

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: P193193

Luminaire Tested: **GLEON-AF-05-LED-E1-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193193
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-05-LED-E1-T3-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 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: 28778.9 lumens
Efficiency: N/A
Efficacy: 103.2 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): 279
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



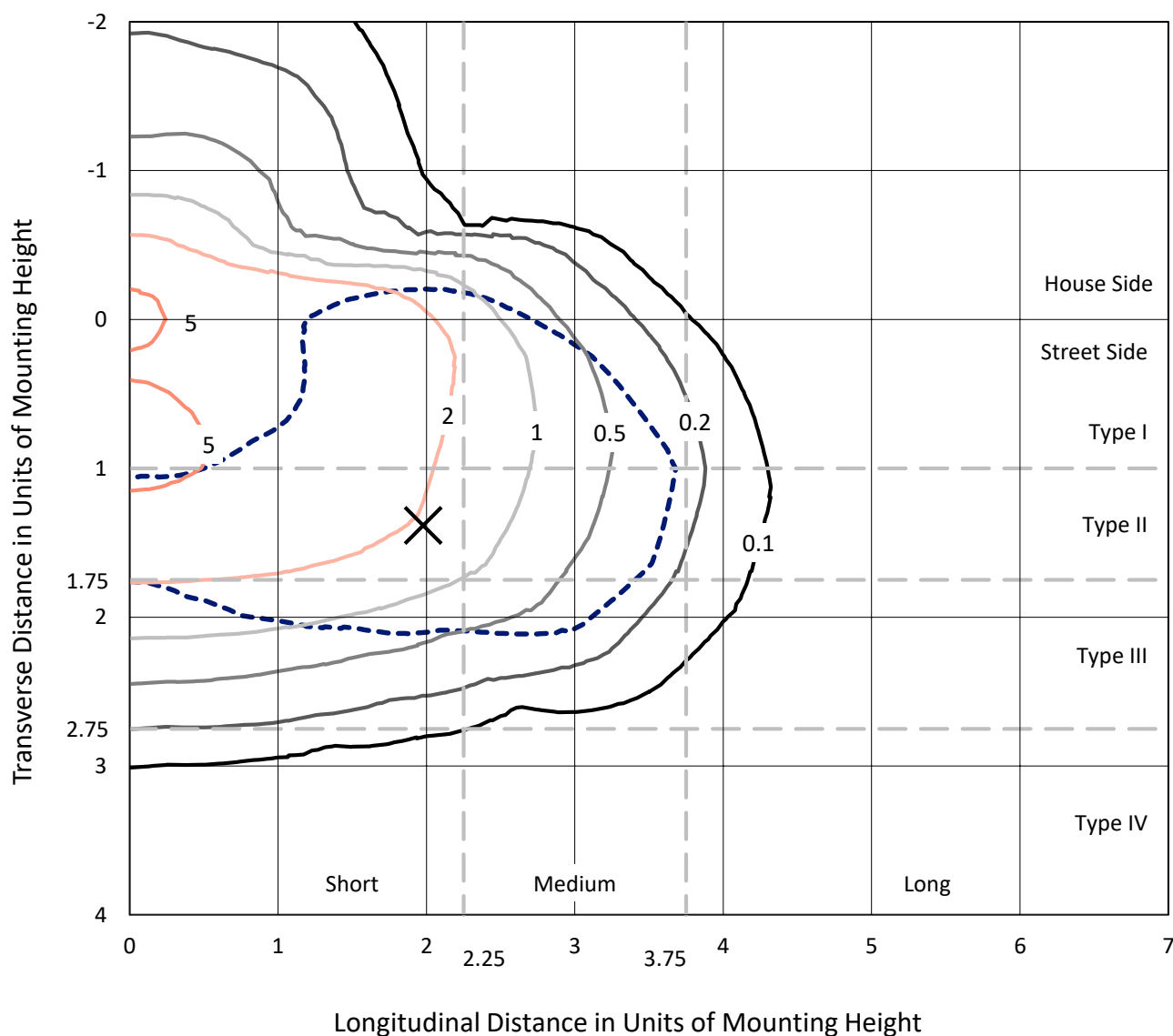
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

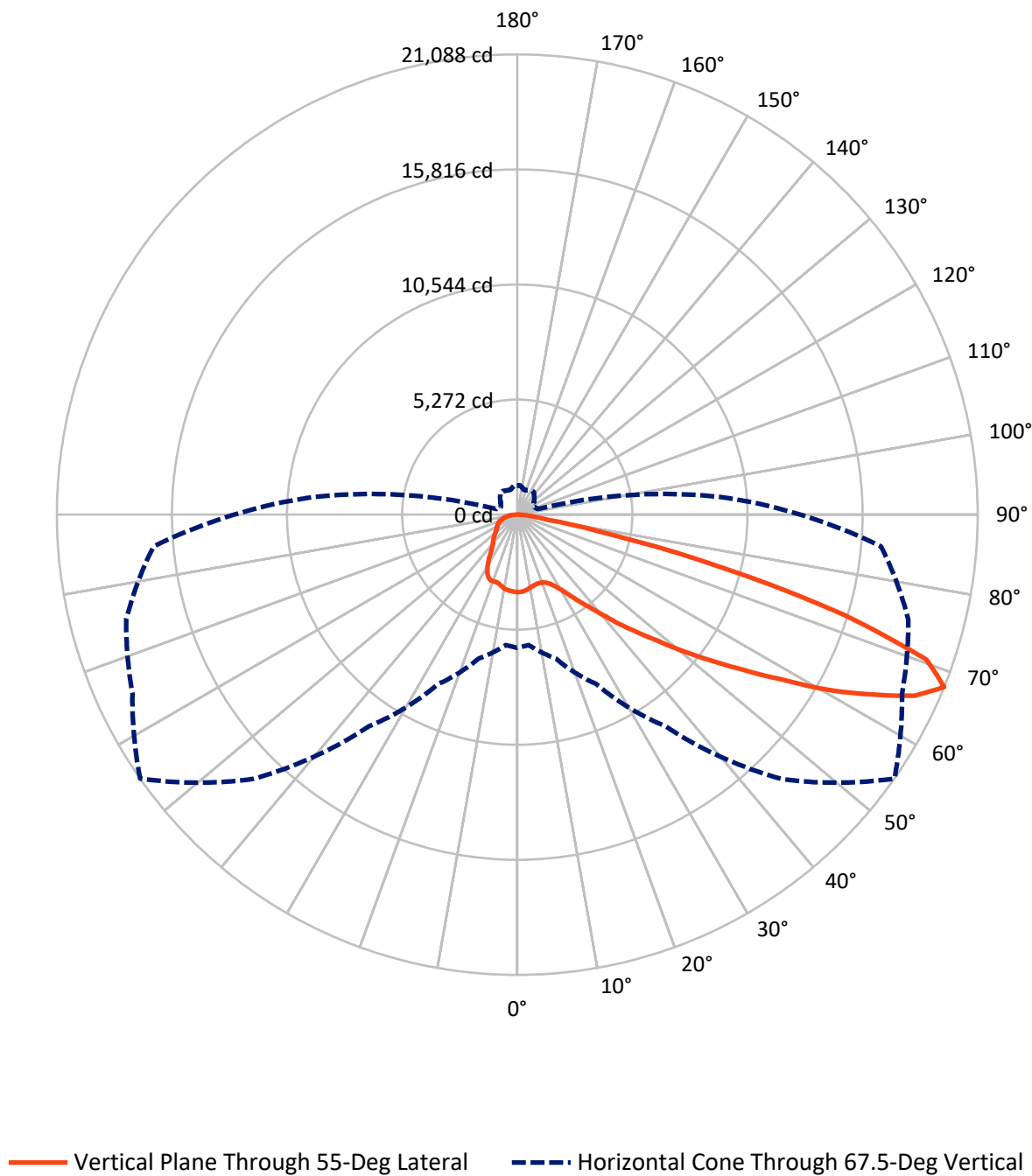


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6216.8	0.0	6216.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	22562.0	0.0	22562.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	28778.9	0.0	28778.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.2	1.2
10°-20°	938.1	3.3
20°-30°	1571.5	5.5
30°-40°	2584.2	9.0
40°-50°	4349.9	15.1
50°-60°	6846.5	23.8
60°-70°	8170.5	28.4
70°-80°	3508.6	12.2
80°-90°	478.4	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°	28778.9	100.0
0°-180°	28778.9	100.0

Coefficient of Utilization



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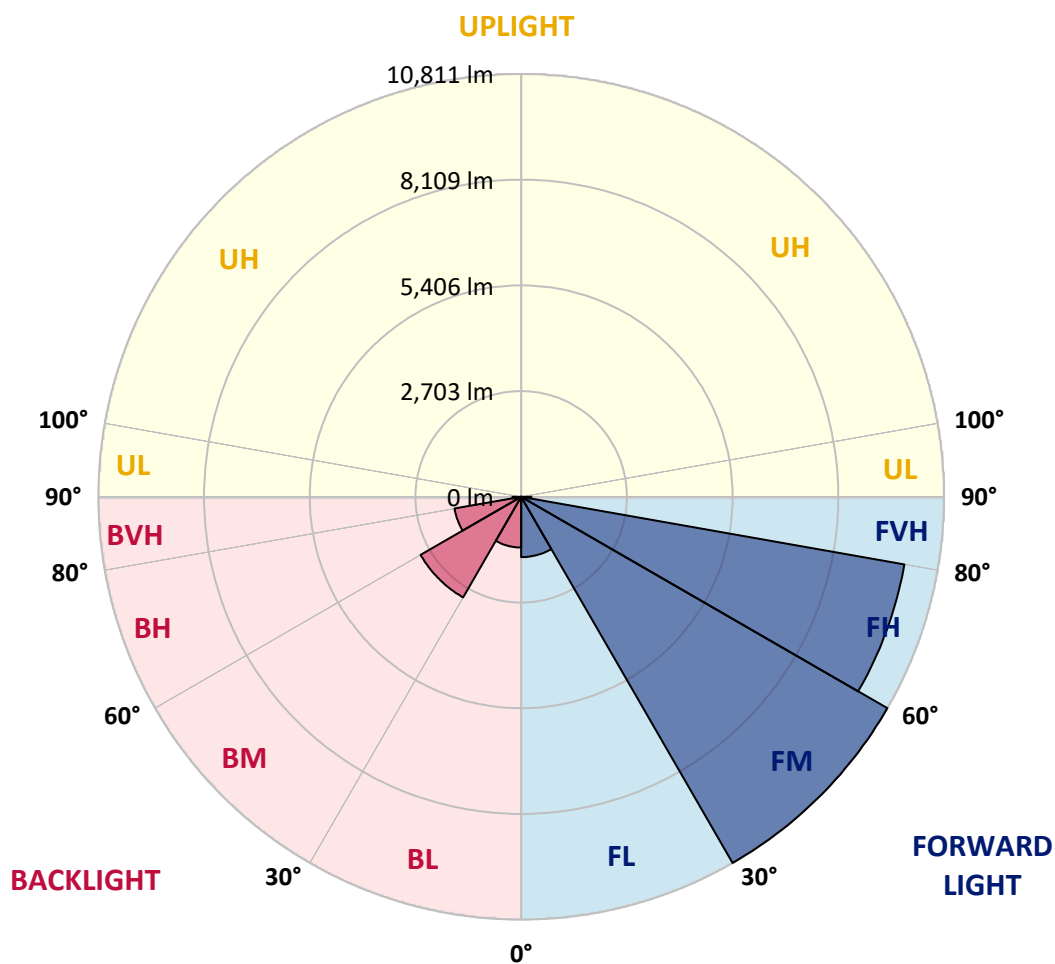
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1542.6	5.4			
FM	(30°-60°)	10811.5	37.6			
FH	(60°-80°)	9949.0	34.6			G4/12000
FVH	(80°-90°)	258.9	0.9			G3/500
BL	(0°-30°)	1298.2	4.5	B3/2500		
