

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: P269425

Luminaire Tested: **GLEON-AF-06-LED-E1-T3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269425
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-T3-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30937.3 lumens
Efficiency: N/A
Efficacy: 92.9 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 (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

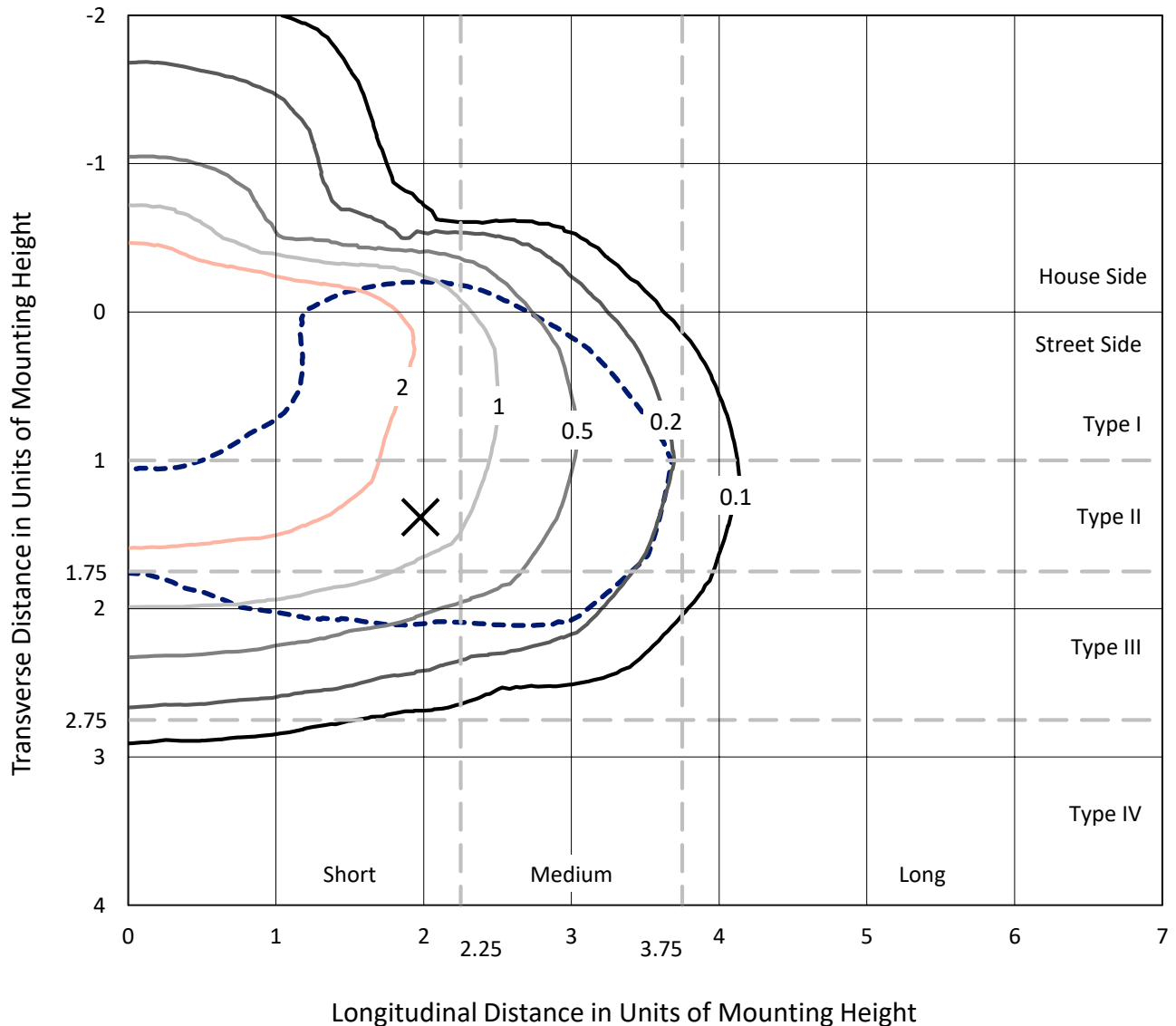


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

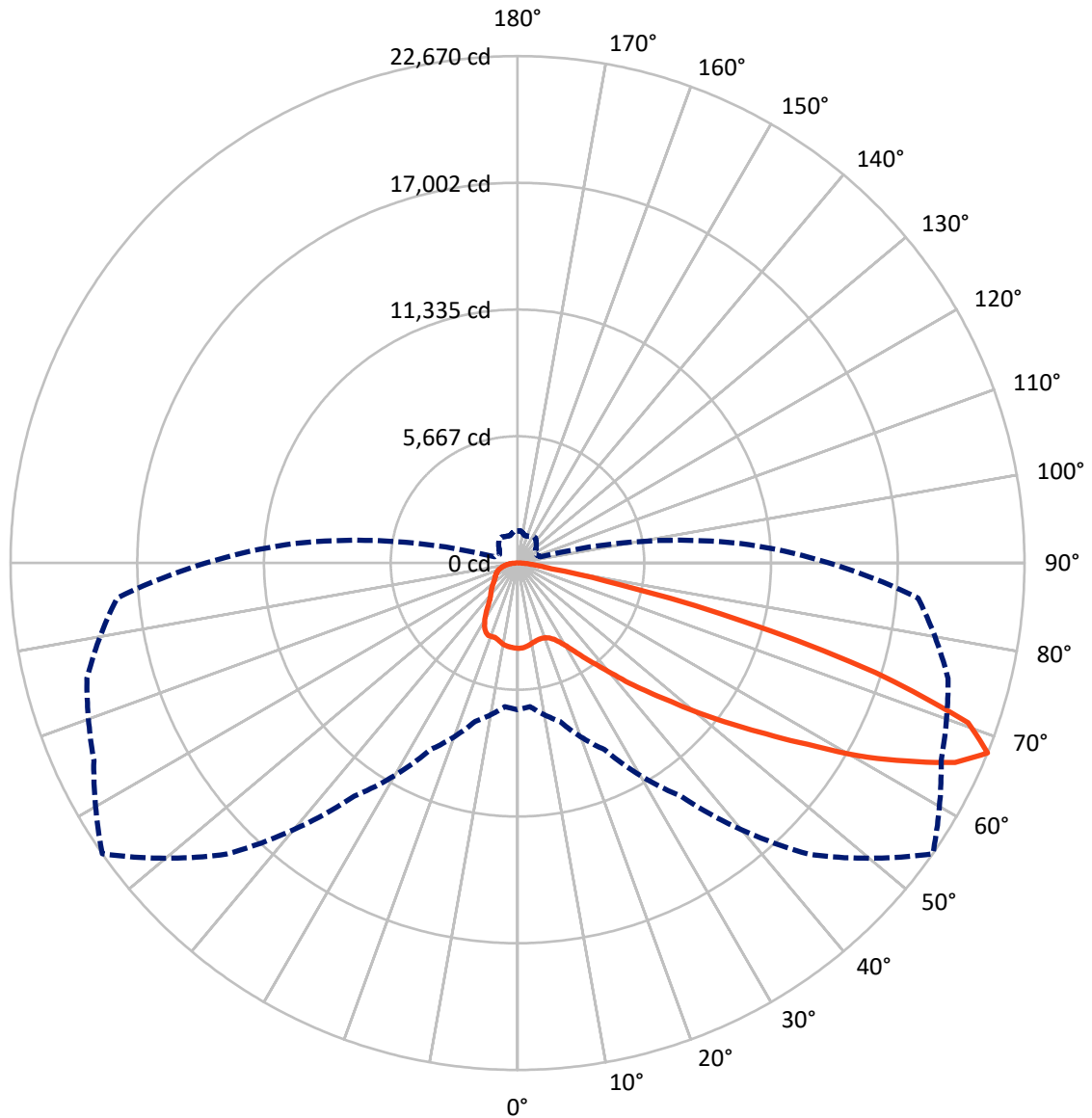


Based on 30 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - Full Cutoff

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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	6683.1	0.0	6683.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	24254.2	0.0	24254.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	30937.3	0.0	30937.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.1	1.2
10°-20°	1008.5	3.3
20°-30°	1689.3	5.5
30°-40°	2778.0	9.0
40°-50°	4676.2	15.1
50°-60°	7360.0	23.8
60°-70°	8783.3	28.4
70°-80°	3771.7	12.2
80°-90°	514.2	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°	30937.3	100.0
0°-180°	30937.3	100.0



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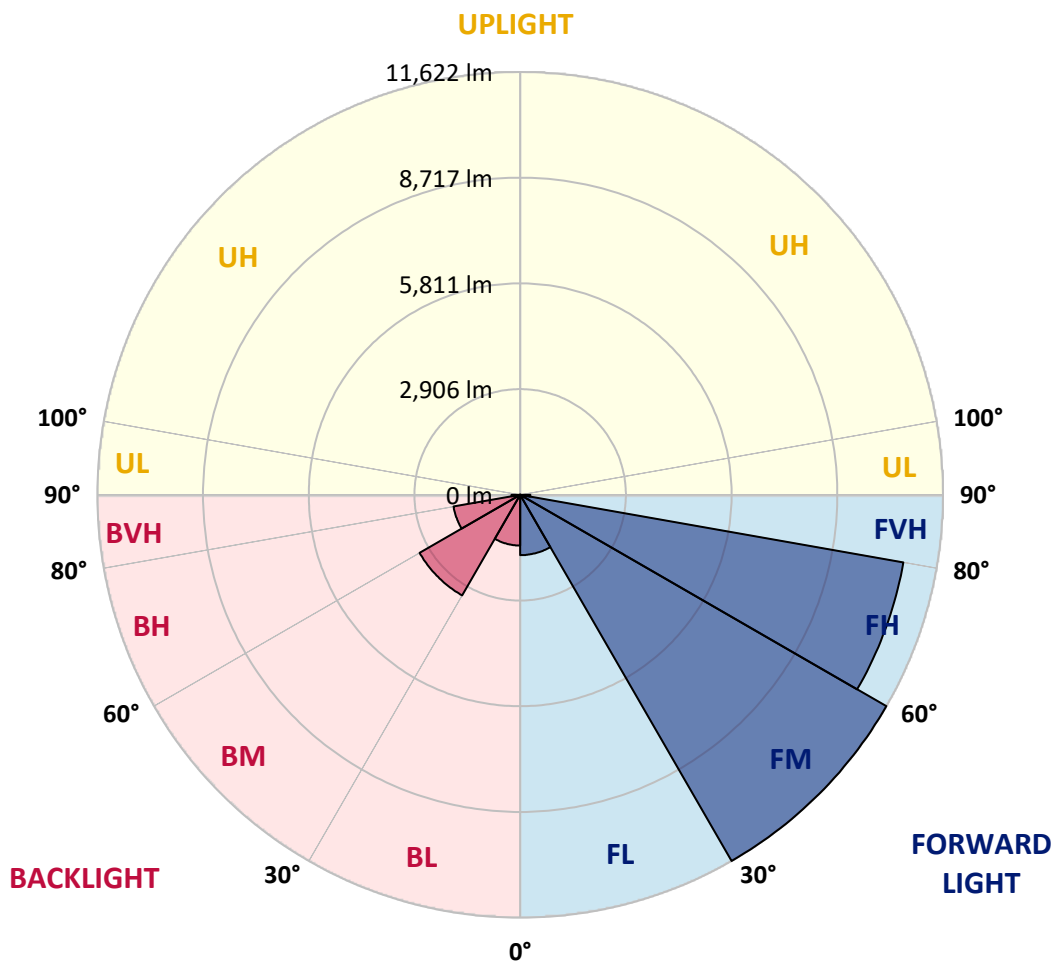
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1658.3	5.4			
FM	(30°-60°)	11622.3	37.6			
FH	(60°-80°)	10695.2	34.6			G4/12000
FVH	(80°-90°)	278.4	0.9			G3/500
