

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: P269759

Luminaire Tested: **GLEON-AF-10-LED-E1-T4W-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269759
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-10-LED-E1-T4W-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41068.1 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-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

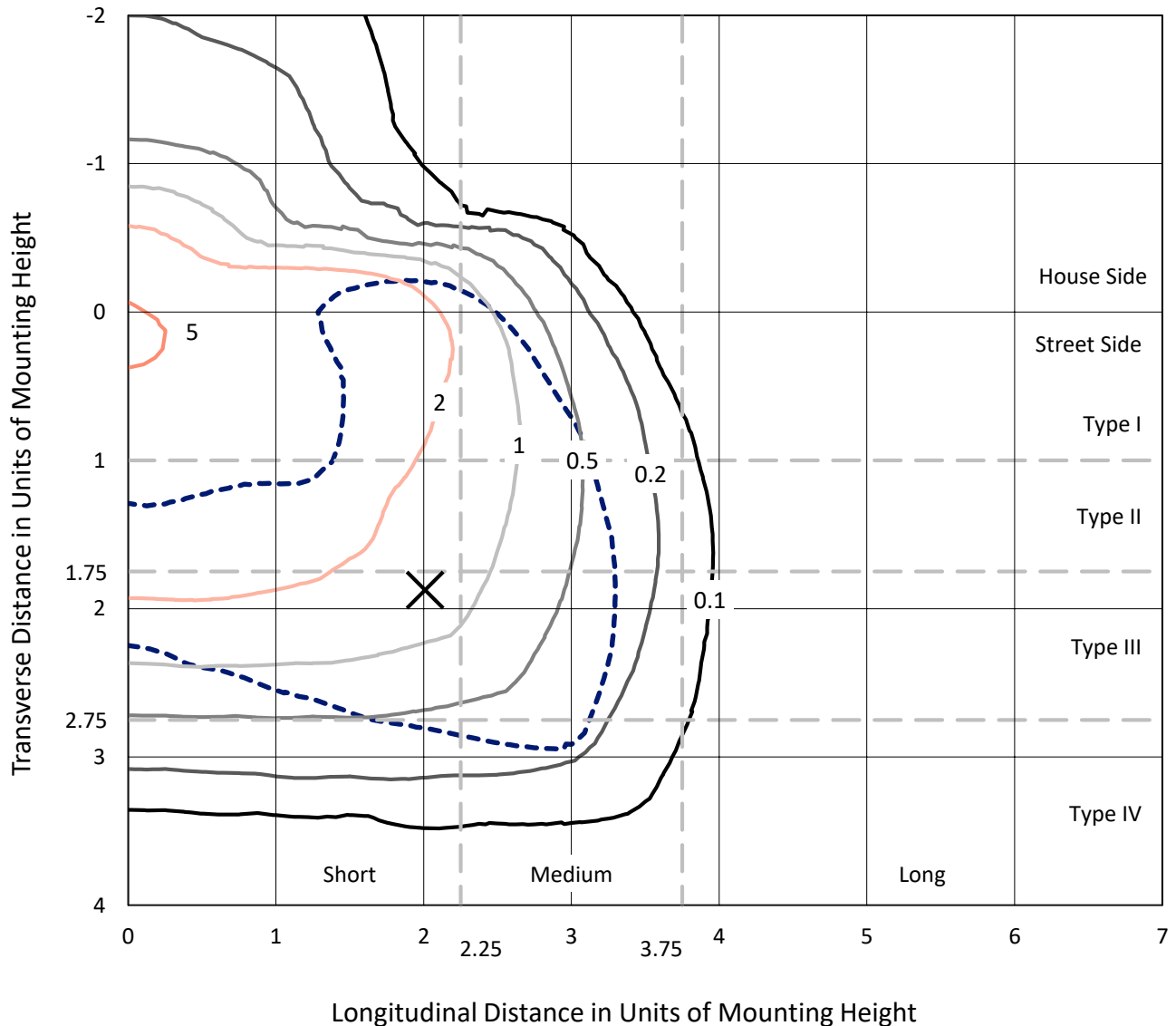


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

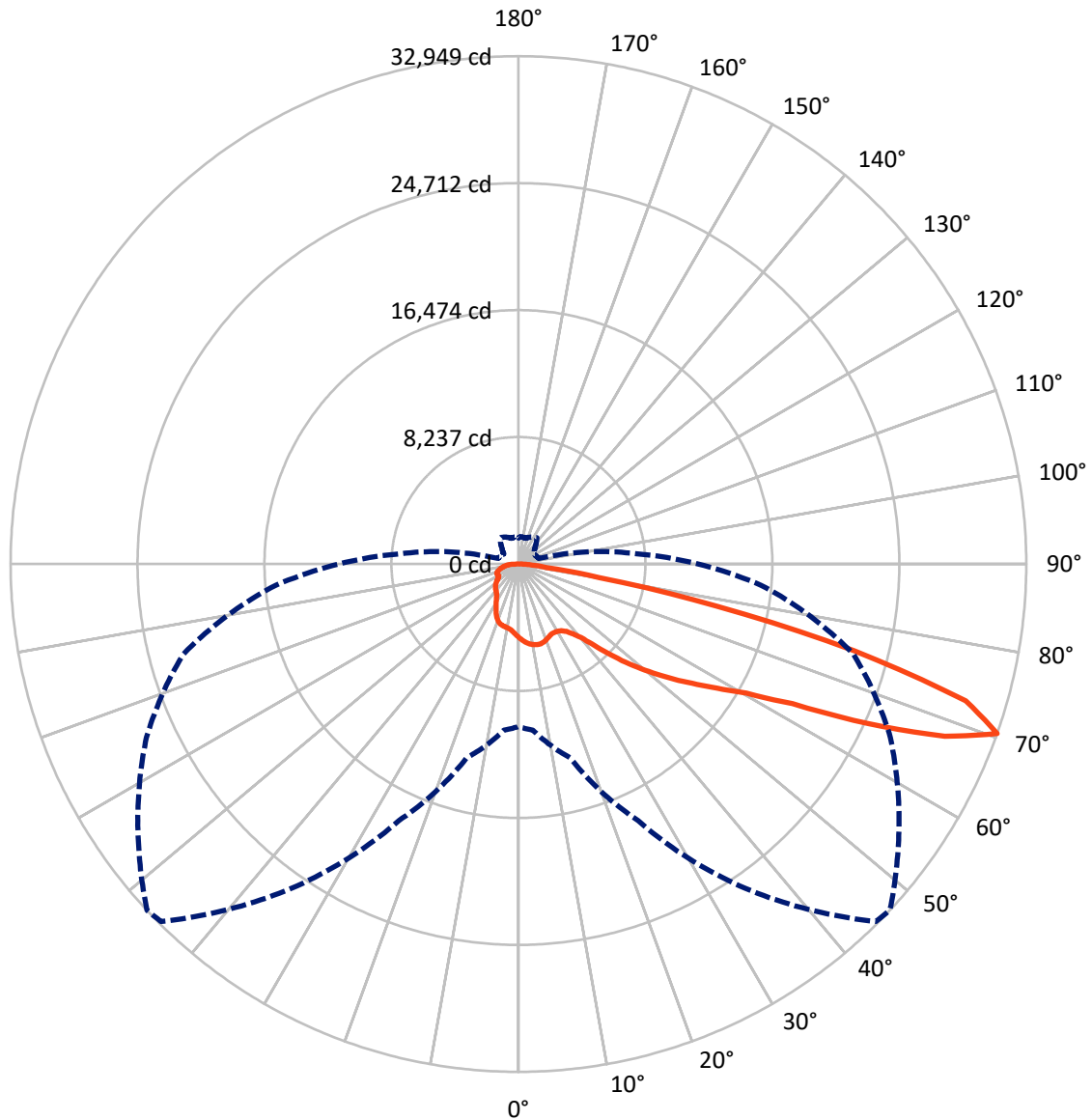


Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8567.6	0.0	8567.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	32500.5	0.0	32500.5
	% Fixture	79.1	0.0	79.1
Total	Lumens	41068.1	0.0	41068.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.6	1.1
10°-20°	1339.5	3.3
20°-30°	1978.1	4.8
30°-40°	2875.1	7.0
40°-50°	5174.2	12.6
50°-60°	8963.7	21.8
60°-70°	12793.8	31.2
70°-80°	6567.7	16.0
80°-90°	919.5	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°	41068.1	100.0
0°-180°	41068.1	100.0

Coefficient of Utilization



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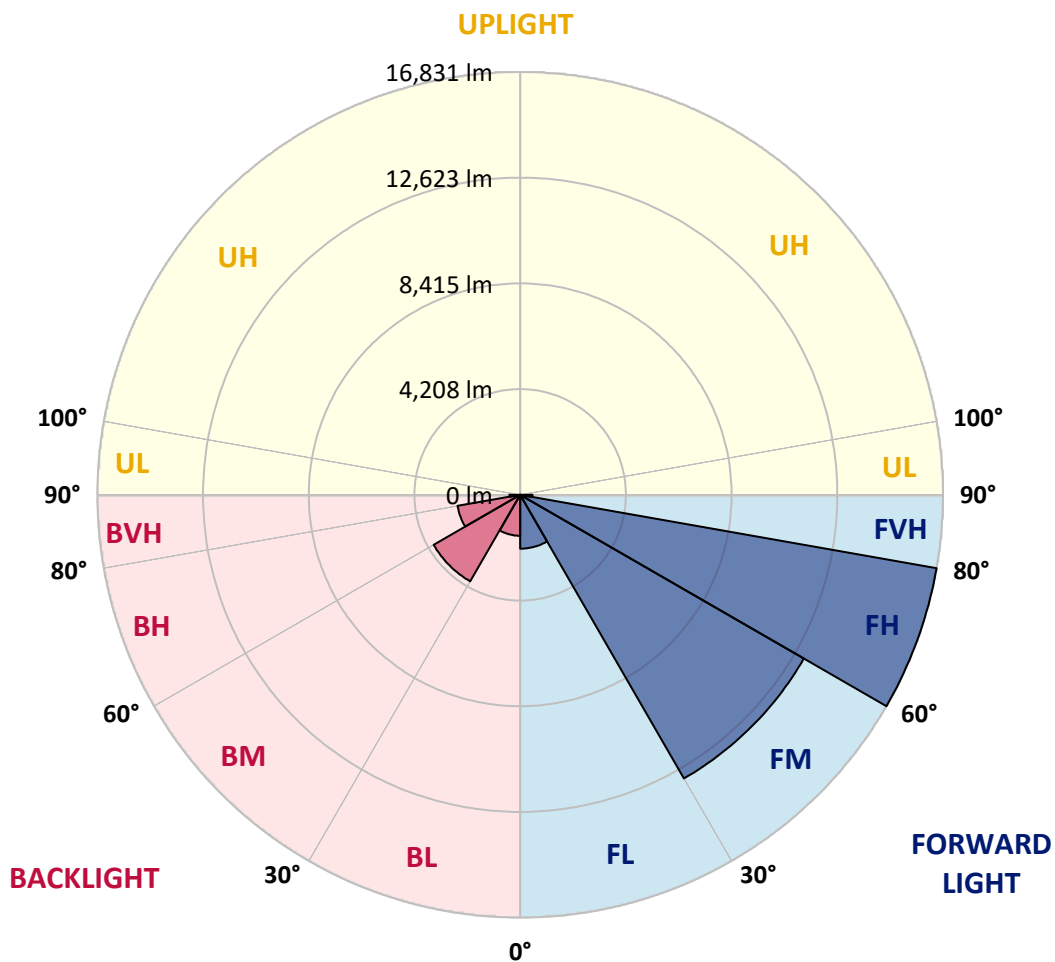
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2142.8	5.2			
FM	(30°-60°)	13036.2	31.7			
FH	(60°-80°)	16830.8	41.0			G5
FVH	(80°-90°)	490.6	1.2			G3/500
BL	(0°-30°)	1631.3	4.0	B3/2500		
BM	(30°-60°)	3976.8	9.7	B3/5000		
BH	(60°-80°)	2530.6	6.2	B4/5000		G4/5000
BVH	(80°-90°)	428.8	1.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1
