

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: P191444

Luminaire Tested: **GLEON-AF-06-LED-E1-T3-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191444
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-T3-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29430.3 lumens
Efficiency: N/A
Efficacy: 118.2 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

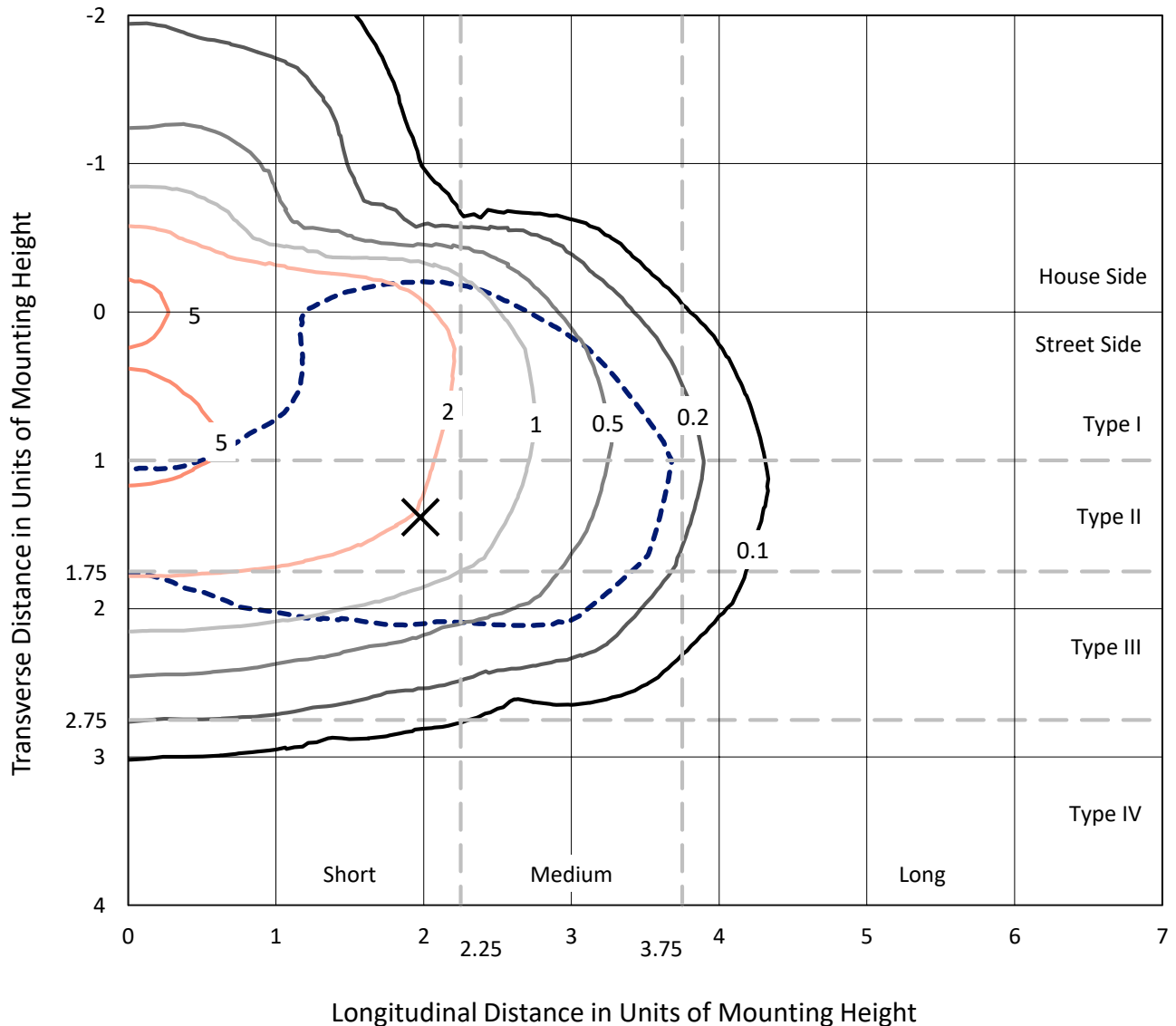
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

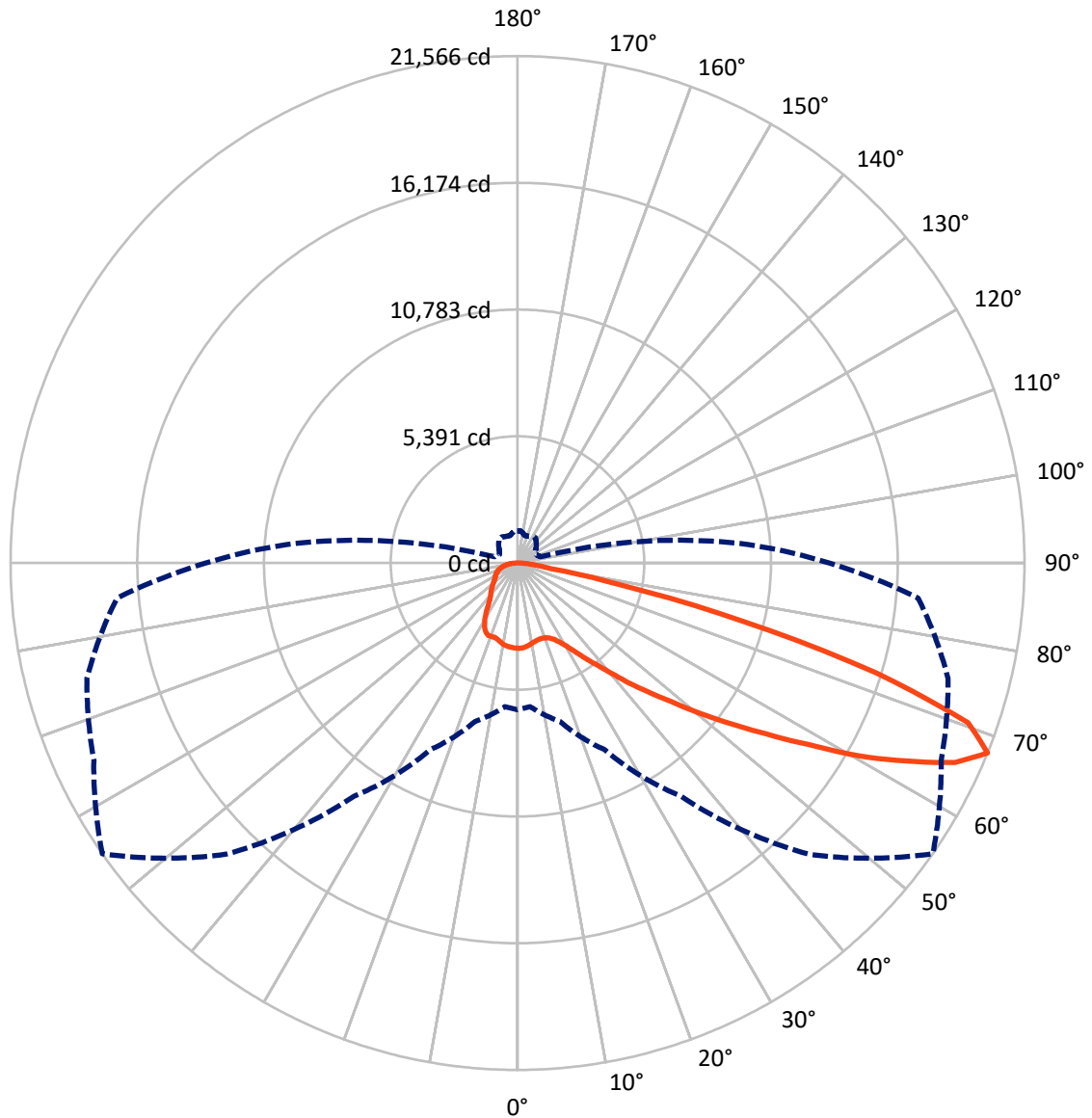
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	6357.6	0.0	6357.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	23072.7	0.0	23072.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	29430.3	0.0	29430.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.7	1.2
10°-20°	959.3	3.3
20°-30°	1607.0	5.5
30°-40°	2642.7	9.0
40°-50°	4448.4	15.1
50°-60°	7001.4	23.8
60°-70°	8355.5	28.4
70°-80°	3588.0	12.2
80°-90°	489.2	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°	29430.3	100.0
0°-180°	29430.3	100.0



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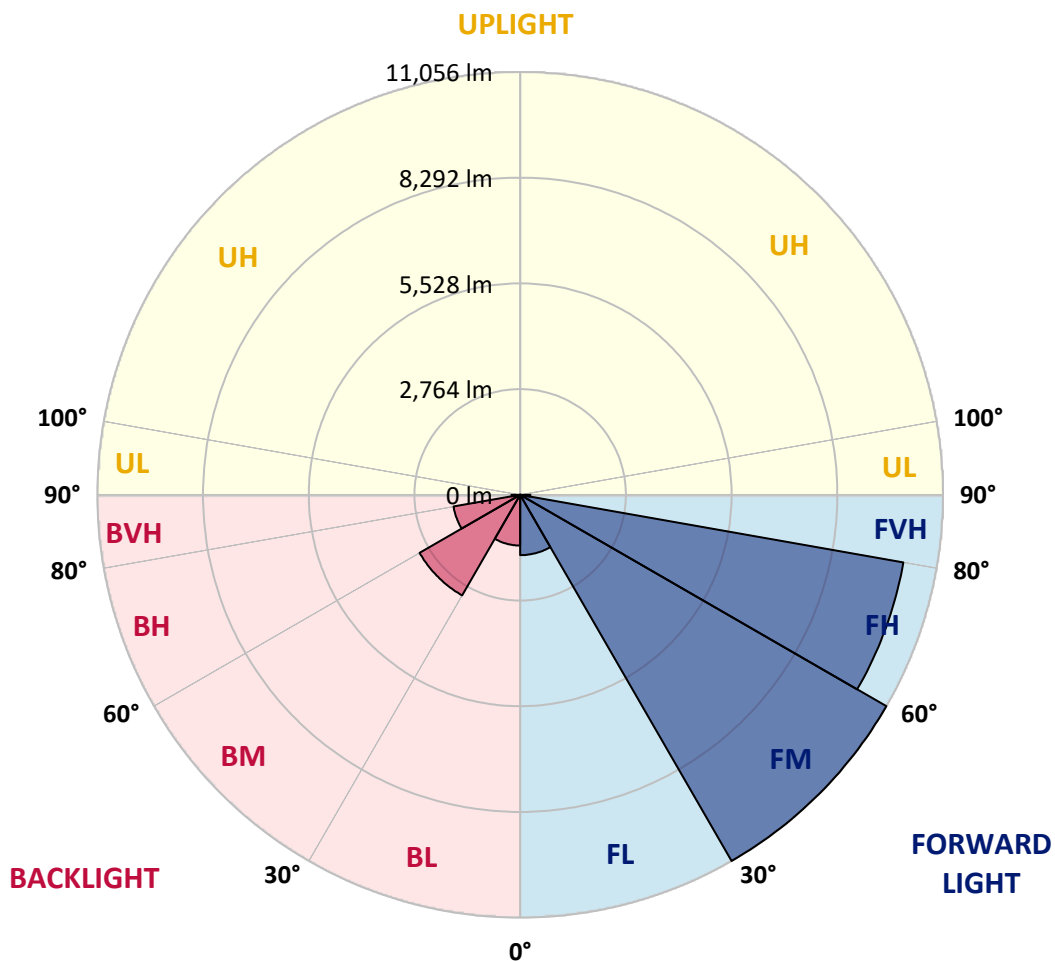
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1577.5	5.4			
FM	(30°-60°)	11056.2	37.6			
FH	(60°-80°)	10174.2	34.6			G4/12000
FVH	(80°-90°)	264.8	0.9			G3/500
BL	(0°-30°)	1327.6	4.5	B3/2500		
BM	(30°-60°)	3036.3	10.3	B3/5000		
BH	(60°-80°)	1769.3	6.0	B3/2500		G3/2500
BVH	(80°-90°)	224.4	0.8			G2/225
