

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: P193994

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193994
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29057 lumens
Efficiency: N/A
Efficacy: 87.3 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): 333
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

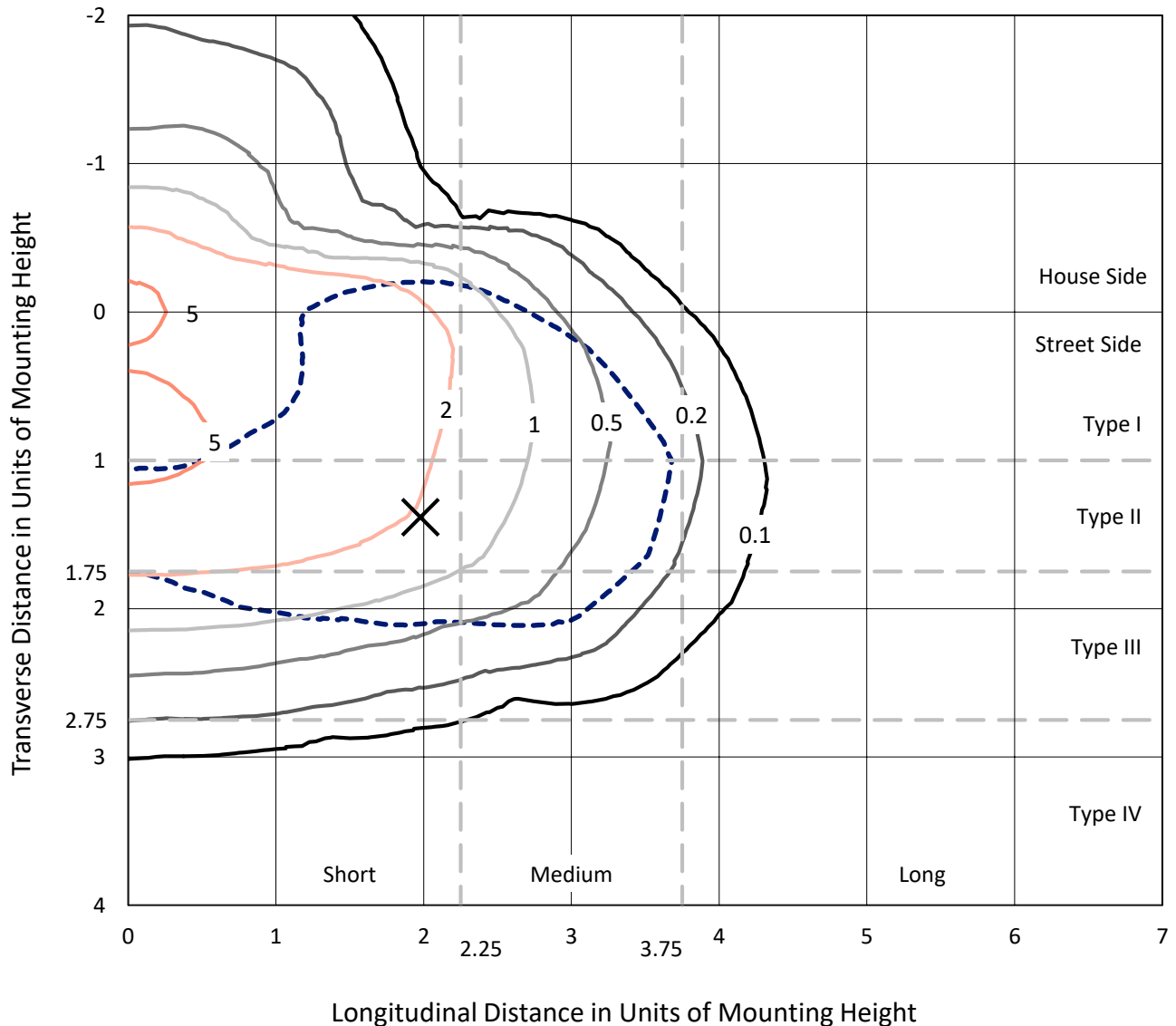


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

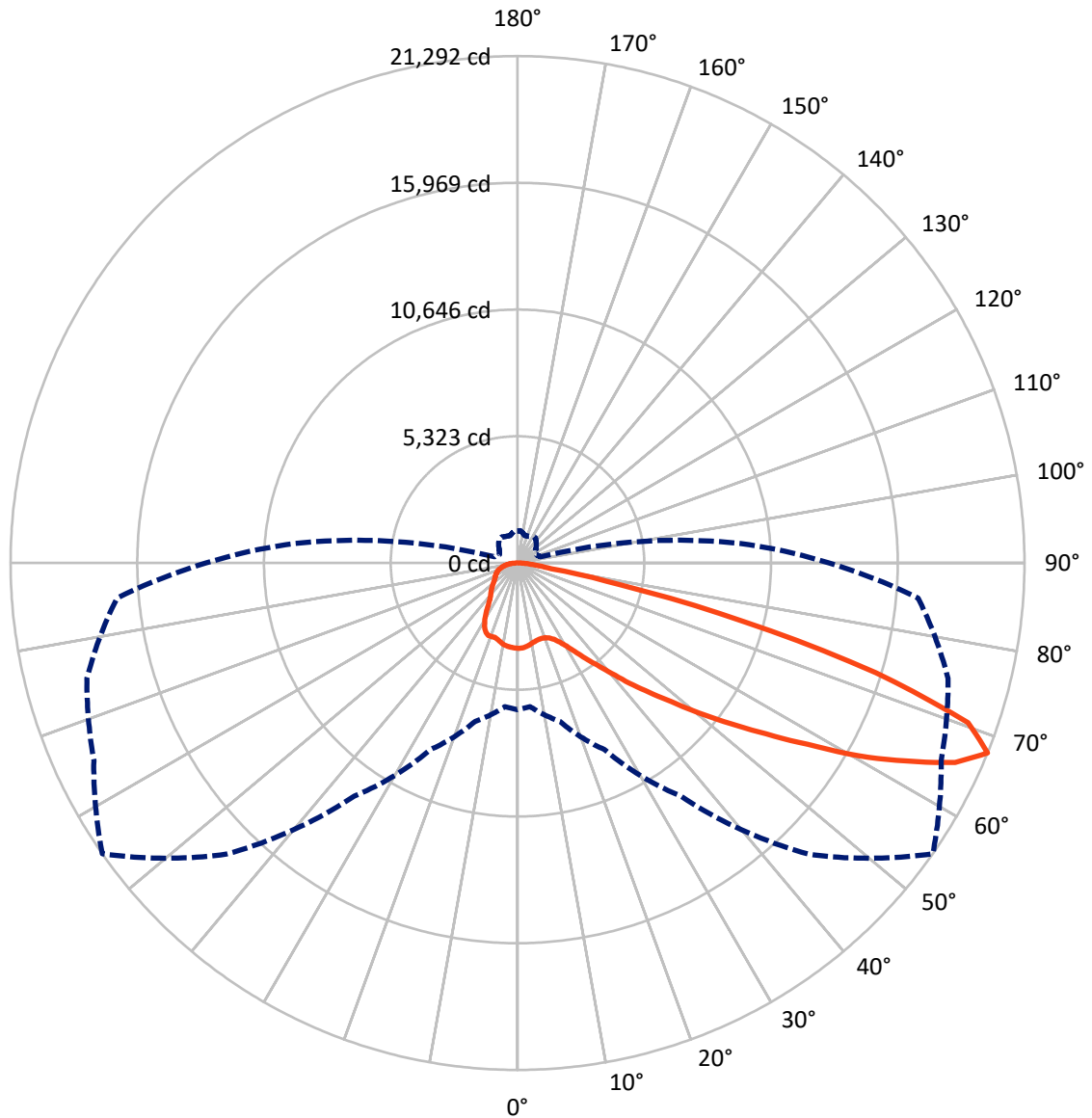


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - Full Cutoff

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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	6276.9	0.0	6276.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	22780.1	0.0	22780.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	29057.0	0.0	29057.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.4	1.2
10°-20°	947.2	3.3
20°-30°	1586.6	5.5
30°-40°	2609.1	9.0
40°-50°	4392.0	15.1
50°-60°	6912.6	23.8
60°-70°	8249.5	28.4
70°-80°	3542.5	12.2
80°-90°	483.0	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°	29057.0	100.0
0°-180°	29057.0	100.0



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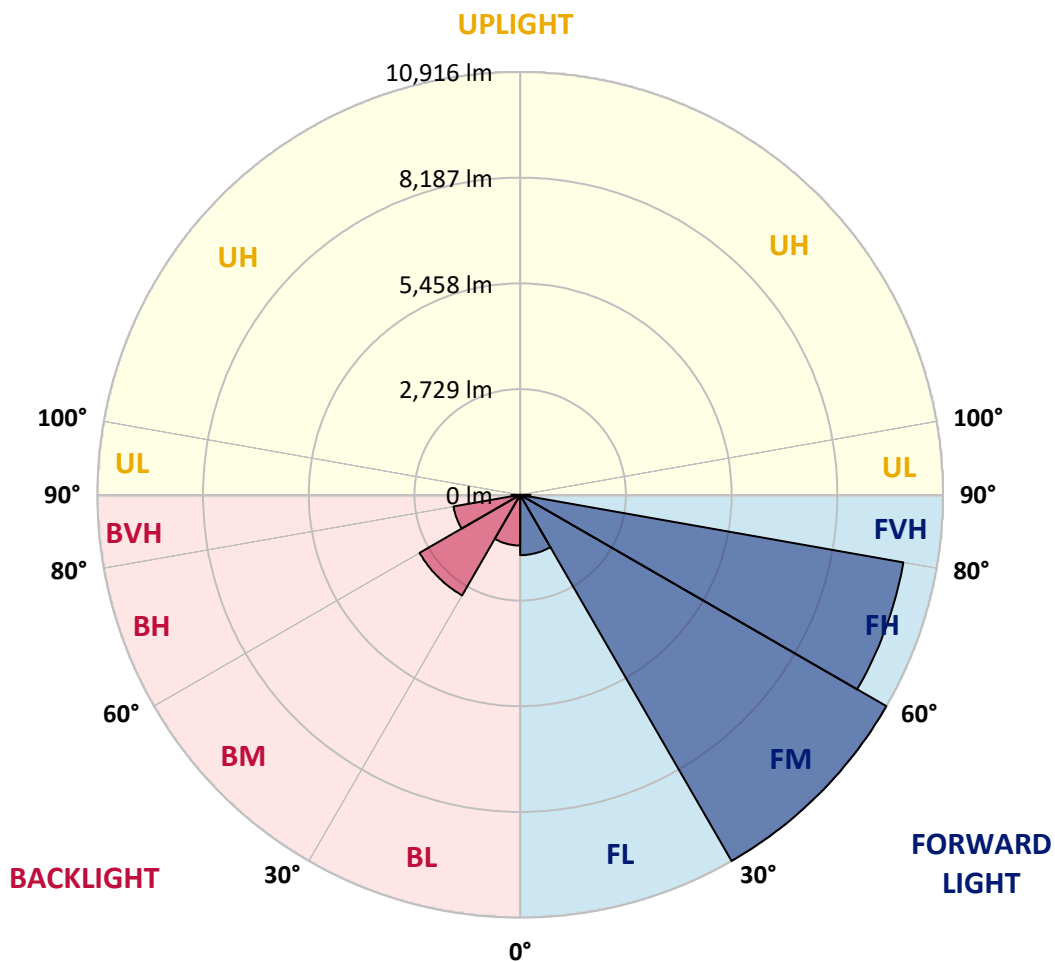
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1557.5	5.4			
FM	(30°-60°)	10916.0	37.6			
FH	(60°-80°)	10045.1	34.6			G4/12000
FVH	(80°-90°)	261.4	0.9			G3/500
BL	(0°-30°)	1310.7	4.5	B3/2500		
BM	(30°-60°)	2997.8	10.3	B3/5000		