2.5°	5044.9	5034.9	5030.9	5023.0	5012.9	4963.0	4953.0	4917.1	4867.0	4815.2	4761.1
5°	5376.5	5374.6	5352.6	5312.7	5248.6	5138.8	5112.9	5024.8	4907.0	4793.1	4679.4
7.5°	5668.2	5650.2	5608.3	5528.3	5416.5	5266.7	5230.7	5108.8	4947.0	4791.2	4637.3
10°	5882.0	5872.1	5780.1	5670.3	5524.3	5358.6	5316.6	5180.7	5002.9	4805.2	4613.3
12.5°	6003.9	5984.0	5878.1	5746.2	5572.4	5410.5	5368.6	5230.7	5030.9	4805.2	4579.4
15°	5995.9	5982.0	5876.1	5732.3	5556.3	5414.5	5376.5	5238.6	5024.8	4785.1	4535.5
17.5°	5836.1	5842.0	5752.1	5610.4	5466.5	5358.6	5324.7	5196.8	4985.0	4745.1	4483.5
20°	5556.3	5584.4	5524.3	5398.5	5318.7	5244.8	5222.7	5114.8	4923.0	4687.3	4427.6
22.5°	5276.6	5302.6	5278.7	5172.8	5160.9	5116.8	5104.9	5026.9	4869.1	4651.3	4393.6
25°	5070.8	5094.8	5090.9	4999.0	5034.9	5032.9	5023.0	4985.0	4857.0	4651.3	4399.5
27.5°	5015.0	5023.0	5015.0	4931.1	4980.9	5020.9	5012.9	5007.0	4893.1	4709.3	4475.4
30°	5206.8	5194.8	5132.8	4963.0	5008.9	5064.9	5056.9	5061.0	5001.0	4861.1	4645.2
32.5°	5971.9	5918.0	5722.3	5244.8	5122.9	5152.8	5156.8	5222.7	5232.6	5094.8	4909.1
35°	7116.8	7056.8	6803.1	5999.9	5476.4	5372.6	5372.6	5472.5	5532.4	5430.6	5318.7
37.5°	8329.5	8263.7	8127.8	7046.8	6219.8	5754.3	5744.2	5814.1	5900.1	5924.1	5952.0
40°	9708.3	9638.3	9676.3	8221.6	7256.7	6415.5	6273.7	6223.6	6455.5	6609.3	6833.0
42.5°	11216.6	11184.6	11198.7	9530.4	8437.5	7404.5	7202.7	6944.9	7224.7	7498.4	7968.0
45°	12613.2	12641.2	12627.2	10930.9	9752.1	8611.3	8397.5	7898.0	8171.7	8641.2	9406.5
