

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: P192384

Luminaire Tested: **GLEON-AF-06-LED-E1-T4W-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-T4W-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38781 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 382
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

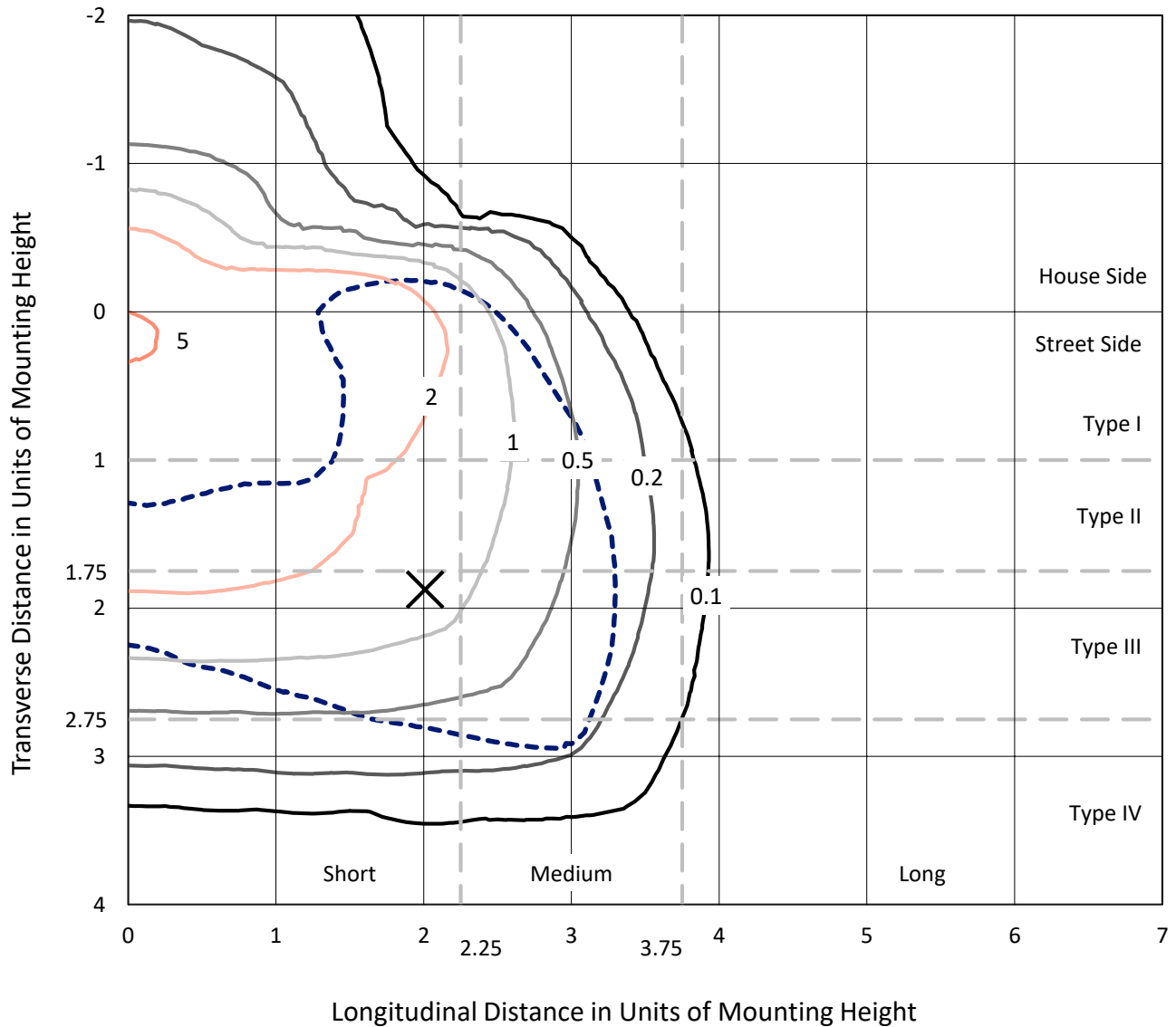


REPORT NUMBER: P192384

CATALOG NUMBER: GLEON-AF-06-LED-E1-T4W-7050-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