BL	(0°-30°)	1395.6	4.5	B3/2500		
BM	(30°-60°)	3191.8	10.3	B3/5000		
BH	(60°-80°)	1859.9	6.0	B3/2500		G3/2500
BVH	(80°-90°)	235.9	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°	3814.9	3814.9	3814.9	3814.9	3814.9	3814.9	3814.9	3814.9	3814.9	3814.9	3814.9
2.5°	3782.0	3783.5	3786.5	3798.5	3809.0	3805.8	3807.5	3801.4	3800.0	3790.9	3800.0
5°	3734.3	3738.7	3740.3	3759.6	3771.5	3774.6	3770.0	3762.6	3753.7	3744.7	3749.2
7.5°	3625.1	3637.1	3638.6	3665.4	3684.8	3710.3	3711.7	3713.4	3708.8	3702.9	3711.7
10°	3556.4	3559.4	3557.8	3577.3	3592.2	3620.7	3637.1	3665.4	3677.4	3680.4	3686.5
12.5°	3551.9	3548.9	3544.4	3544.4	3540.0	3551.9	3581.8	3622.1	3650.5	3659.4	3667.1
15°	3599.7	3598.3	3583.2	3560.9	3532.4	3523.5	3548.9	3593.8	3631.0	3650.5	3658.0
17.5°	3707.3	3698.3	3674.4	3623.7	3562.4	3538.5	3541.5	3578.8	3622.1	3647.6	3655.1
20°	3904.6	3904.6	3853.8	3758.1	3649.1	3592.2	3565.4	3587.8	3629.6	3663.9	3674.4
22.5°	4245.3	4248.3	4163.0	4006.3	3822.4	3701.3	3634.2	3629.6	3678.9	3717.7	3729.8
25°	4727.9	4715.9	4596.4	4372.3	4092.9	3892.6	3776.0	3749.2	3790.9	3834.3	3849.2
27.5°	5289.8	5246.5	5104.4	4834.0	4472.4	4179.5	4000.2	3956.9	3997.2	4046.5	4061.4
30°	5845.6	5800.9	5632.0	5336.1	4934.1	4563.5	4306.6	4236.2	4293.1	4363.2	4372.3
32.5°	6401.5	6401.5	6213.2	5868.1	5430.3	5022.2	4714.5	4630.9	4724.9	4810.2	4829.5
35°	7066.4	7069.4	6887.1	6471.7	6001.0	5569.2	5230.0	5168.7	5310.7	5370.4	5416.8
37.5°	7883.9	7900.2	7665.6	7163.7	6648.0	6193.9	5790.4	5706.7	5848.7	6011.5	6160.9
