

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: P193188

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193188
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-T3-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46048.4 lumens
Efficiency: N/A
Efficacy: 109.9 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



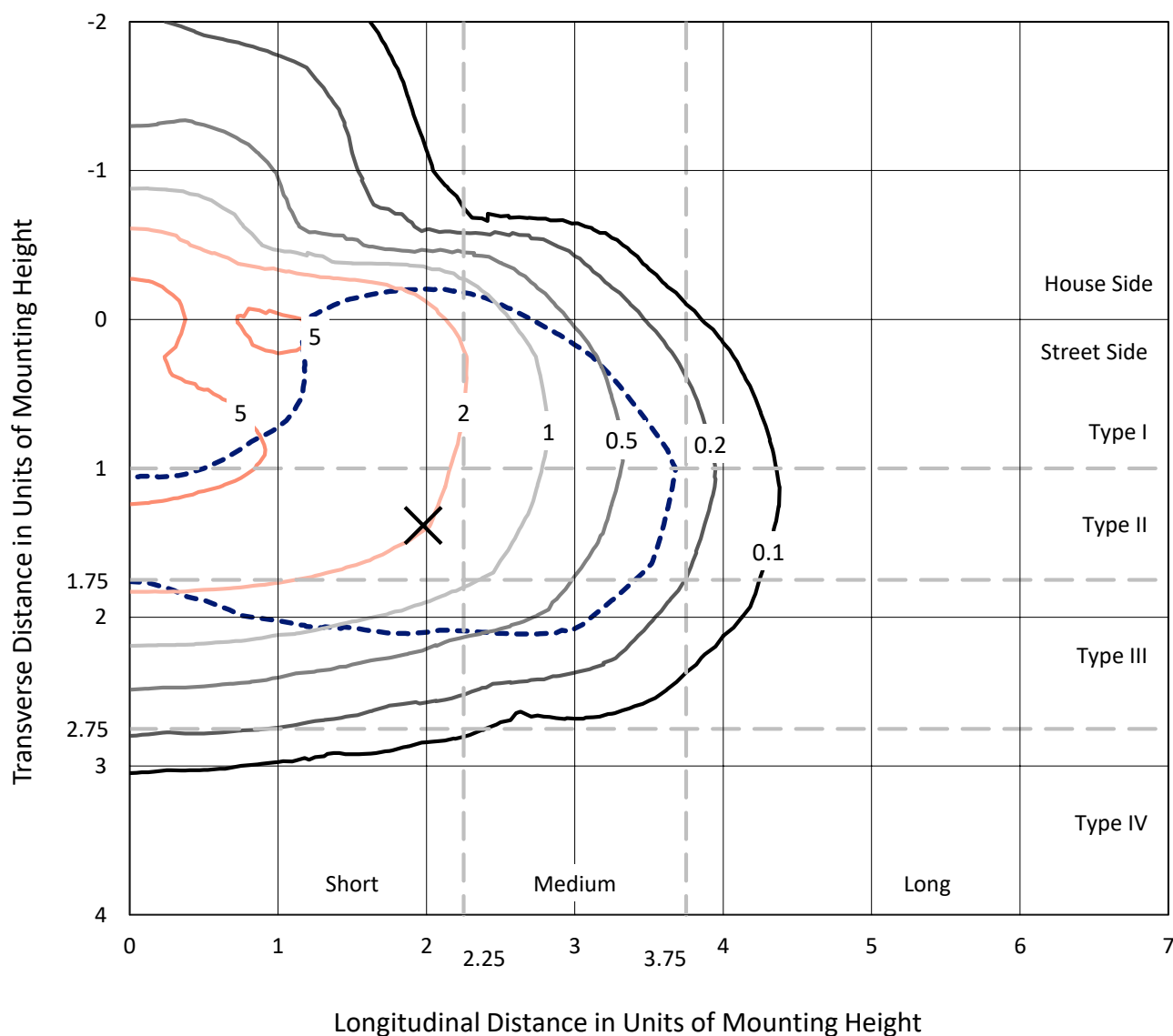
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

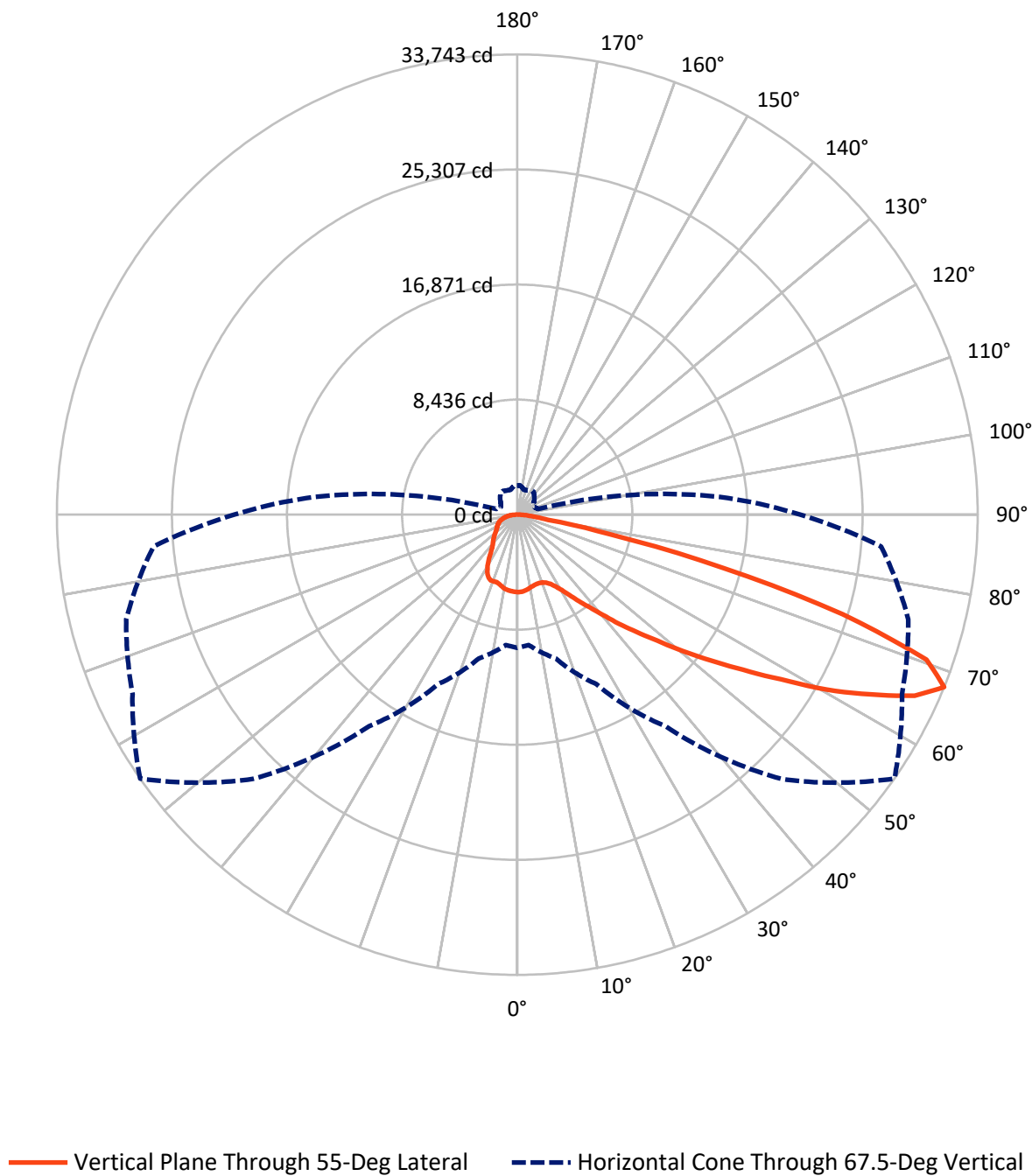


Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9947.4	0.0	9947.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	36101.0	0.0	36101.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	46048.4	0.0	46048.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.0	1.2
10°-20°	1501.1	3.3
20°-30°	2514.5	5.5
30°-40°	4134.9	9.0
40°-50°	6960.2	15.1
50°-60°	10954.9	23.8
60°-70°	13073.5	28.4
70°-80°	5614.0	12.2
80°-90°	765.4	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°	46048.4	100.0
0°-180°	46048.4	100.0

Coefficient of Utilization



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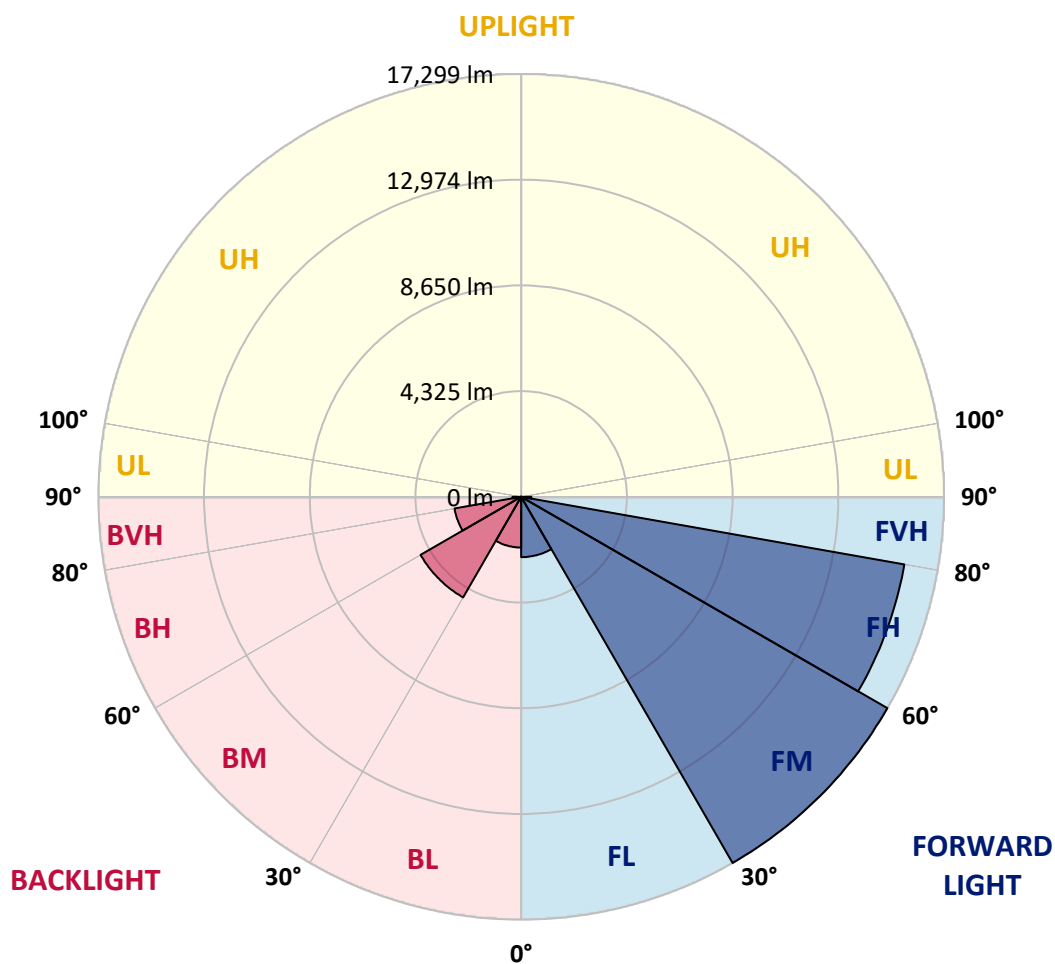
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2468.3	5.4			
FM	(30°-60°)	17299.2	37.6			
FH	(60°-80°)	15919.2	34.6			G5
FVH	(80°-90°)	414.3	0.9			G3/500
BL	(0°-30°)	2077.2	4.5	B3/2500		
BM	(30°-60°)	4750.8	10.3	B3/5000		
BH	(60°-80°)	2768.3	6.0	B4/5000		G4/5000