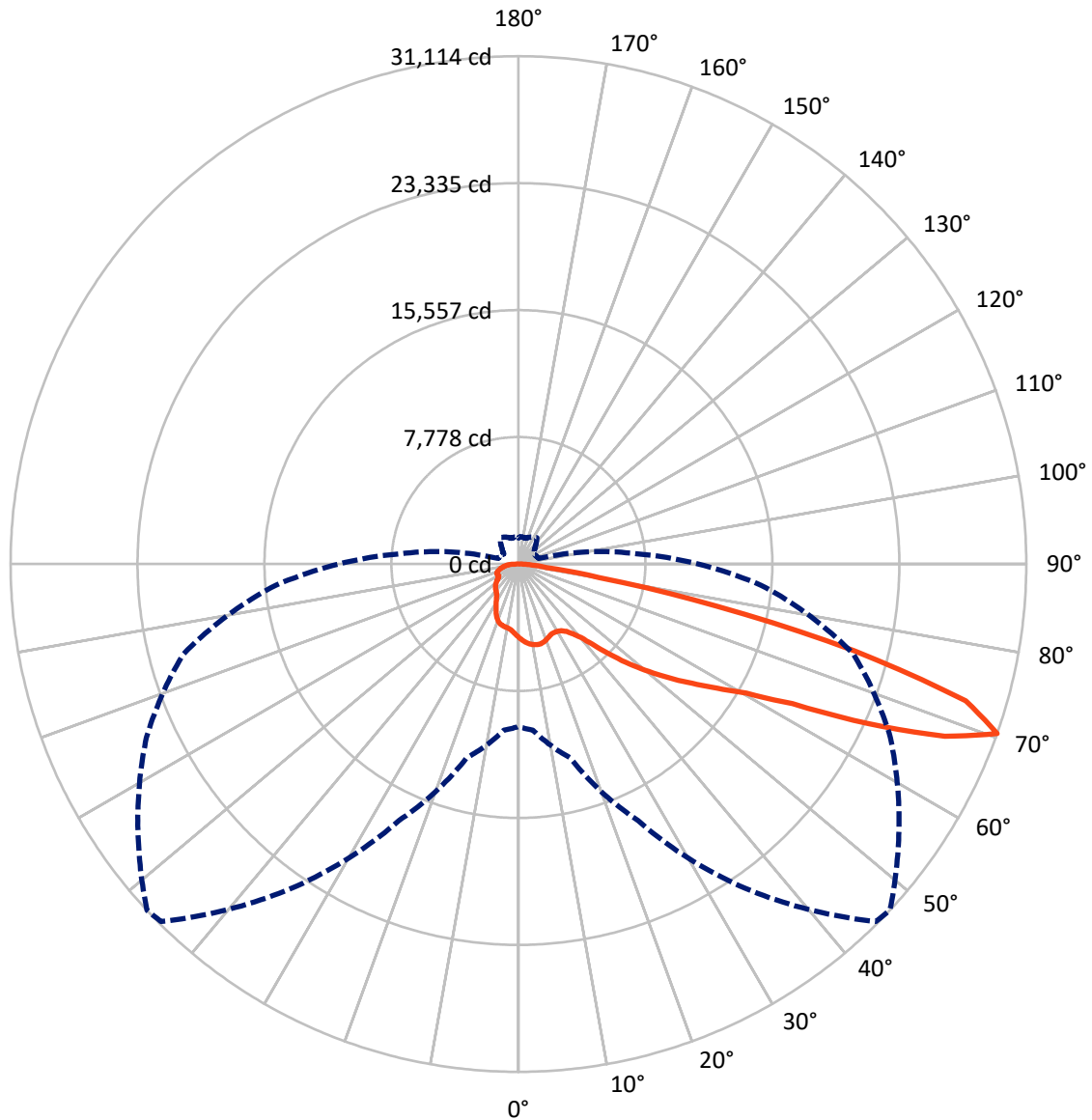


Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P192384

CATALOG NUMBER: GLEON-AF-06-LED-E1-T4W-7050-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P192384

