

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: P194004

Luminaire Tested: **GLEON-AF-06-LED-E1-T3-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194004
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-06-LED-E1-T3-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31875 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 382
Input Voltage (V): NR
Input Current (A_{in}): 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

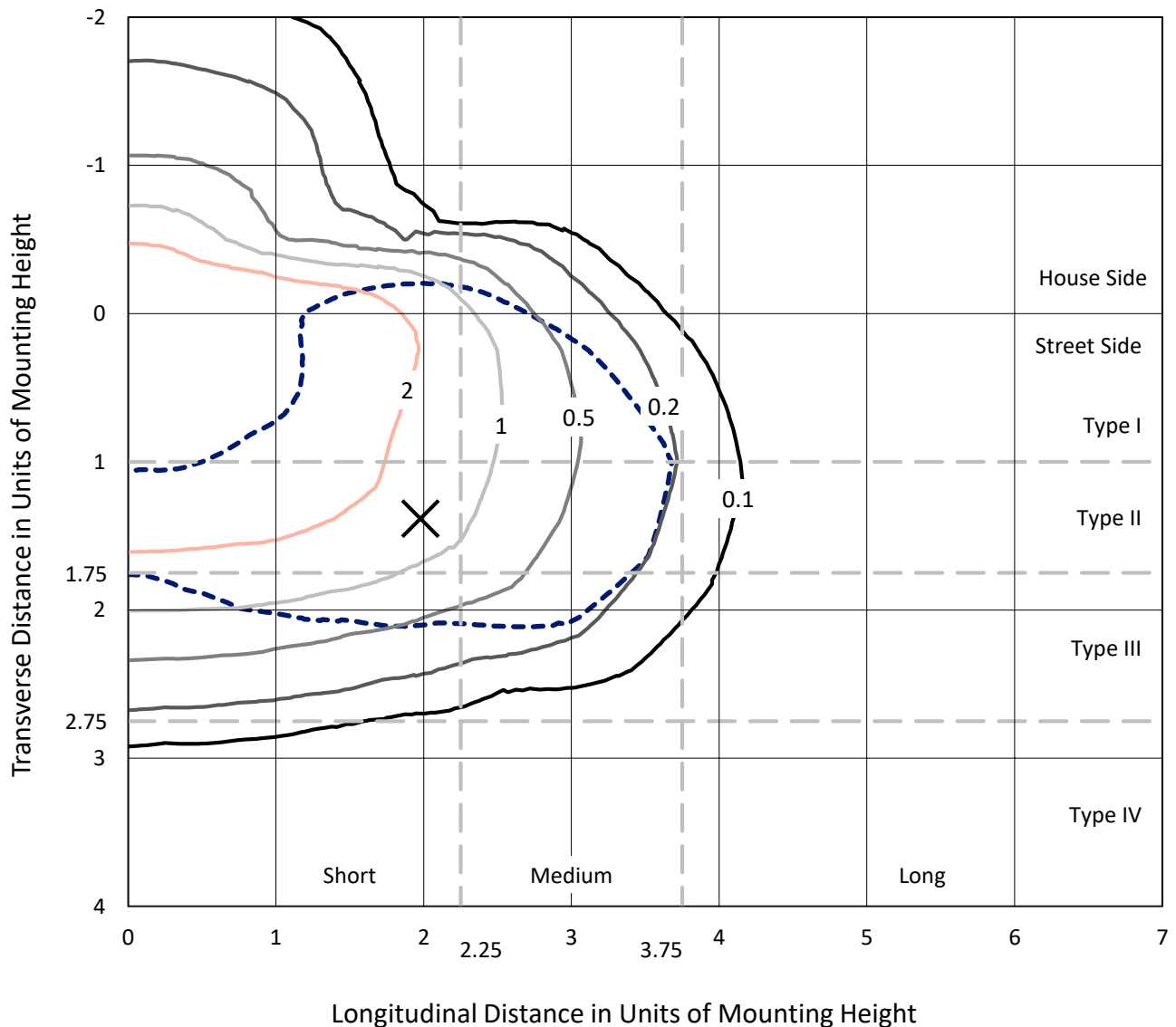


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Iso-Footcandle Lines of Horizontal Illumination

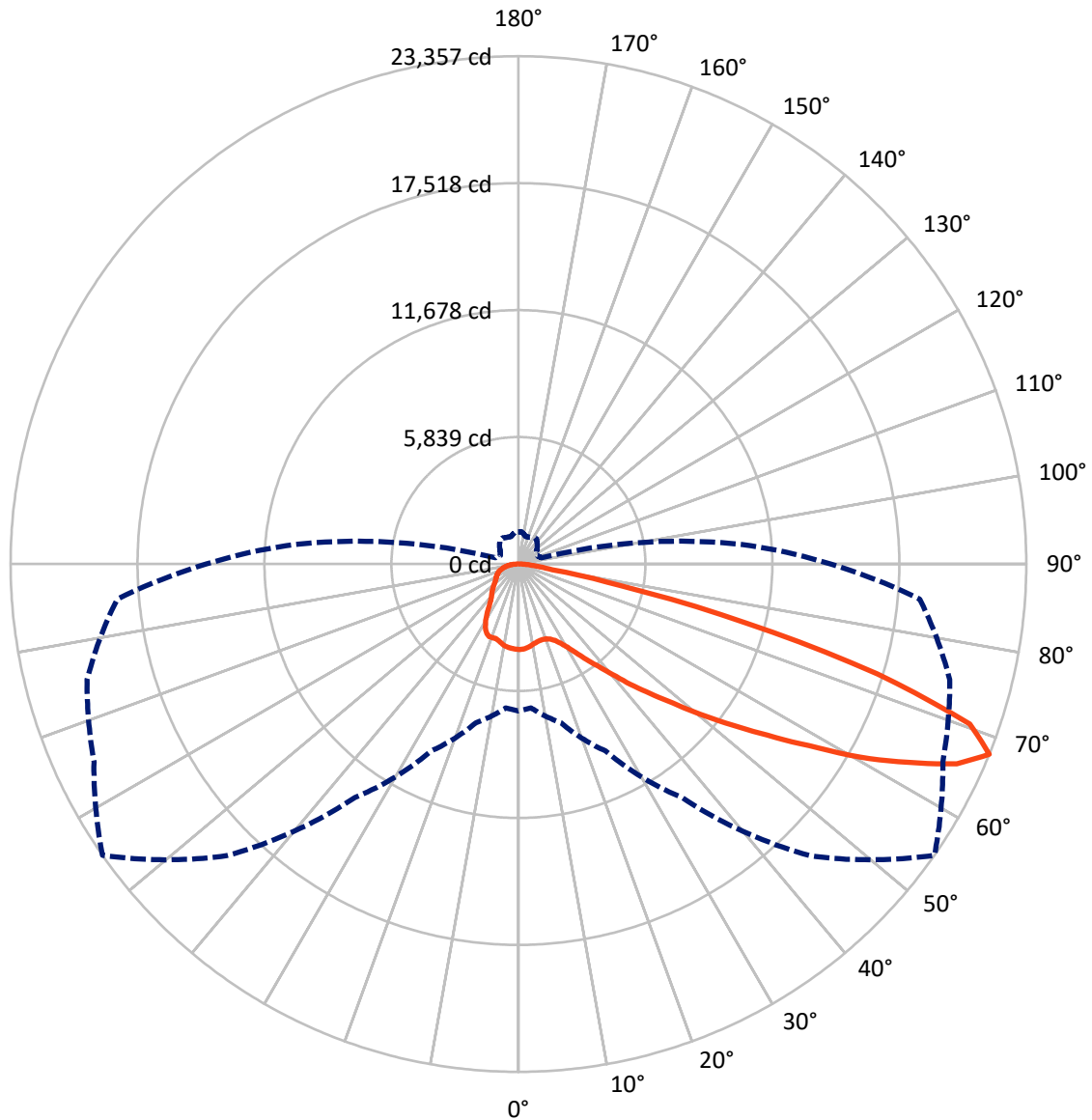
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 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	6885.7	0.0	6885.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	24989.3	0.0	24989.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	31875.0	0.0	31875.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.9	1.2
10°-20°	1039.0	3.3
20°-30°	1740.5	5.5
30°-40°	2862.2	9.0
40°-50°	4817.9	15.1
50°-60°	7583.0	23.8
60°-70°	9049.6	28.4
70°-80°	3886.0	12.2
80°-90°	529.8	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°	31875.0	100.0
0°-180°	31875.0	100.0



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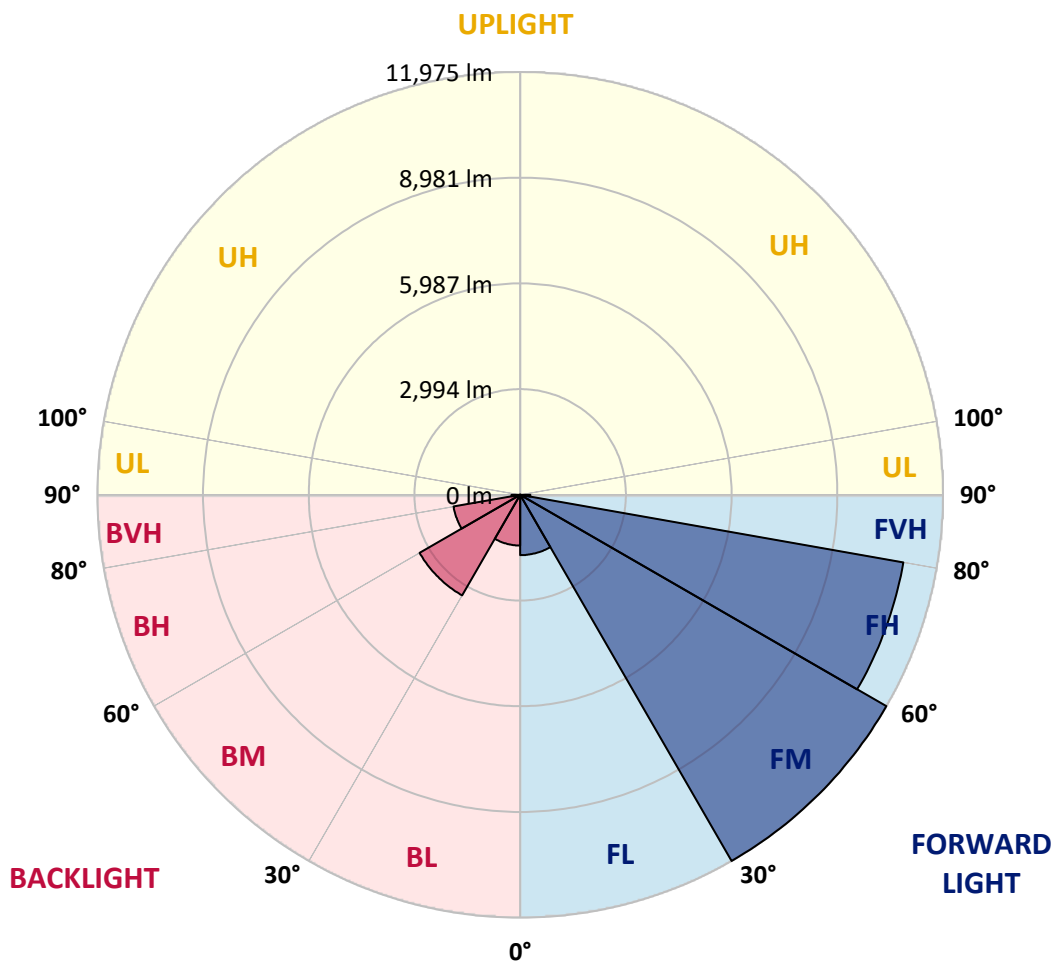
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1708.6	5.4			
FM	(30°-60°)	11974.6	37.6			
FH	(60°-80°)	11019.3	34.6			G4/12000
FVH	(80°-90°)	286.8	0.9			G3/500