BVH	(80°-90°)	351.1	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°	5678.3	5678.3	5678.3	5678.3	5678.3	5678.3	5678.3	5678.3	5678.3	5678.3	5678.3
2.5°	5629.4	5631.6	5636.0	5653.8	5669.4	5664.9	5667.2	5658.2	5656.1	5642.7	5656.1
5°	5558.1	5564.8	5567.1	5595.9	5613.7	5618.2	5611.5	5600.4	5587.1	5573.8	5580.4
7.5°	5395.8	5413.6	5415.9	5455.9	5484.9	5522.6	5524.8	5527.0	5520.4	5511.5	5524.8
10°	5293.5	5298.0	5295.7	5324.6	5346.8	5389.1	5413.6	5455.9	5473.7	5478.2	5487.0
12.5°	5286.8	5282.3	5275.7	5275.7	5269.0	5286.8	5331.3	5391.4	5433.6	5447.0	5458.0
15°	5358.0	5355.8	5333.5	5300.1	5257.9	5244.6	5282.3	5349.2	5404.7	5433.6	5444.7
17.5°	5518.1	5504.8	5469.2	5393.6	5302.4	5266.9	5271.2	5326.8	5391.4	5429.2	5440.2
20°	5811.7	5811.7	5736.1	5593.7	5431.4	5346.8	5306.8	5340.1	5402.5	5453.6	5469.2
22.5°	6318.8	6323.3	6196.5	5963.0	5689.3	5509.3	5409.1	5402.5	5475.8	5533.7	5551.5
25°	7037.3	7019.5	6841.5	6507.9	6092.0	5793.9	5620.4	5580.4	5642.7	5707.1	5729.4
27.5°	7873.6	7809.0	7597.7	7195.2	6656.9	6221.0	5954.1	5889.6	5949.6	6023.0	6045.2
30°	8700.9	8634.2	8382.8	7942.5	7344.2	6792.5	6410.0	6305.5	6390.0	6494.6	6507.9
32.5°	9528.3	9528.3	9248.0	8734.3	8082.6	7475.4	7017.1	6892.6	7032.8	7159.5	7188.5
35°	10518.1	10522.4	10251.1	9632.9	8932.2	8289.4	7784.5	7693.4	7904.7	7993.6	8062.6
37.5°	11734.7	11759.1	11410.0	10662.6	9895.3	9219.1	8618.6	8494.1	8705.3	8947.8	9170.2
40°	13049.2	13080.3	12695.5	11774.7	11007.4	10300.1	9650.7	9426.1	9777.4	10240.0	10526.9
42.5°	14303.5	14463.7	14092.3	13144.8	12319.6	11587.8	10929.5	10602.5	11043.0	11741.3	11990.4