CATALOG NUMBER: GLEON-AF-06-LED-E1-T4W-7050-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8090.5	0.0	8090.5
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	30690.5	0.0	30690.5
	% Fixture	79.1	0.0	79.1
Total	Lumens	38781.0	0.0	38781.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.2	1.1
10°-20°	1264.9	3.3
20°-30°	1867.9	4.8
30°-40°	2715.0	7.0
40°-50°	4886.0	12.6
50°-60°	8464.5	21.8
60°-70°	12081.3	31.2
70°-80°	6201.9	16.0
80°-90°	868.3	2.2
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°	38781.0	100.0
0°-180°	38781.0	100.0



REPORT NUMBER: P192384

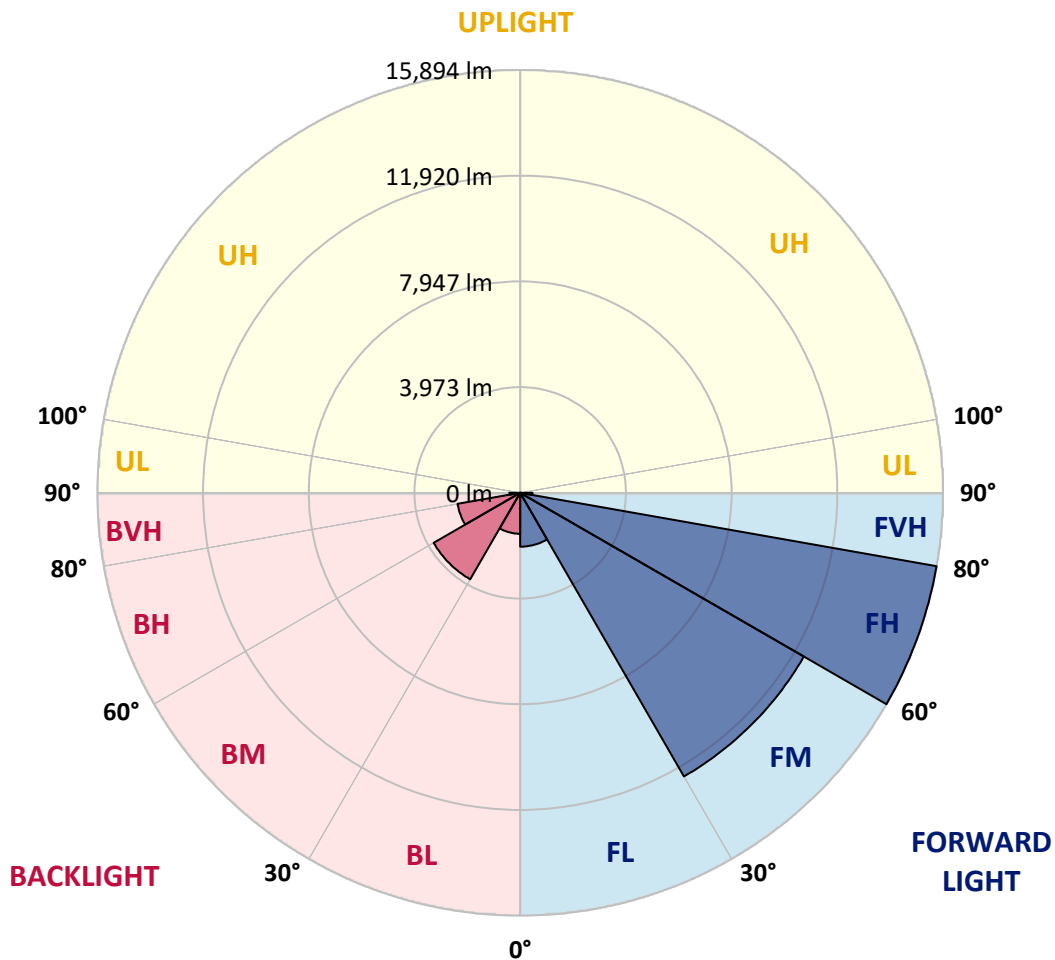
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2023.5	5.2			
FM	(30°-60°)	12310.2	31.7			
FH	(60°-80°)	15893.5	41.0			G5
FVH	(80°-90°)	463.3	1.2			G3/500
BL	(0°-30°)	1540.5	4.0	B3/2500		
BM	(30°-60°)	3755.4	9.7	B3/5000		
BH	(60°-80°)	2389.7	6.2	B3/2500		G3/2500
BVH	(80°-90°)	405.0	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P192384