BM	(30°-60°)	2969.1	10.3	B3/5000		
BH	(60°-80°)	1730.1	6.0	B3/2500		G3/2500
BVH	(80°-90°)	219.4	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°	3548.7	3548.7	3548.7	3548.7	3548.7	3548.7	3548.7	3548.7	3548.7	3548.7	3548.7
2.5°	3518.1	3519.6	3522.3	3533.5	3543.2	3540.4	3541.7	3536.2	3534.9	3526.6	3534.9
5°	3473.7	3477.8	3479.3	3497.3	3508.5	3511.3	3507.0	3500.1	3491.7	3483.4	3487.5
7.5°	3372.2	3383.3	3384.8	3409.8	3427.8	3451.5	3452.8	3454.2	3450.1	3444.5	3452.8
10°	3308.3	3311.1	3309.7	3327.7	3341.5	3368.0	3383.3	3409.8	3420.9	3423.6	3429.2
12.5°	3304.1	3301.4	3297.1	3297.1	3293.0	3304.1	3331.9	3369.4	3395.9	3404.2	3411.2
15°	3348.6	3347.1	3333.3	3312.4	3286.1	3277.7	3301.4	3343.0	3377.7	3395.9	3402.8
17.5°	3448.7	3440.3	3418.0	3370.8	3313.9	3291.6	3294.3	3329.1	3369.4	3393.0	3400.0
20°	3632.1	3632.1	3584.9	3496.0	3394.4	3341.5	3316.6	3337.5	3376.4	3408.4	3418.0
22.5°	3949.0	3951.9	3872.5	3726.8	3555.8	3443.1	3380.6	3376.4	3422.2	3458.4	3469.5
25°	4398.0	4387.0	4275.8	4067.2	3807.2	3621.1	3512.5	3487.5	3526.6	3566.8	3580.8
27.5°	4920.7	4880.4	4748.3	4496.8	4160.4	3887.9	3721.2	3680.8	3718.3	3764.2	3778.0
30°	5437.9	5396.1	5239.0	4963.7	4589.9	4245.2	4006.1	3940.8	3993.5	4058.9	4067.2
32.5°	5954.8	5954.8	5779.7	5458.7	5051.4	4671.9	4385.5	4307.6	4395.3	4474.5	4492.6
35°	6573.5	6576.2	6406.6	6020.1	5582.4	5180.6	4865.1	4808.2	4940.1	4995.8	5038.8
37.5°	7333.8	7349.1	7131.0	6663.8	6184.3	5761.7	5386.4	5308.6	5440.6	5592.1	5731.0