40°	8767.0	8787.8	8529.3	7910.7	7395.1	6920.1	6483.6	6332.8	6568.9	6879.7	7072.4
42.5°	9609.7	9717.3	9467.7	8831.1	8276.9	7785.3	7342.9	7123.2	7419.1	7888.3	8055.7
45°	10827.6	10905.2	10470.5	9893.7	9372.1	8822.3	8236.5	8004.8	8418.7	9010.4	9044.9
47.5°	11639.0	11580.7	11359.5	11001.0	10670.6	10156.6	9275.0	9021.0	9570.9	10267.2	10074.4
50°	12070.9	12088.8	12058.8	12079.8	12091.7	11769.0	10548.2	10200.0	10855.9	11697.2	11253.4
52.5°	12474.3	12354.7	12453.4	12943.5	13535.2	13415.6	11933.4	11570.2	12233.7	13284.1	12499.6
55°	12465.3	12283.1	12604.3	13469.5	14753.0	14890.6	13488.9	13070.5	13690.6	14986.2	13820.7
57.5°	12024.5	12033.4	12528.0	13660.7	15601.9	16277.2	15294.1	14666.4	15235.8	16710.6	15026.5
60°	11417.7	11500.0	12212.7	13629.4	16281.7	17414.4	17508.5	16386.3	16749.3	18278.1	16024.7
62.5°	10439.1	10525.7	11508.9	13303.5	16178.7	18509.7	19510.8	18337.8	18331.8	19228.4	16317.5
65°	8895.5	8870.0	9902.6	12085.7	15313.3	19319.6	21499.8	20024.8	19524.3	19243.4	15728.9
67.5°	6560.0	6446.3	7332.4	9204.8	12728.4	18412.6	22669.7	20903.5	19930.8	17977.7	13929.7
70°	3403.9	3290.4	4007.7	5374.9	8370.9	14370.5	21374.2	20449.2	19032.7	15069.8	10912.7
72.5°	1455.4	1436.0	1727.4	2358.1	4049.5	8288.8	16759.9	17699.8	16331.0	11228.0	7502.9
75°	978.8	972.8	1081.9	1285.0	1821.6	3363.7	10488.4	12564.0	11948.3	6961.9	4219.9
77.5°	768.1	760.5	824.9	923.5	1180.6	1326.9	4654.7	6745.3	6243.1	3030.4	1846.9
80°	600.6	594.7	635.1	688.9	848.8	836.9	1531.6	2683.7	2077.1	1161.1	898.0
