

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: P299190

Luminaire Tested: **GLNA-AF-06-LED-E1-T3-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299190
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: GLNA-AF-06-LED-E1-T3-7060-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28668.9 lumens
Efficiency: N/A
Efficacy: 115.1 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

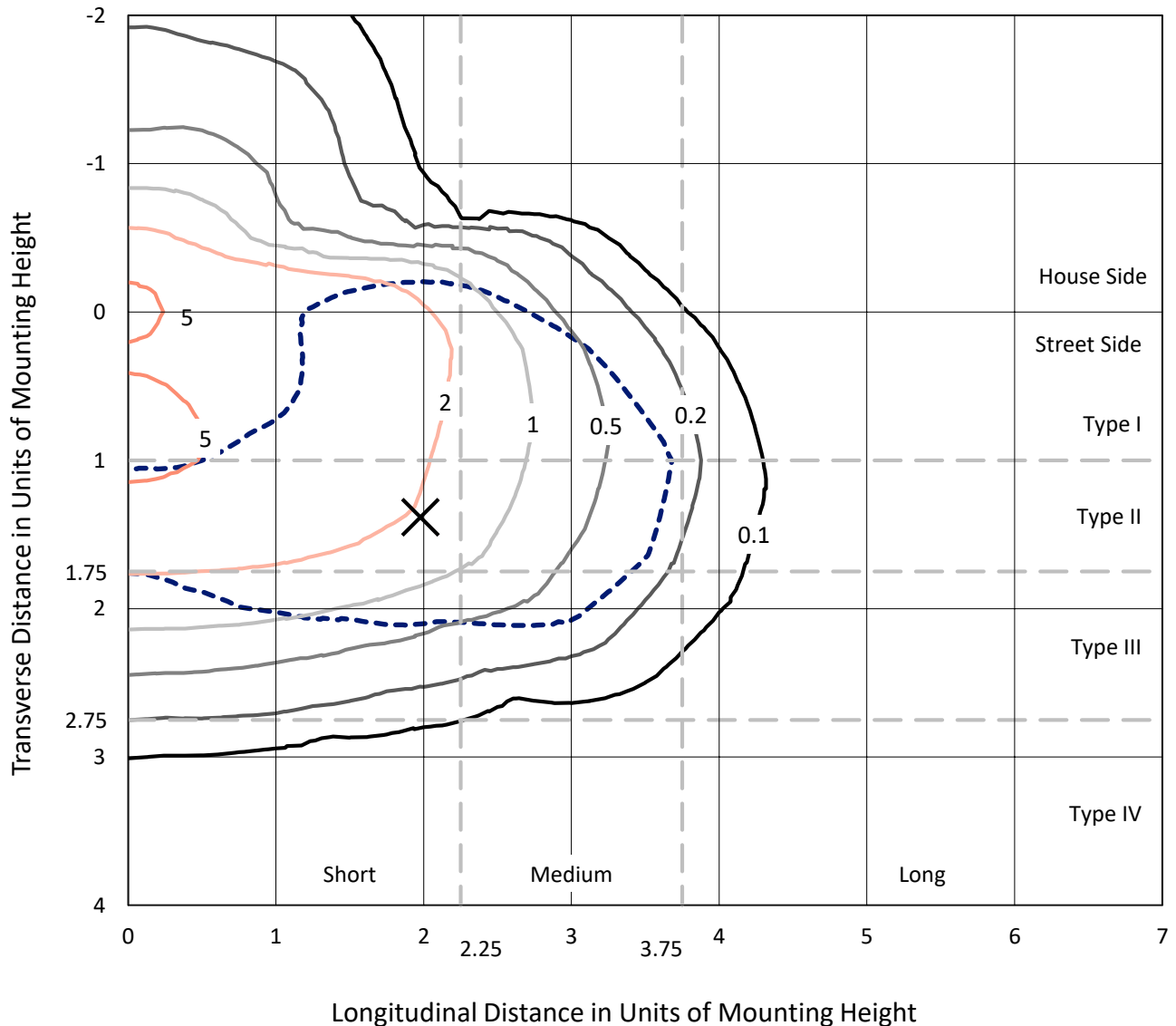
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P299190
 CATALOG NUMBER: GLNA-AF-06-LED-E1-T3-7060-800