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°	3629.1	3629.1	3629.1	3629.1	3629.1	3629.1	3629.1	3629.1	3629.1	3629.1	3629.1
2.5°	3597.8	3599.3	3602.1	3613.5	3623.4	3620.5	3622.0	3616.2	3614.9	3606.3	3614.9
5°	3552.3	3556.6	3558.0	3576.4	3587.9	3590.7	3586.5	3579.3	3570.8	3562.2	3566.5
7.5°	3448.6	3459.9	3461.4	3486.9	3505.4	3529.6	3531.0	3532.5	3528.2	3522.4	3531.0
10°	3383.2	3386.0	3384.5	3403.1	3417.3	3444.3	3459.9	3486.9	3498.3	3501.2	3506.8
12.5°	3378.9	3376.0	3371.7	3371.7	3367.6	3378.9	3407.3	3445.7	3472.7	3481.2	3488.4
15°	3424.4	3423.0	3408.8	3387.4	3360.4	3351.9	3376.0	3418.7	3454.2	3472.7	3479.8
17.5°	3526.7	3518.2	3495.4	3447.1	3388.8	3366.1	3369.0	3404.5	3445.7	3469.8	3477.0
20°	3714.3	3714.3	3666.1	3575.1	3471.3	3417.3	3391.7	3413.0	3452.8	3485.5	3495.4
22.5°	4038.5	4041.3	3960.3	3811.0	3636.2	3521.0	3457.1	3452.8	3499.7	3536.6	3548.0
25°	4497.6	4486.3	4372.5	4159.3	3893.5	3703.0	3592.1	3566.5	3606.3	3647.5	3661.8
27.5°	5032.1	4990.9	4855.8	4598.6	4254.6	3975.9	3805.4	3764.2	3802.5	3849.4	3863.6
30°	5560.9	5518.2	5357.6	5076.2	4693.8	4341.2	4096.7	4029.9	4083.9	4150.7	4159.3
32.5°	6089.7	6089.7	5910.6	5582.2	5165.7	4777.7	4484.8	4405.2	4494.7	4575.8	4594.3
35°	6722.2	6725.1	6551.7	6156.5	5708.7	5297.9	4975.2	4916.9	5051.9	5108.8	5152.9
37.5°	7499.8	7515.4	7292.3	6814.7	6324.2	5892.1	5508.3	5428.7	5563.7	5718.7	5860.8
40°	8339.9	8359.9	8113.9	7525.4	7034.9	6582.9	6167.9	6024.3	6248.9	6544.5	6727.9