CATALOG NUMBER: GLEON-AF-06-LED-E1-T4W-7050-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4499.8	4499.8	4499.8	4499.8	4499.8	4499.8	4499.8	4499.8	4499.8	4499.8	4499.8
2.5°	4763.9	4754.5	4750.7	4743.2	4733.8	4686.6	4677.2	4643.2	4596.0	4547.0	4496.0
5°	5077.1	5075.2	5054.5	5016.8	4956.4	4852.6	4828.1	4745.1	4633.8	4526.2	4418.7
7.5°	5352.6	5335.6	5296.0	5220.5	5114.9	4973.4	4939.4	4824.3	4671.5	4524.3	4379.1
10°	5554.5	5545.0	5458.3	5354.5	5216.8	5060.2	5020.5	4892.2	4724.3	4537.5	4356.4
12.5°	5669.6	5650.7	5550.7	5426.2	5262.0	5109.2	5069.6	4939.4	4750.7	4537.5	4324.3
15°	5662.0	5648.8	5548.8	5413.0	5246.9	5113.0	5077.1	4947.0	4745.1	4518.7	4282.8
17.5°	5511.1	5516.7	5431.8	5297.9	5162.0	5060.2	5028.1	4907.3	4707.3	4480.9	4233.8
20°	5246.9	5273.4	5216.8	5097.9	5022.4	4952.6	4931.9	4830.0	4648.9	4426.2	4180.9
22.5°	4982.8	5007.3	4984.7	4884.7	4873.4	4831.9	4820.5	4747.0	4597.9	4392.3	4148.9
25°	4788.5	4811.1	4807.3	4720.5	4754.5	4752.6	4743.2	4707.3	4586.6	4392.3	4154.5
27.5°	4735.6	4743.2	4735.6	4656.4	4703.6	4741.3	4733.8	4728.1	4620.6	4447.0	4226.2
30°	4916.8	4905.4	4847.0	4686.6	4730.0	4782.8	4775.3	4779.0	4722.4	4590.4	4386.6
32.5°	5639.4	5588.4	5403.5	4952.6	4837.5	4865.8	4869.6	4931.9	4941.3	4811.1	4635.6
35°	6720.5	6663.9	6424.2	5665.8	5171.5	5073.4	5073.4	5167.7	5224.3	5128.1	5022.4
37.5°	7865.7	7803.4	7675.1	6654.4	5873.3	5433.7	5424.3	5490.3	5571.5	5594.1	5620.5
40°	9167.5	9101.5	9137.3	7763.8	6852.5	6058.2	5924.3	5877.1	6096.0	6241.2	6452.5
42.5°	10592.0	10561.8	10575.0	8999.6	7967.6	6992.1	6801.6	6558.2	6822.3	7080.8	7524.2