Iso-Footcandle Lines of Horizontal Illumination

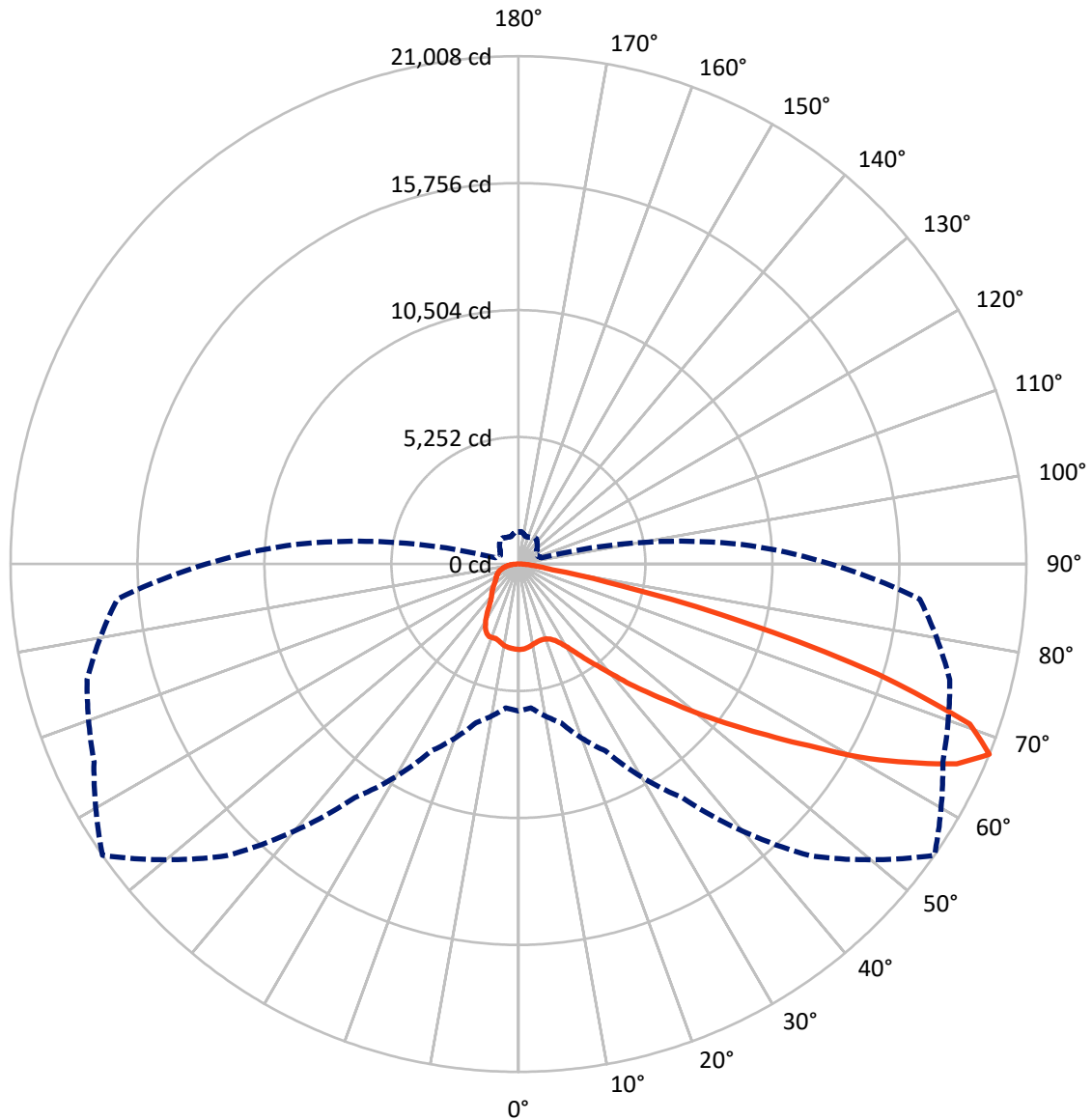
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P299190
CATALOG NUMBER: GLNA-AF-06-LED-E1-T3-7060-800

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P299190

CATALOG NUMBER: GLNA-AF-06-LED-E1-T3-7060-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6193.1	0.0	6193.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	22475.8	0.0	22475.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	28668.9	0.0	28668.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.0	1.2
10°-20°	934.5	3.3
20°-30°	1565.5	5.5
30°-40°	2574.3	9.0
40°-50°	4333.3	15.1
50°-60°	6820.3	23.8
60°-70°	8139.3	28.4
70°-80°	3495.2	12.2
80°-90°	476.5	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°	28668.9	100.0
0°-180°	28668.9	100.0