42.5°	9141.6	9244.0	9006.6	8401.1	7873.7	7406.0	6985.2	6776.2	7057.7	7504.1	7663.2
45°	10300.2	10374.1	9960.4	9411.8	8915.6	8392.5	7835.3	7614.9	8008.7	8571.6	8604.3
47.5°	11072.0	11016.6	10806.2	10465.1	10150.9	9661.9	8823.3	8581.5	9104.7	9767.1	9583.7
50°	11482.8	11499.9	11471.5	11491.3	11502.8	11195.7	10034.3	9703.1	10327.2	11127.5	10705.3
52.5°	11866.6	11752.9	11846.7	12313.0	12875.9	12762.2	11352.1	11006.6	11637.8	12637.1	11890.8
55°	11858.1	11684.7	11990.3	12813.4	14034.4	14165.2	12831.8	12433.9	13023.7	14256.1	13147.4
57.5°	11438.7	11447.3	11917.8	12995.3	14841.8	15484.3	14549.0	13951.9	14493.6	15896.6	14294.5
60°	10861.7	10939.8	11617.9	12965.5	15488.6	16566.1	16655.7	15588.1	15933.6	17387.7	15244.1
62.5°	9930.6	10013.1	10948.3	12655.5	15390.5	17608.1	18560.4	17444.6	17438.9	18291.8	15522.8
65°	8462.2	8438.0	9420.3	11497.0	14567.4	18378.5	20452.5	19049.5	18573.2	18306.0	14962.7
67.5°	6240.4	6132.3	6975.3	8756.5	12108.3	17515.7	21565.5	19885.2	18959.9	17102.0	13251.2
70°	3238.2	3130.1	3812.4	5113.1	7963.3	13670.5	20333.1	19453.1	18105.6	14335.7	10381.2
72.5°	1384.6	1366.0	1643.3	2243.1	3852.2	7885.0	15943.5	16837.6	15535.6	10681.1	7137.3
75°	931.1	925.4	1029.2	1222.5	1732.8	3199.8	9977.5	11952.0	11366.3	6622.8	4014.3
77.5°	730.7	723.5	784.7	878.5	1123.0	1262.3	4427.9	6416.7	5939.0	2882.8	1756.9
80°	571.4	565.8	604.2	655.3	807.4	796.1	1457.0	2553.0	1975.8	1104.5	854.4
82.5°	450.6	450.6	481.9	483.3	572.9	543.0	760.5	1124.4	986.5	643.9	523.1