40°	8155.3	8174.8	7934.3	7358.8	6879.3	6437.2	6031.3	5890.9	6110.6	6399.8	6579.0
42.5°	8939.3	9039.3	8807.3	8215.1	7699.4	7242.0	6830.7	6626.2	6901.5	7338.0	7493.6
45°	10072.2	10144.5	9739.9	9203.5	8718.3	8206.8	7661.8	7446.3	7831.4	8382.0	8413.8
47.5°	10826.9	10772.8	10567.0	10233.4	9926.2	9448.0	8627.8	8391.6	8903.1	9550.9	9371.6
50°	11228.7	11245.4	11217.5	11237.0	11248.1	10947.9	9812.2	9488.4	10098.7	10881.1	10468.3
52.5°	11604.0	11492.8	11584.5	12040.5	12590.9	12479.7	11100.7	10763.0	11380.2	12357.3	11627.6
55°	11595.6	11426.2	11724.9	12529.8	13723.8	13851.7	12547.8	12158.6	12735.5	13940.6	12856.4
57.5°	11185.6	11193.9	11654.0	12707.7	14513.4	15141.5	14226.9	13643.2	14172.8	15544.8	13978.2
60°	10621.2	10697.7	11360.8	12678.5	15145.7	16199.5	16287.0	15243.1	15580.9	17002.8	14906.7
62.5°	9710.8	9791.4	10706.0	12375.5	15049.9	17218.2	18149.6	17058.4	17052.8	17887.0	15179.2
65°	8274.9	8251.3	9211.7	11242.6	14245.0	17971.7	19999.8	18627.8	18162.1	17900.8	14631.5
67.5°	6102.2	5996.5	6820.8	8562.6	11840.3	17127.9	21088.1	19445.2	18540.2	16723.4	12957.9
70°	3166.5	3060.9	3728.0	4999.9	7786.9	13368.0	19883.0	19022.6	17704.8	14018.5	10151.4
72.5°	1353.9	1335.8	1606.8	2193.5	3767.0	7710.5	15590.6	16465.0	15191.6	10444.7	6979.4
75°	910.4	904.8	1006.4	1195.4	1694.5	3128.9	9756.7	11687.4	11114.7	6476.2	3925.4
77.5°	714.4	707.6	767.3	859.0	1098.2	1234.3	4330.0	6274.6	5807.5	2819.0	1718.1
80°	558.8	553.2	590.8	640.8	789.5	778.5	1424.7	2496.5	1932.1	1080.0	835.4