BH	(60°-80°)	1746.8	6.0	B3/2500		G3/2500
BVH	(80°-90°)	221.5	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°	3583.0	3583.0	3583.0	3583.0	3583.0	3583.0	3583.0	3583.0	3583.0	3583.0	3583.0
2.5°	3552.2	3553.6	3556.4	3567.6	3577.4	3574.6	3576.0	3570.4	3569.0	3560.6	3569.0
5°	3507.3	3511.5	3512.9	3531.1	3542.3	3545.2	3540.9	3533.9	3525.5	3517.1	3521.3
7.5°	3404.8	3416.0	3417.4	3442.7	3460.9	3484.8	3486.2	3487.6	3483.4	3477.8	3486.2
10°	3340.2	3343.1	3341.6	3359.9	3373.9	3400.6	3416.0	3442.7	3453.9	3456.7	3462.3
12.5°	3336.0	3333.2	3329.0	3329.0	3324.8	3336.0	3364.1	3402.0	3428.7	3437.1	3444.1
15°	3380.9	3379.5	3365.5	3344.5	3317.8	3309.4	3333.2	3375.3	3410.4	3428.7	3435.7
17.5°	3482.0	3473.6	3451.1	3403.4	3345.9	3323.4	3326.2	3361.3	3402.0	3425.9	3432.9
20°	3667.3	3667.3	3619.5	3529.7	3427.3	3373.9	3348.7	3369.7	3409.0	3441.3	3451.1
22.5°	3987.2	3990.1	3910.1	3762.7	3590.1	3476.4	3413.2	3409.0	3455.3	3491.8	3503.0
25°	4440.6	4429.3	4317.1	4106.5	3844.1	3656.0	3546.6	3521.3	3560.6	3601.3	3615.3
27.5°	4968.3	4927.6	4794.2	4540.2	4200.6	3925.5	3757.1	3716.4	3754.3	3800.6	3814.6
30°	5490.4	5448.3	5289.7	5011.8	4634.2	4286.2	4044.8	3978.8	4032.2	4098.1	4106.5
32.5°	6012.4	6012.4	5835.6	5511.4	5100.2	4717.0	4427.9	4349.3	4437.8	4517.8	4536.0
35°	6637.0	6639.8	6468.6	6078.4	5636.3	5230.7	4912.1	4854.6	4987.9	5044.1	5087.6
37.5°	7404.7	7420.1	7199.8	6728.2	6244.0	5817.4	5438.4	5359.8	5493.2	5646.1	5786.5
40°	8234.1	8253.8	8011.0	7429.9	6945.7	6499.4	6089.6	5947.9	6169.6	6461.6	6642.6