82.5°	473.6	473.6	506.6	508.0	602.3	570.9	799.4	1182.0	1037.1	677.0	549.9
85°	433.3	433.3	467.7	379.5	393.0	360.1	496.1	700.8	657.5	277.9	239.0
87.5°	218.2	212.2	393.0	336.2	213.6	191.2	242.1	339.2	364.6	153.9	119.6
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°	3814.9	3814.9	3814.9	3814.9	3814.9	3814.9	3814.9	3814.9	3814.9	3814.9
2.5°	3797.0	3795.5	3798.5	3800.0	3811.9	3828.3	3835.9	3846.4	3852.2	3849.2
5°	3752.1	3755.2	3767.1	3776.0	3797.0	3823.8	3838.7	3850.8	3861.3	3856.8
7.5°	3714.9	3722.2	3740.3	3747.6	3759.6	3767.1	3765.5	3770.0	3779.0	3768.6
10°	3693.9	3702.9	3716.3	3705.8	3677.4	3637.1	3599.7	3580.4	3586.3	3578.8
12.5°	3672.9	3684.8	3674.4	3625.1	3545.9	3493.7	3465.2	3468.3	3481.7	3484.6
15°	3661.0	3665.4	3620.7	3528.1	3447.3	3439.8	3454.8	3451.7	3453.3	3453.3
17.5°	3661.0	3649.1	3565.4	3472.7	3438.4	3424.9	3378.5	3320.2	3295.0	3285.9
20°	3680.4	3649.1	3547.4	3486.1	3411.5	3296.4	3173.8	3066.3	3018.5	3005.0
22.5°	3738.7	3684.8	3598.3	3492.2	3279.9	3087.1	2892.9	2764.4	2677.8	2662.8
25°	3856.8	3797.0	3698.3	3412.9	3070.8	2795.9	2574.6	2431.3	2344.5	2332.5
27.5°	4062.9	4024.0	3752.1	3238.1	2792.8	2498.5	2293.7	2183.2	2118.9	2114.4
30°	4373.8	4354.4	3725.2	2979.6	2450.7	2210.0	2111.5	2047.1	1999.4	1997.9
32.5°	4869.9	4713.0	3637.1	2664.4	2138.3	2005.3	1965.0	1926.1	1888.7	1888.7
35°	5507.9	5002.9	3469.8	2326.6	1948.6	1891.8	1840.9	1779.7	1730.3	1727.4
37.5°	6258.0	5182.1	3169.4	2054.7	1859.0	1815.6	1740.8	1649.6	1563.1	1548.0