BL	(0°-30°)	1437.9	4.5	B3/2500		
BM	(30°-60°)	3288.5	10.3	B3/5000		
BH	(60°-80°)	1916.3	6.0	B3/2500		G3/2500
BVH	(80°-90°)	243.0	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3930.5	3930.5	3930.5	3930.5	3930.5	3930.5	3930.5	3930.5	3930.5	3930.5	3930.5
2.5°	3896.7	3898.2	3901.3	3913.6	3924.4	3921.3	3922.8	3916.7	3915.1	3905.9	3915.1
5°	3847.4	3852.0	3853.6	3873.6	3885.9	3889.0	3884.3	3876.7	3867.4	3858.2	3862.8
7.5°	3735.0	3747.3	3748.9	3776.6	3796.6	3822.8	3824.3	3825.8	3821.2	3815.1	3824.3
10°	3664.2	3667.3	3665.7	3685.7	3701.1	3730.4	3747.3	3776.6	3788.9	3792.0	3798.1
12.5°	3659.6	3656.5	3651.9	3651.9	3647.3	3659.6	3690.4	3731.9	3761.2	3770.4	3778.1
15°	3708.8	3707.3	3691.9	3668.8	3639.6	3630.3	3656.5	3702.7	3741.2	3761.2	3768.9
17.5°	3819.7	3810.4	3785.8	3733.5	3670.3	3645.7	3648.8	3687.3	3731.9	3758.1	3765.8
20°	4022.9	4022.9	3970.6	3872.0	3759.6	3701.1	3673.4	3696.5	3739.6	3775.0	3785.8
22.5°	4373.9	4377.0	4289.3	4127.6	3938.2	3813.5	3744.2	3739.6	3790.4	3830.5	3842.8
25°	4871.2	4858.9	4735.7	4504.8	4216.9	4010.6	3890.5	3862.8	3905.9	3950.6	3965.9
27.5°	5450.1	5405.4	5259.2	4980.5	4607.9	4306.2	4121.4	4076.8	4118.4	4169.2	4184.6
30°	6022.8	5976.6	5802.7	5497.8	5083.7	4701.9	4437.1	4364.7	4423.2	4495.6	4504.8
32.5°	6595.5	6595.5	6401.6	6045.9	5594.8	5174.5	4857.4	4771.1	4868.1	4955.9	4975.9
35°	7280.7	7283.7	7095.9	6667.9	6182.9	5738.0	5388.5	5325.4	5471.7	5533.2	5581.0
37.5°	8122.8	8139.7	7898.0	7380.7	6849.6	6381.5	5965.9	5879.6	6025.9	6193.7	6347.7
