7	1749.9	2111.9	2213.9	2184.7	2122.3	1868.4	1843.5
57.5°	16649.4	4007.3	1589.7	1664.5	2078.5	2209.7	2095.2	2005.8	1897.6	1862.2
60°	17533.7	3152.2	1508.4	1589.7	2005.8	2141.0	1997.4	1878.9	1891.3	1864.2
62.5°	17592.0	2436.5	1410.6	1525.1	1895.5	2072.3	1933.0	1822.7	1918.3	1893.4
65°	16557.9	1841.4	1317.0	1448.1	1776.9	2028.6	1870.5	1791.5	1974.5	1947.5
67.5°	13940.5	1481.4	1238.0	1369.1	1658.3	1937.1	1814.3	1762.3	2024.5	1976.6
70°	10064.2	1262.9	1161.0	1273.4	1552.1	1833.0	1764.4	1710.3	1889.3	1814.3
72.5°	6196.2	1094.5	1073.6	1146.4	1471.0	1724.9	1689.5	1612.5	1702.0	1641.6
75°	3093.9	948.8	975.8	1021.6	1356.6	1602.1	1564.7	1487.7	1500.2	1487.7
77.5°	1481.4	811.5	861.4	896.7	1208.8	1462.7	1423.1	1344.1	1329.5	1331.6
80°	938.4	678.3	726.2	751.2	1079.8	1300.4	1260.9	1181.8	1348.2	1250.5
82.5°	586.8	551.4	563.9	609.7	940.5	1131.9	1079.8	1009.1	1215.1	961.3
85°	324.6	384.9	401.6	441.1	724.0	946.7	894.7	805.2	722.0	709.5
87.5°	193.5	228.8	235.1	264.2	486.9	684.6	605.5	574.3	476.5	474.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)