85°	412.2	412.2	444.9	361.1	373.9	342.6	471.9	666.7	625.4	264.4	227.4
87.5°	207.6	201.8	373.9	319.9	203.3	182.0	230.3	322.6	346.9	146.4	113.8
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°	3629.1	3629.1	3629.1	3629.1	3629.1	3629.1	3629.1	3629.1	3629.1	3629.1
2.5°	3612.0	3610.6	3613.5	3614.9	3626.3	3641.9	3649.0	3658.9	3664.6	3661.8
5°	3569.4	3572.2	3583.6	3592.1	3612.0	3637.6	3651.8	3663.2	3673.1	3668.9
7.5°	3533.9	3540.9	3558.0	3565.1	3576.4	3583.6	3582.2	3586.5	3595.0	3585.0
10°	3513.9	3522.4	3535.2	3525.3	3498.3	3459.9	3424.4	3405.9	3411.5	3404.5
12.5°	3494.0	3505.4	3495.4	3448.6	3373.2	3323.5	3296.5	3299.3	3312.1	3315.0
15°	3482.6	3486.9	3444.3	3356.2	3279.4	3272.3	3286.5	3283.7	3285.1	3285.1
17.5°	3482.6	3471.3	3391.7	3303.5	3270.9	3258.1	3214.0	3158.6	3134.4	3125.8
20°	3501.2	3471.3	3374.6	3316.3	3245.3	3135.9	3019.2	2916.9	2871.4	2858.6
22.5°	3556.6	3505.4	3423.0	3322.0	3120.2	2936.8	2752.0	2629.8	2547.4	2533.1
25°	3668.9	3612.0	3518.2	3246.7	2921.1	2659.6	2449.3	2312.8	2230.3	2219.0
27.5°	3865.0	3828.1	3569.4	3080.4	2656.8	2376.7	2182.0	2076.8	2015.7	2011.4
30°	4160.8	4142.2	3543.8	2834.5	2331.2	2102.4	2008.6	1947.5	1902.0	1900.5
32.5°	4632.6	4483.4	3459.9	2534.6	2034.1	1907.6	1869.2	1832.3	1796.8	1796.8
35°	5239.7	4759.2	3300.8	2213.3	1853.6	1799.6	1751.3	1693.0	1646.1	1643.3
37.5°	5953.3	4929.7	3014.9	1954.6	1768.4	1727.2	1656.1	1569.3	1486.9	1472.6
40°	6673.9	4981.0	2612.7	1795.4	1714.4	1654.6	1567.9	1465.6	1386.0	1381.7