42.5°	9025.7	9126.7	8892.4	8294.5	7773.8	7312.1	6896.6	6690.3	6968.2	7408.9	7566.1
45°	10169.5	10242.5	9834.1	9292.3	8802.5	8286.1	7735.9	7518.4	7907.1	8462.9	8495.2
47.5°	10931.6	10876.9	10669.1	10332.3	10022.1	9539.3	8711.3	8472.7	8989.2	9643.2	9462.2
50°	11337.2	11354.0	11326.0	11345.6	11356.8	11053.7	9907.1	9580.1	10196.2	10986.3	10569.5
52.5°	11716.1	11603.8	11696.5	12156.8	12712.6	12600.3	11208.1	10867.0	11490.2	12476.8	11740.0
55°	11707.7	11536.5	11838.2	12650.8	13856.4	13985.5	12669.1	12276.1	12858.5	14075.3	12980.6
57.5°	11293.7	11302.1	11766.6	12830.5	14653.6	15287.9	14364.5	13775.0	14309.7	15694.9	14113.2
60°	10723.9	10801.1	11470.5	12801.0	15292.2	16356.0	16444.4	15390.4	15731.4	17167.2	15050.8
62.5°	9804.6	9886.0	10809.5	12495.0	15195.3	17384.7	18325.0	17223.3	17217.7	18059.8	15325.8
65°	8354.8	8331.0	9300.8	11351.2	14382.7	18145.4	20193.1	18807.8	18337.7	18073.8	14772.9
67.5°	6161.2	6054.5	6886.8	8645.3	11954.7	17293.5	21292.0	19633.1	18719.4	16885.1	13083.1
70°	3197.1	3090.4	3764.1	5048.3	7862.2	13497.1	20075.2	19206.4	17875.9	14153.9	10249.5
72.5°	1367.0	1348.7	1622.4	2214.7	3803.4	7785.0	15741.3	16624.0	15338.5	10545.6	7046.8
75°	919.3	913.7	1016.1	1207.0	1710.8	3159.2	9850.9	11800.3	11222.1	6538.7	3963.4
77.5°	721.4	714.4	774.7	867.3	1108.7	1246.3	4371.8	6335.2	5863.7	2846.2	1734.7
80°	564.2	558.6	596.5	647.0	797.2	785.9	1438.6	2520.6	1950.8	1090.5	843.5