40°	9032.7	9054.2	8787.9	8150.5	7619.4	7129.8	6680.2	6524.7	6768.0	7088.2	7286.8
42.5°	9901.0	10011.9	9754.7	9098.9	8527.7	8021.2	7565.5	7339.2	7644.0	8127.4	8299.9
45°	11155.8	11235.8	10787.8	10193.5	9656.2	9089.7	8486.1	8247.5	8674.0	9283.6	9319.0
47.5°	11991.8	11931.7	11703.9	11334.4	10994.1	10464.5	9556.1	9294.4	9861.0	10578.4	10379.8
50°	12436.7	12455.2	12424.4	12445.9	12458.2	12125.7	10867.9	10509.1	11185.0	12051.8	11594.5
52.5°	12852.4	12729.2	12830.8	13335.8	13945.5	13822.3	12295.0	11920.9	12604.5	13686.8	12878.5
55°	12843.1	12655.3	12986.3	13877.7	15200.2	15341.9	13897.7	13466.7	14105.6	15440.4	14239.5
57.5°	12389.0	12398.2	12907.8	14074.8	16074.7	16770.6	15757.6	15110.9	15697.5	17217.1	15482.0
60°	11763.9	11848.6	12582.9	14042.5	16775.2	17942.2	18039.2	16883.0	17257.1	18832.1	16510.4
62.5°	10755.5	10844.8	11857.8	13706.8	16669.0	19070.7	20102.2	18893.7	18887.5	19811.3	16812.2
65°	9165.1	9138.9	10202.8	12452.1	15777.6	19905.2	22151.4	20631.8	20116.1	19826.7	16205.6
67.5°	6758.7	6641.7	7554.7	9483.8	13114.1	18970.6	23356.9	21537.1	20534.9	18522.6	14351.9
70°	3507.2	3390.1	4129.1	5537.9	8624.7	14806.1	22022.1	21069.1	19609.6	15526.6	11243.5
72.5°	1499.5	1479.5	1779.7	2429.4	4172.2	8540.0	17267.9	18236.3	16826.0	11568.4	7730.2
75°	1008.4	1002.3	1114.7	1324.0	1876.7	3465.6	10806.3	12944.7	12310.4	7172.9	4347.8
77.5°	791.3	783.6	849.8	951.5	1216.3	1367.1	4795.8	6949.6	6432.3	3122.3	1902.9
80°	618.9	612.8	654.3	709.7	874.5	862.2	1578.1	2765.1	2140.0	1196.2	925.3