82.5°	440.7	440.7	471.2	472.6	560.2	531.0	743.6	1099.4	964.6	629.7	511.6
85°	403.0	403.0	435.1	353.0	365.6	335.0	461.5	651.9	611.7	258.5	222.5
87.5°	202.9	197.4	365.6	312.8	198.8	177.9	225.2	315.5	339.1	143.1	111.2
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°	3548.7	3548.7	3548.7	3548.7	3548.7	3548.7	3548.7	3548.7	3548.7	3548.7
2.5°	3532.1	3530.7	3533.5	3534.9	3546.0	3561.3	3568.2	3577.9	3583.4	3580.8
5°	3490.4	3493.1	3504.3	3512.5	3532.1	3557.1	3571.0	3582.1	3591.8	3587.6
7.5°	3455.7	3462.5	3479.3	3486.3	3497.3	3504.3	3502.9	3507.0	3515.4	3505.7
10°	3436.2	3444.5	3457.0	3447.2	3420.9	3383.3	3348.6	3330.6	3336.1	3329.1
12.5°	3416.6	3427.8	3418.0	3372.2	3298.5	3249.9	3223.4	3226.3	3238.8	3241.5
15°	3405.6	3409.8	3368.0	3281.8	3206.8	3199.8	3213.8	3211.0	3212.3	3212.3
17.5°	3405.6	3394.4	3316.6	3230.5	3198.4	3186.0	3142.9	3088.6	3065.0	3056.6
20°	3423.6	3394.4	3299.9	3243.0	3173.4	3066.4	2952.4	2852.3	2807.9	2795.4
22.5°	3477.8	3427.8	3347.1	3248.5	3051.2	2871.8	2691.0	2571.5	2490.9	2477.0
25°	3587.6	3532.1	3440.3	3174.8	2856.5	2600.7	2395.1	2261.5	2181.0	2169.9
27.5°	3779.5	3743.3	3490.4	3012.2	2597.9	2324.2	2133.8	2030.8	1971.0	1966.8
30°	4068.6	4050.6	3465.3	2771.7	2279.7	2055.8	1964.2	1904.4	1859.8	1858.5
32.5°	4530.1	4384.1	3383.3	2478.4	1989.2	1865.4	1827.9	1791.8	1757.0	1757.0
35°	5123.6	4653.8	3227.6	2164.3	1812.6	1759.7	1712.5	1655.5	1609.6	1606.8
37.5°	5821.5	4820.6	2948.3	1911.3	1729.2	1688.9	1619.4	1534.5	1454.0	1440.0