47.5°	13836.1	13720.2	13900.0	12461.4	11224.6	9961.9	9698.2	9028.9	9306.6	9885.9	11180.8
50°	15320.6	15304.6	15040.9	14503.3	13004.9	11318.6	10972.8	10197.6	10629.3	11434.4	13416.5
52.5°	16880.9	16591.2	16349.4	16091.7	14892.9	12709.1	12285.6	11362.5	12183.7	13196.6	16141.6
55°	17200.6	17070.8	17370.4	17804.0	16713.1	14153.7	13660.2	12823.0	13933.9	15210.6	19284.5
57.5°	17883.8	17881.9	18501.3	19274.6	18587.2	15686.2	15188.6	14587.2	15901.9	17518.2	22621.1
60°	18345.5	18475.4	19626.2	21126.7	20427.4	17456.4	16998.7	16623.1	18139.7	20097.7	25730.1
62.5°	18587.2	18763.0	20333.5	21878.0	23028.7	20403.4	19945.8	19404.4	21100.6	22926.8	27548.1
65°	17582.3	17927.8	20223.5	22527.2	25306.4	25180.5	24974.8	24023.7	24802.9	25162.6	26890.9
67.5°	14801.1	15154.6	17827.9	21921.9	26932.8	29787.8	29831.9	28207.5	27080.7	25354.3	22609.1
70°	10545.4	10823.0	13034.9	18379.4	25694.0	32798.8	32948.8	30135.5	26627.1	22485.2	15796.1
72.5°	5007.0	5176.8	7270.6	11961.9	20389.4	30051.5	30341.3	27674.1	22641.2	16647.2	8617.4
75°	1840.2	1892.1	2457.6	5088.9	11826.0	22161.5	22503.3	19837.9	15008.8	8287.7	3282.6
77.5°	1102.8	1136.8	1378.5	2147.8	4651.3	12667.2	13172.7	10789.2	6559.3	3084.9	1614.3
80°	771.3	795.2	989.0	1336.7	2197.8	4827.1	5276.6	4403.5	2613.3	1952.0	1174.9
82.5°	521.5	533.5	695.3	903.1	1460.6	1724.2	1860.1	1958.0	1762.2	1452.5	745.2
85°	341.6	353.7	471.5	595.3	929.0	891.1	911.2	1152.9	1286.7	987.0	413.6