45°	11910.8	11937.2	11924.0	10322.2	9209.0	8131.7	7929.8	7458.2	7716.6	8160.0	8882.6
47.5°	13065.5	12956.0	13125.8	11767.4	10599.5	9407.1	9158.1	8526.0	8788.3	9335.4	10558.0
50°	14467.3	14452.2	14203.2	13695.6	12280.6	10688.2	10361.8	9629.8	10037.3	10797.6	12669.3
52.5°	15940.8	15667.2	15438.9	15195.6	14063.5	12001.4	11601.4	10729.7	11505.2	12461.7	15242.7
55°	16242.7	16120.0	16403.1	16812.5	15782.3	13365.5	12899.4	12108.9	13157.9	14363.5	18210.5
57.5°	16887.9	16886.1	17470.9	18201.1	17552.1	14812.6	14342.8	13774.9	15016.3	16542.7	21361.3
60°	17323.8	17446.4	18533.2	19950.1	19289.7	16484.2	16052.1	15697.4	17129.4	18978.4	24297.1
62.5°	17552.1	17718.1	19201.0	20659.5	21746.2	19267.1	18835.0	18323.7	19925.5	21650.0	26014.0
65°	16603.0	16929.4	19097.3	21272.7	23897.1	23778.2	23583.9	22685.8	23421.6	23761.2	25393.2
67.5°	13976.7	14310.7	16835.1	20701.0	25432.9	28129.0	28170.5	26636.6	25572.5	23942.3	21350.0
70°	9958.1	10220.3	12308.9	17355.8	24263.1	30972.2	31113.7	28457.2	25144.2	21233.0	14916.3
72.5°	4728.1	4888.5	6865.7	11295.7	19253.9	28378.0	28651.6	26132.8	21380.2	15720.1	8137.4
75°	1737.7	1786.7	2320.7	4805.5	11167.4	20927.4	21250.0	18733.1	14173.0	7826.1	3099.9
77.5°	1041.5	1073.5	1301.8	2028.2	4392.3	11961.7	12439.1	10188.2	6194.1	2913.1	1524.5
80°	728.3	750.9	933.9	1262.2	2075.4	4558.3	4982.8	4158.3	2467.8	1843.3	1109.4
82.5°	492.4	503.8	656.6	852.8	1379.2	1628.2	1756.5	1849.0	1664.1	1371.6	703.7
85°	322.6	333.9	445.3	562.2	877.3	841.5	860.3	1088.6	1215.0	932.0	390.5
87.5°	184.9	192.4	267.9	300.0	430.2	356.6	360.4	573.6	777.3	628.3	237.7
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: P192384