82.5°	488.0	488.0	521.9	523.5	620.4	588.1	823.7	1217.8	1068.5	697.4	566.6
85°	446.5	446.5	481.9	391.1	404.9	371.0	511.1	722.1	677.4	286.4	246.3
87.5°	224.8	218.6	404.9	346.4	220.2	197.1	249.4	349.5	375.7	158.6	123.2
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°	3930.5	3930.5	3930.5	3930.5	3930.5	3930.5	3930.5	3930.5	3930.5	3930.5
2.5°	3912.1	3910.5	3913.6	3915.1	3927.5	3944.4	3952.1	3962.9	3969.0	3965.9
5°	3865.9	3869.0	3881.3	3890.5	3912.1	3939.8	3955.2	3967.5	3978.3	3973.6
7.5°	3827.4	3835.1	3853.6	3861.3	3873.6	3881.3	3879.7	3884.3	3893.6	3882.8
10°	3805.8	3815.1	3828.9	3818.1	3788.9	3747.3	3708.8	3688.8	3695.0	3687.3
12.5°	3784.3	3796.6	3785.8	3735.0	3653.4	3599.5	3570.3	3573.4	3587.2	3590.3
15°	3772.0	3776.6	3730.4	3634.9	3551.8	3544.1	3559.5	3556.4	3558.0	3558.0
17.5°	3772.0	3759.6	3673.4	3578.0	3542.6	3528.7	3481.0	3420.9	3394.8	3385.5
20°	3792.0	3759.6	3655.0	3591.8	3514.9	3396.3	3270.1	3159.2	3109.9	3096.1
22.5°	3852.0	3796.6	3707.3	3598.0	3379.4	3180.8	2980.6	2848.2	2758.9	2743.5
25°	3973.6	3912.1	3810.4	3516.4	3163.8	2880.5	2652.7	2504.9	2415.6	2403.3
27.5°	4186.1	4146.1	3865.9	3336.3	2877.5	2574.2	2363.2	2249.3	2183.1	2178.5
30°	4506.3	4486.3	3838.2	3069.9	2524.9	2277.0	2175.4	2109.2	2060.0	2058.4
32.5°	5017.5	4855.8	3747.3	2745.1	2203.1	2066.1	2024.5	1984.5	1946.0	1946.0
35°	5674.9	5154.5	3574.9	2397.1	2007.6	1949.1	1896.8	1833.6	1782.8	1779.7
37.5°	6447.7	5339.2	3265.4	2116.9	1915.2	1870.6	1793.6	1699.7	1610.4	1595.0