45°	16116.3	16231.9	15584.6	14726.2	13949.9	13131.5	12259.6	11914.8	12531.0	13411.7	13462.8
47.5°	17323.9	17237.2	16908.1	16374.2	15882.7	15117.5	13805.4	13427.2	14245.8	15282.2	14995.3
50°	17966.7	17993.5	17948.9	17980.0	17997.8	17517.4	15700.3	15182.1	16158.5	17410.7	16750.1
52.5°	18567.3	18389.3	18536.2	19265.6	20146.5	19968.4	17762.2	17221.7	18209.1	19772.7	18605.1
55°	18553.9	18282.6	18760.8	20048.5	21959.2	22163.7	20077.5	19454.7	20377.7	22306.1	20571.3
57.5°	17897.8	17911.1	18647.3	20333.2	23222.4	24227.7	22764.2	21830.1	22677.6	24872.8	22366.1
60°	16994.7	17117.1	18178.0	20286.5	24234.4	25920.3	26060.4	24390.1	24930.6	27205.9	23851.9
62.5°	15538.0	15667.0	17130.4	19801.7	24081.0	27550.6	29040.8	27294.8	27286.0	28620.5	24287.8
65°	13240.4	13202.6	14739.5	17989.0	22793.1	28756.2	32001.2	29805.9	29060.8	28642.7	23411.4
67.5°	9764.1	9595.0	10913.9	13700.8	18945.3	27406.0	33742.6	31113.8	29665.7	26758.8	20733.6
70°	5066.7	4897.5	5965.2	8000.3	12459.7	21389.6	31814.3	30437.6	28329.1	22430.6	16243.0
72.5°	2166.3	2137.4	2571.1	3509.7	6027.5	12337.4	24946.2	26345.1	24307.8	16712.3	11167.5
75°	1456.9	1447.9	1610.3	1912.8	2711.3	5006.6	15611.4	18700.7	17784.3	10362.3	6281.0
77.5°	1143.2	1132.2	1227.7	1374.5	1757.1	1975.1	6928.2	10039.9	9292.5	4510.6	2749.1
80°	894.1	885.2	945.3	1025.3	1263.4	1245.5	2279.8	3994.6	3091.6	1728.2	1336.7
82.5°	705.0	705.0	754.0	756.2	896.4	849.6	1190.0	1759.3	1543.7	1007.6	818.5