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4499.8	4499.8	4499.8	4499.8	4499.8	4499.8	4499.8	4499.8	4499.8	4499.8	4499.8
2.5°	4482.8	4458.3	4403.6	4369.6	4337.5	4330.0	4316.8	4314.9	4313.0	4313.0	4307.4
5°	4382.8	4341.3	4256.4	4209.2	4169.6	4165.9	4164.0	4173.4	4177.2	4180.9	4175.3
7.5°	4318.7	4262.1	4156.4	4088.5	4041.3	4030.0	4048.9	4092.3	4120.6	4131.9	4126.2
10°	4279.1	4209.2	4086.6	4013.0	3973.4	3967.8	3992.3	4043.2	4101.7	4124.3	4122.5
12.5°	4233.8	4154.5	4024.4	3947.0	3924.4	3935.7	3967.8	4014.9	4075.3	4111.1	4113.0
15°	4188.5	4096.0	3962.1	3894.2	3884.7	3899.8	3930.0	3965.9	4013.0	4048.9	4052.7
17.5°	4133.8	4037.6	3903.6	3833.8	3826.2	3833.8	3835.7	3854.5	3884.7	3918.7	3928.1
20°	4075.3	3977.2	3837.6	3767.8	3733.8	3703.6	3669.7	3673.4	3682.9	3716.8	3724.4
22.5°	4033.8	3935.7	3786.6	3690.4	3599.8	3509.3	3441.4	3431.9	3435.7	3464.0	3473.4
25°	4037.6	3933.8	3773.4	3607.4	3409.3	3264.0	3173.4	3158.4	3156.5	3177.2	3190.4
27.5°	4111.1	4007.4	3822.5	3522.5	3201.7	2986.7	2890.4	2879.1	2864.0	2869.7	2884.8
30°	4275.3	4179.1	3941.3	3435.7	2977.2	2715.0	2615.0	2603.7	2582.9	2573.5	2584.8
32.5°	4543.2	4464.0	4114.9	3352.7	2752.7	2482.9	2381.0	2356.5	2343.3	2332.0	2341.4
35°	4988.5	4954.5	4347.0	3262.1	2554.6	2303.7	2211.2	2173.5	2154.6	2175.4	2190.5
37.5°	5686.5	5705.4	4650.7	3120.6	2401.8	2184.8	2107.5	2064.1	2035.8	2052.7	2069.7
40°	6675.2	6688.4	4986.6	2920.6	2269.7	2115.0	2032.0	1992.4	1952.7	1922.6	1920.7
42.5°	7973.2	7839.3	5316.7	2703.7	2116.9	2071.6	1979.2	1930.1	1869.7	1786.7	1769.7
45°	9512.8	9043.0	5567.7	2454.6	1945.2	2018.8	1920.7	1852.7	1758.4	1667.9	1658.4
47.5°	11286.3	10335.4	5690.3	2196.1	1784.8	1941.4	1849.0	1741.4	1622.6	1577.3	1571.6
50°	13452.2	11869.3	5748.8	1945.2	1645.2	1839.5	1745.2	1618.8	1518.8	1509.4	1503.7
52.5°	15918.2	13714.5	5767.7	1739.5	1530.1	1707.5	1660.3	1537.7	1458.4	1466.0	1466.0
55°	18499.2	15620.1	5511.1	1590.5	1424.5	1571.6	1603.7	1505.6	1439.6	1469.7	1481.1
57.5°	20868.9	17308.7	4703.6	1475.4	1324.5	1467.9	1582.9	1535.8	1490.5	1613.1	1620.7
60°	22687.7	18306.7	3513.1	1371.6	1250.9	1432.0	1637.7	1650.9	1662.2	1954.6	1994.3
62.5°	23068.8	17974.7	2415.0	1290.5	1216.9	1462.2	1737.7	1739.5	1726.3	1930.1	1954.6
65°	21319.8	15874.8	1756.5	1245.2	1188.6	1516.9	1822.6	1782.9	1696.2	1850.9	1805.6
67.5°	16931.3	11959.9	1462.2	1211.3	1147.1	1513.1	1913.1	1822.6	1679.2	1813.1	1739.5
70°	10990.1	7231.8	1301.8	1183.0	1098.1	1441.4	1966.0	1818.8	1630.1	1686.7	1599.9
72.5°	5362.0	3233.8	1194.3	1141.5	1047.1	1341.5	1964.1	1784.8	1579.2	1575.4	1528.2
75°	2098.0	1481.1	1096.2	1079.2	960.3	1228.2	1911.2	1735.8	1518.8	1458.4	1441.4
77.5°	1228.2	1056.6	971.7	986.7	856.6	1115.0	1833.9	1650.9	1435.8	1364.1	1345.2
80°	894.3	790.5	828.3	852.8	732.0	1001.8	1730.1	1547.1	1343.3	1379.2	1352.8
82.5°	573.6	509.4	671.7	696.2	609.4	886.8	1616.9	1437.7	1213.2	1101.8	1075.4
85°	292.4	322.6	500.0	530.2	469.8	728.3	1479.2	1292.4	1066.0	916.9	932.0
87.5°	164.1	220.7	318.9	356.6	332.1	560.4	1199.9	1066.0	869.8	707.5	622.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)