87.5°	195.8	203.7	283.8	317.7	455.5	377.6	381.6	607.3	823.1	665.4	251.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1
2.5°	4747.3	4721.2	4663.3	4627.3	4593.4	4585.4	4571.4	4569.4	4567.4	4567.4	4561.5
5°	4641.4	4597.3	4507.4	4457.5	4415.4	4411.5	4409.5	4419.5	4423.6	4427.6	4421.5
7.5°	4573.5	4513.4	4401.5	4329.7	4279.6	4267.7	4287.7	4333.7	4363.5	4375.6	4369.5
10°	4531.4	4457.5	4327.7	4249.7	4207.8	4201.7	4227.8	4281.7	4343.7	4367.6	4365.7
12.5°	4483.5	4399.5	4261.6	4179.8	4155.7	4167.7	4201.7	4251.7	4315.6	4353.5	4355.6
15°	4435.6	4337.6	4195.8	4123.8	4113.9	4129.8	4161.8	4199.8	4249.7	4287.7	4291.7
17.5°	4377.6	4275.7	4133.8	4059.9	4052.0	4059.9	4061.9	4081.9	4113.9	4149.8	4159.8
20°	4315.6	4211.8	4063.9	3989.9	3954.0	3922.0	3886.1	3890.1	3900.0	3936.1	3944.0
22.5°	4271.7	4167.7	4009.9	3908.0	3812.1	3716.3	3644.3	3634.4	3638.3	3668.3	3678.3
25°	4275.7	4165.8	3996.0	3820.1	3610.4	3456.5	3360.6	3344.6	3342.7	3364.6	3378.5
27.5°	4353.5	4243.8	4047.9	3730.2	3390.6	3162.8	3061.0	3048.8	3032.9	3039.0	3055.0
30°	4527.4	4425.5	4173.7	3638.3	3152.8	2875.0	2769.1	2757.2	2735.2	2725.3	2737.2
32.5°	4811.1	4727.2	4357.6	3550.5	2915.1	2629.3	2521.5	2495.5	2481.5	2469.5	2479.5
35°	5282.7	5246.7	4603.4	3454.5	2705.2	2439.5	2341.6	2301.6	2281.7	2303.7	2319.7
37.5°	6021.9	6041.9	4925.0	3304.7	2543.5	2313.7	2231.7	2185.8	2155.8	2173.8	2191.8
40°	7068.9	7082.9	5280.6	3092.9	2403.5	2239.7	2151.8	2109.8	2067.9	2036.0	2033.9
42.5°	8443.4	8301.5	5630.2	2863.1	2241.7	2193.8	2095.8	2044.0	1980.0	1892.1	1874.1