85°	644.9	644.9	696.2	565.0	585.0	536.0	738.4	1043.1	978.6	413.6	355.8
87.5°	324.7	315.9	585.0	500.4	318.1	284.7	360.3	504.9	542.7	229.1	178.0
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°	5678.3	5678.3	5678.3	5678.3	5678.3	5678.3	5678.3	5678.3	5678.3	5678.3
2.5°	5651.6	5649.4	5653.8	5656.1	5673.9	5698.3	5709.5	5724.9	5733.9	5729.4
5°	5584.9	5589.2	5607.0	5620.4	5651.6	5691.7	5713.8	5731.6	5747.2	5740.6
7.5°	5529.3	5540.4	5567.1	5578.2	5595.9	5607.0	5604.9	5611.5	5624.8	5609.4
10°	5498.2	5511.5	5531.5	5516.0	5473.7	5413.6	5358.0	5329.1	5338.0	5326.8
12.5°	5467.0	5484.9	5469.2	5395.8	5277.9	5200.0	5157.8	5162.3	5182.2	5186.7
15°	5449.2	5455.9	5389.1	5251.2	5131.2	5120.0	5142.3	5137.8	5140.0	5140.0
17.5°	5449.2	5431.4	5306.8	5168.9	5117.8	5097.8	5028.7	4942.2	4904.2	4890.9
20°	5478.2	5431.4	5280.2	5188.9	5077.8	4906.5	4724.2	4564.0	4492.8	4472.7
22.5°	5564.8	5484.9	5355.8	5197.9	4882.0	4595.1	4306.0	4114.7	3985.7	3963.5
25°	5740.6	5651.6	5504.8	5080.0	4570.7	4161.3	3832.3	3618.6	3489.7	3471.9
27.5°	6047.5	5989.7	5584.9	4819.8	4157.0	3718.7	3414.2	3249.5	3153.9	3147.2
30°	6510.1	6481.2	5544.8	4435.0	3647.6	3289.6	3142.8	3047.1	2975.9	2973.7
32.5°	7248.5	7015.0	5413.6	3965.7	3182.7	2984.9	2924.8	2867.0	2811.3	2811.3
35°	8198.3	7446.4	5164.4	3463.0	2900.3	2815.8	2740.1	2649.0	2575.6	2571.1
37.5°	9314.8	7713.3	4717.5	3058.1	2766.9	2702.3	2591.2	2455.5	2326.4	2304.3
40°	10442.5	7793.5	4088.1	2809.0	2682.4	2588.9	2453.2	2293.2	2168.6	2161.9