40°	7015.7	5236.0	2746.5	1887.2	1802.1	1739.4	1648.2	1540.7	1457.0	1452.4
42.5°	7710.5	5132.8	2298.3	1772.3	1745.3	1661.7	1566.0	1470.3	1404.6	1403.2
45°	8293.2	4865.4	1921.7	1663.1	1685.6	1591.3	1506.3	1428.6	1377.7	1367.3
47.5°	8841.7	4487.4	1657.2	1548.0	1625.8	1552.6	1480.9	1407.6	1358.2	1350.8
50°	9478.2	4079.5	1471.9	1436.0	1573.6	1539.2	1501.7	1425.5	1343.3	1334.4
52.5°	10249.3	3726.8	1326.9	1337.3	1533.1	1557.0	1555.5	1476.4	1332.8	1321.0
55°	11110.0	3335.2	1217.8	1256.6	1516.7	1589.9	1569.0	1524.2	1341.9	1323.9
57.5°	11957.2	2878.0	1141.7	1195.5	1492.9	1586.9	1504.8	1440.5	1362.8	1337.3
60°	12592.4	2263.9	1083.4	1141.7	1440.5	1537.5	1434.6	1349.3	1358.2	1338.8
62.5°	12634.1	1749.8	1013.1	1095.4	1361.3	1488.3	1388.2	1309.0	1377.7	1359.9
65°	11891.6	1322.5	945.8	1040.0	1276.1	1457.0	1343.3	1286.6	1418.1	1398.7
67.5°	10011.7	1064.0	889.1	983.3	1191.0	1391.1	1303.0	1265.6	1453.9	1419.6
70°	7227.9	907.0	833.7	914.6	1114.7	1316.5	1267.1	1228.3	1356.8	1303.0
72.5°	4449.9	785.9	771.0	823.3	1056.4	1238.8	1213.4	1158.0	1222.4	1178.9
75°	2222.0	681.4	700.8	733.6	974.3	1150.5	1123.7	1068.4	1077.3	1068.4
77.5°	1064.0	582.8	618.7	644.1	868.2	1050.5	1022.1	965.3	954.9	956.3
80°	673.9	487.2	521.5	539.4	775.5	933.9	905.5	848.8	968.4	898.0
82.5°	421.3	396.1	405.0	437.8	675.4	812.8	775.5	724.8	872.7	690.3
85°	233.1	276.5	288.4	316.8	519.9	679.8	642.6	578.2	518.5	509.6
87.5°	139.0	164.4	168.8	189.8	349.7	491.6	434.8	412.4	342.2	340.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)