82.5°	444.9	444.9	475.8	477.2	565.6	536.1	750.9	1110.1	974.0	635.8	516.5
85°	407.0	407.0	439.3	356.5	369.1	338.2	466.0	658.2	617.5	261.0	224.6
87.5°	204.9	199.3	369.1	315.8	200.7	179.6	227.4	318.6	342.4	144.6	112.3
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°	3583.0	3583.0	3583.0	3583.0	3583.0	3583.0	3583.0	3583.0	3583.0	3583.0
2.5°	3566.2	3564.8	3567.6	3569.0	3580.2	3595.7	3602.7	3612.5	3618.1	3615.3
5°	3524.1	3526.9	3538.1	3546.6	3566.2	3591.5	3605.5	3616.7	3626.6	3622.3
7.5°	3489.0	3496.0	3512.9	3519.9	3531.1	3538.1	3536.7	3540.9	3549.4	3539.5
10°	3469.4	3477.8	3490.4	3480.6	3453.9	3416.0	3380.9	3362.7	3368.3	3361.3
12.5°	3449.7	3460.9	3451.1	3404.8	3330.4	3281.3	3254.6	3257.4	3270.1	3272.9
15°	3438.5	3442.7	3400.6	3313.6	3237.8	3230.8	3244.8	3242.0	3243.4	3243.4
17.5°	3438.5	3427.3	3348.7	3261.7	3229.4	3216.7	3173.2	3118.5	3094.6	3086.2
20°	3456.7	3427.3	3331.8	3274.3	3204.1	3096.0	2981.0	2879.9	2835.0	2822.4
22.5°	3511.5	3460.9	3379.5	3279.9	3080.6	2899.6	2717.1	2596.4	2515.0	2501.0
25°	3622.3	3566.2	3473.6	3205.5	2884.1	2625.9	2418.2	2283.4	2202.0	2190.8
27.5°	3816.0	3779.5	3524.1	3041.3	2623.1	2346.6	2154.3	2050.5	1990.1	1985.9
30°	4107.9	4089.7	3498.8	2798.5	2301.7	2075.7	1983.1	1922.7	1877.8	1876.4
32.5°	4573.9	4426.5	3416.0	2502.4	2008.4	1883.4	1845.6	1809.1	1774.0	1774.0
35°	5173.2	4698.8	3258.8	2185.2	1830.1	1776.8	1729.1	1671.5	1625.2	1622.4
37.5°	5877.7	4867.2	2976.7	1929.8	1745.9	1705.2	1635.0	1549.4	1468.0	1454.0