40°	6526.2	4870.7	2554.9	1755.6	1676.4	1618.0	1533.2	1433.2	1355.3	1351.1
42.5°	7172.6	4774.7	2137.8	1648.6	1623.6	1545.7	1456.8	1367.8	1306.6	1305.2
45°	7714.7	4525.9	1787.6	1547.1	1568.0	1480.4	1401.1	1328.9	1281.6	1271.9
47.5°	8224.8	4174.2	1541.5	1440.0	1512.3	1444.2	1377.5	1309.4	1263.6	1256.6
50°	8817.0	3794.8	1369.1	1335.8	1463.7	1431.8	1397.0	1326.1	1249.6	1241.3
52.5°	9534.2	3466.7	1234.3	1244.0	1426.2	1448.4	1447.0	1373.4	1239.9	1228.8
55°	10334.9	3102.5	1132.9	1169.0	1410.9	1479.1	1459.4	1417.8	1248.3	1231.6
57.5°	11123.0	2677.2	1062.0	1112.0	1388.6	1476.2	1399.7	1339.9	1267.7	1244.0
60°	11713.8	2105.9	1007.8	1062.0	1339.9	1430.3	1334.4	1255.2	1263.6	1245.4
62.5°	11752.7	1627.8	942.5	1018.9	1266.4	1384.5	1291.3	1217.7	1281.6	1264.9
65°	11061.9	1230.1	879.9	967.5	1187.1	1355.3	1249.6	1196.8	1319.1	1301.1
67.5°	9313.3	989.7	827.1	914.6	1107.9	1294.0	1212.1	1177.4	1352.5	1320.5
70°	6723.6	843.7	775.6	850.7	1037.0	1224.6	1178.8	1142.7	1262.2	1212.1
72.5°	4139.5	731.2	717.3	765.9	982.8	1152.3	1128.7	1077.3	1137.1	1096.8
75°	2066.9	633.8	651.9	682.6	906.3	1070.3	1045.3	993.8	1002.2	993.8
77.5°	989.7	542.2	575.5	599.1	807.7	977.3	950.8	898.0	888.3	889.6
80°	626.9	453.1	485.1	501.8	721.4	868.7	842.4	789.5	900.8	835.4
82.5°	392.0	368.3	376.7	407.3	628.2	756.2	721.4	674.1	811.8	642.2
85°	216.9	257.2	268.2	294.7	483.7	632.5	597.7	538.0	482.4	473.9
87.5°	129.3	152.9	157.2	176.6	325.3	457.4	404.5	383.6	318.3	317.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)