40°	7228.3	5394.7	2829.7	1944.5	1856.7	1792.1	1698.2	1587.3	1501.1	1496.5
42.5°	7944.2	5288.4	2367.9	1825.9	1798.2	1712.0	1613.5	1514.9	1447.2	1445.7
45°	8544.6	5012.9	1979.9	1713.5	1736.6	1639.6	1551.9	1471.8	1419.5	1408.7
47.5°	9109.7	4623.3	1707.4	1595.0	1675.1	1599.6	1525.7	1450.3	1399.5	1391.8
50°	9765.5	4203.0	1516.5	1479.5	1621.2	1585.8	1547.3	1468.8	1384.1	1374.8
52.5°	10559.9	3839.7	1367.1	1377.9	1579.6	1604.2	1602.7	1521.1	1373.3	1361.0
55°	11446.7	3436.3	1254.8	1294.8	1562.7	1638.1	1616.6	1570.4	1382.5	1364.1
57.5°	12319.7	2965.2	1176.2	1231.7	1538.0	1635.0	1550.4	1484.2	1404.1	1377.9
60°	12974.0	2332.5	1116.2	1176.2	1484.2	1584.2	1478.0	1390.2	1399.5	1379.5
62.5°	13017.1	1802.8	1043.8	1128.5	1402.6	1533.4	1430.3	1348.7	1419.5	1401.0
65°	12251.9	1362.5	974.6	1071.5	1314.8	1501.1	1384.1	1325.6	1461.1	1441.0
67.5°	10315.2	1096.2	916.0	1013.0	1227.0	1433.3	1342.5	1304.0	1498.0	1462.6
70°	7446.9	934.5	859.1	942.2	1148.5	1356.4	1305.6	1265.5	1397.9	1342.5
72.5°	4584.9	809.8	794.4	848.3	1088.5	1276.3	1250.1	1193.2	1259.4	1214.7
75°	2289.3	702.0	722.1	755.9	1003.8	1185.5	1157.8	1100.8	1110.0	1100.8
77.5°	1096.2	600.4	637.4	663.6	894.5	1082.3	1053.1	994.6	983.8	985.3
80°	694.3	501.9	537.3	555.8	799.0	962.2	933.0	874.5	997.6	925.3
82.5°	434.2	408.0	417.2	451.1	695.9	837.5	799.0	746.7	899.1	711.3
85°	240.2	284.8	297.1	326.4	535.8	700.5	662.0	595.8	534.2	525.0
87.5°	143.2	169.4	174.0	195.5	360.3	506.5	448.0	424.9	352.6	351.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)