40°	6589.3	4917.7	2579.6	1772.6	1692.6	1633.6	1548.0	1447.0	1368.4	1364.2
42.5°	7241.9	4820.9	2158.5	1664.5	1639.2	1560.7	1470.8	1381.0	1319.3	1317.9
45°	7789.2	4569.7	1804.9	1562.1	1583.1	1494.7	1414.7	1341.7	1294.0	1284.2
47.5°	8304.3	4214.6	1556.4	1454.0	1527.0	1458.2	1390.8	1322.1	1275.7	1268.7
50°	8902.2	3831.5	1382.4	1348.7	1477.8	1445.6	1410.5	1338.9	1261.7	1253.3
52.5°	9626.4	3500.2	1246.3	1256.1	1440.0	1462.4	1461.0	1386.6	1251.9	1240.7
55°	10434.8	3132.5	1143.8	1180.3	1424.5	1493.3	1473.6	1431.5	1260.3	1243.5
57.5°	11230.5	2703.1	1072.2	1122.8	1402.1	1490.5	1413.3	1352.9	1280.0	1256.1
60°	11827.0	2126.2	1017.5	1072.2	1352.9	1444.2	1347.3	1267.3	1275.7	1257.5
62.5°	11866.3	1643.5	951.5	1028.7	1278.6	1397.9	1303.8	1229.4	1294.0	1277.2
65°	11168.8	1242.1	888.4	976.8	1198.6	1368.4	1261.7	1208.4	1331.9	1313.6
67.5°	9403.2	999.3	835.1	923.5	1118.6	1306.6	1223.8	1188.7	1365.6	1333.3
70°	6788.6	851.9	783.1	858.9	1047.0	1236.5	1190.1	1153.6	1274.3	1223.8
72.5°	4179.5	738.2	724.2	773.3	992.2	1163.5	1139.6	1087.7	1148.0	1107.3
75°	2087.0	640.0	658.2	689.1	915.1	1080.7	1055.4	1003.5	1011.9	1003.5
77.5°	999.3	547.4	581.0	604.9	815.4	986.6	960.0	906.6	896.8	898.2
80°	633.0	457.5	489.8	506.7	728.4	877.2	850.5	797.2	909.4	843.5
82.5°	395.8	371.9	380.3	411.2	634.4	763.5	728.4	680.7	819.6	648.4
85°	218.9	259.6	270.9	297.5	488.4	638.6	603.5	543.1	487.0	478.6
87.5°	130.5	154.4	158.6	178.2	328.4	461.7	408.4	387.4	321.4	320.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)