42.5°	11476.7	7640.0	3420.8	2637.8	2597.8	2473.3	2330.9	2188.6	2090.6	2088.5
45°	12344.1	7241.8	2860.3	2475.5	2508.8	2368.7	2242.0	2126.3	2050.7	2035.1
47.5°	13160.4	6679.1	2466.6	2304.3	2419.9	2311.0	2204.1	2095.1	2021.8	2010.6
50°	14107.8	6072.0	2190.7	2137.4	2342.1	2290.8	2235.2	2121.9	1999.6	1986.3
52.5°	15255.6	5547.1	1975.1	1990.6	2282.0	2317.6	2315.3	2197.4	1983.9	1966.1
55°	16536.6	4964.3	1812.7	1870.5	2257.6	2366.5	2335.4	2268.7	1997.3	1970.6
57.5°	17797.7	4283.7	1699.3	1779.3	2221.9	2362.0	2239.7	2144.1	2028.4	1990.6
60°	18743.0	3369.5	1612.5	1699.3	2144.1	2288.7	2135.2	2008.4	2021.8	1992.9
62.5°	18805.2	2604.5	1508.0	1630.2	2026.2	2215.2	2066.2	1948.3	2050.7	2024.0
65°	17699.9	1968.5	1408.0	1547.9	1899.5	2168.6	1999.6	1915.0	2110.7	2081.8
67.5°	14901.9	1583.6	1323.3	1463.5	1772.6	2070.7	1939.5	1883.8	2164.1	2113.0
70°	10758.2	1350.1	1241.0	1361.2	1659.2	1959.4	1886.1	1828.2	2019.5	1939.5
72.5°	6623.6	1169.9	1147.7	1225.6	1572.5	1843.9	1806.0	1723.7	1819.3	1754.8
75°	3307.3	1014.3	1043.1	1092.0	1450.2	1712.6	1672.5	1590.3	1603.6	1590.3
77.5°	1583.6	867.4	920.8	958.6	1292.2	1563.6	1521.3	1436.8	1421.3	1423.4
80°	1003.1	725.1	776.2	802.9	1154.4	1390.1	1347.8	1263.4	1441.2	1336.7
82.5°	627.2	589.5	602.8	651.7	1005.3	1209.9	1154.4	1078.7	1298.9	1027.6
85°	347.0	411.5	429.3	471.6	774.0	1012.0	956.3	860.8	771.8	758.5
87.5°	206.8	244.6	251.3	282.4	520.4	731.7	647.3	613.8	509.3	507.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)