42.5°	7334.9	4882.9	2186.3	1685.9	1660.4	1580.7	1489.7	1398.8	1336.2	1334.7
45°	7889.3	4628.3	1828.0	1582.1	1603.5	1513.9	1432.8	1359.0	1310.6	1300.7
47.5°	8411.0	4268.8	1576.5	1472.6	1546.6	1476.9	1408.7	1339.0	1292.1	1285.0
50°	9016.5	3880.7	1400.2	1366.0	1496.9	1464.1	1428.7	1356.1	1278.0	1269.4
52.5°	9750.1	3545.2	1262.3	1272.2	1458.4	1481.2	1479.8	1404.4	1267.9	1256.6
55°	10568.8	3172.8	1158.5	1195.5	1442.8	1512.4	1492.6	1449.9	1276.5	1259.5
57.5°	11374.8	2737.8	1086.1	1137.2	1420.1	1509.7	1431.4	1370.3	1296.4	1272.2
60°	11979.0	2153.5	1030.6	1086.1	1370.3	1462.7	1364.6	1283.6	1292.1	1273.7
62.5°	12018.8	1664.5	963.8	1042.0	1295.0	1415.8	1320.5	1245.2	1310.6	1293.5
65°	11312.3	1258.0	899.8	989.4	1213.9	1386.0	1278.0	1223.9	1349.0	1330.6
67.5°	9524.0	1012.1	845.8	935.4	1132.9	1323.4	1239.5	1204.0	1383.1	1350.4
70°	6875.8	862.9	793.2	869.9	1060.4	1252.3	1205.4	1168.5	1290.8	1239.5
72.5°	4233.2	747.7	733.5	783.3	1004.9	1178.4	1154.3	1101.6	1162.8	1121.6
75°	2113.7	648.2	666.7	698.0	926.8	1094.6	1069.0	1016.4	1024.9	1016.4
77.5°	1012.1	554.3	588.5	612.6	825.9	999.3	972.3	918.3	908.4	909.7
80°	641.1	463.4	496.1	513.1	737.8	888.4	861.4	807.4	921.2	854.4
82.5°	400.9	376.7	385.2	416.5	642.5	773.2	737.8	689.5	830.1	656.7
85°	221.8	263.0	274.4	301.4	494.7	646.8	611.2	550.1	493.3	484.8
87.5°	132.2	156.4	160.6	180.6	332.7	467.7	413.7	392.3	325.5	324.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)