45°	10073.9	9576.3	5896.0	2599.3	2060.0	2137.8	2033.9	1962.0	1862.1	1766.2	1756.2
47.5°	11951.9	10944.9	6025.9	2325.6	1890.2	2056.0	1958.0	1844.1	1718.3	1670.3	1664.3
50°	14245.6	12569.3	6087.9	2060.0	1742.3	1948.1	1848.2	1714.2	1608.3	1598.4	1592.3
52.5°	16857.0	14523.3	6107.8	1842.2	1620.4	1808.2	1758.3	1628.4	1544.5	1552.5	1552.5
55°	19590.1	16541.3	5836.1	1684.3	1508.4	1664.3	1698.2	1594.4	1524.5	1556.5	1568.4
57.5°	22099.7	18329.5	4980.9	1562.4	1402.6	1554.4	1676.2	1626.3	1578.4	1708.2	1716.2
60°	24025.7	19386.4	3720.2	1452.5	1324.7	1516.5	1734.3	1748.2	1760.1	2070.0	2111.8
62.5°	24429.2	19034.7	2557.5	1366.6	1288.7	1548.4	1840.2	1842.2	1828.1	2044.0	2070.0
65°	22577.2	16811.1	1860.1	1318.6	1258.7	1606.3	1930.1	1888.1	1796.3	1960.0	1912.0
67.5°	17929.9	12665.3	1548.4	1282.7	1214.8	1602.3	2025.9	1930.1	1778.3	1920.0	1842.2
70°	11638.3	7658.3	1378.5	1252.7	1162.9	1526.5	2081.9	1926.1	1726.3	1786.2	1694.4
72.5°	5678.2	3424.6	1264.8	1208.8	1108.9	1420.6	2079.8	1890.2	1672.4	1668.3	1618.3
75°	2221.8	1568.4	1160.8	1142.9	1017.1	1300.7	2023.9	1838.1	1608.3	1544.5	1526.5
77.5°	1300.7	1118.8	1029.0	1045.0	907.1	1180.8	1942.0	1748.2	1520.6	1444.6	1424.5
80°	947.1	837.1	877.1	903.1	775.1	1060.9	1832.2	1638.4	1422.6	1460.6	1432.5
82.5°	607.3	539.4	711.3	737.2	645.3	939.1	1712.3	1522.4	1284.7	1166.8	1138.8
85°	309.6	341.6	529.6	561.4	497.5	771.3	1566.5	1368.6	1128.9	971.0	987.0
87.5°	173.8	233.7	337.7	377.6	351.6	593.4	1270.7	1128.9	921.0	749.2	659.4
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)