REPORT NUMBER: P299190

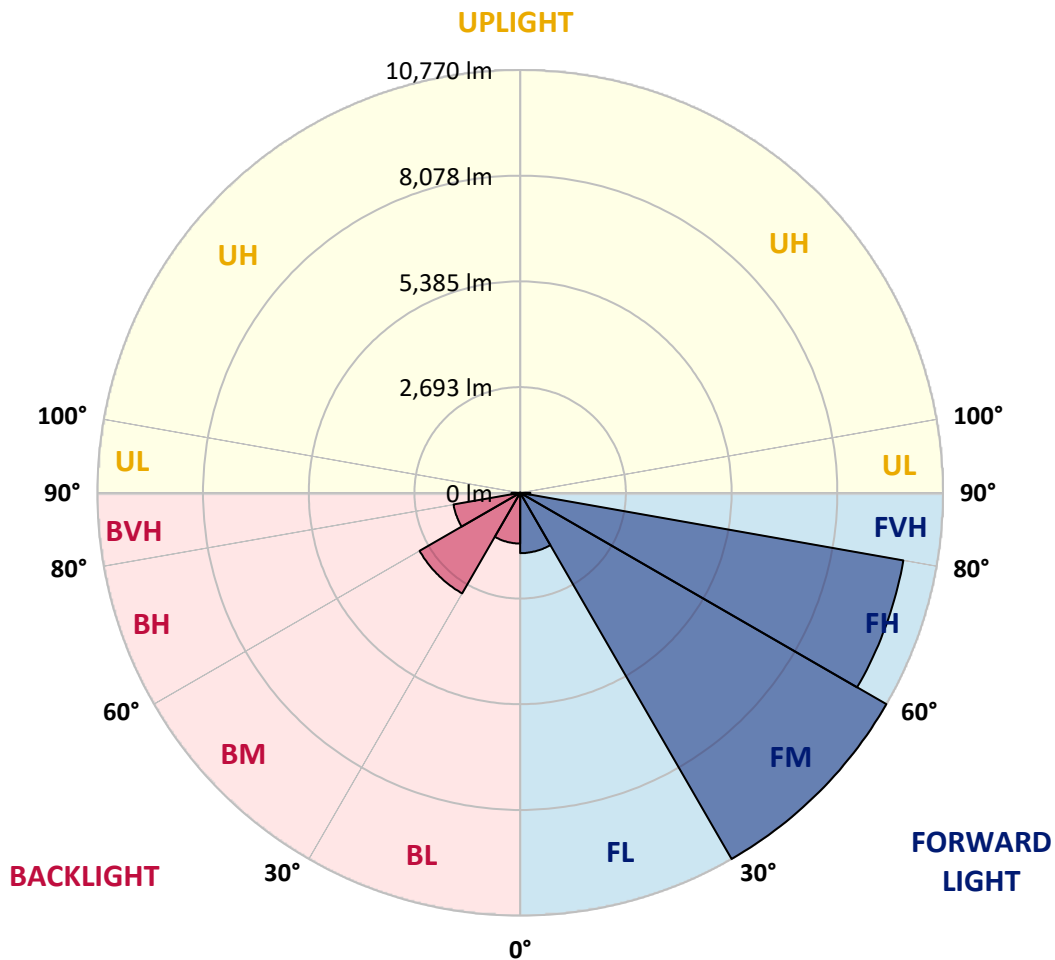
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1536.7	5.4			
FM	(30°-60°)	10770.2	37.6			
FH	(60°-80°)	9911.0	34.6			G4/12000
FVH	(80°-90°)	258.0	0.9			G3/500
BL	(0°-30°)	1293.2	4.5	B3/2500		
BM	(30°-60°)	2957.8	10.3	B3/5000		
BH	(60°-80°)	1723.5	6.0	B3/2500		G3/2500
BVH	(80°-90°)	218.6	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





REPORT NUMBER: P299190

CATALOG NUMBER: GLNA-AF-06-LED-E1-T3-7060-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2
2.5°	3504.7	3506.1	3508.9	3520.0	3529.6	3526.9	3528.3	3522.7	3521.3	3513.0	3521.3
5°	3460.4	3464.6	3466.0	3484.0	3495.0	3497.8	3493.6	3486.7	3478.4	3470.1	3474.3
7.5°	3359.3	3370.4	3371.8	3396.7	3414.7	3438.3	3439.6	3441.0	3436.9	3431.3	3439.6
10°	3295.6	3298.4	3297.0	3315.0	3328.9	3355.2	3370.4	3396.7	3407.8	3410.6	3416.1
12.5°	3291.5	3288.7	3284.6	3284.6	3280.4	3291.5	3319.2	3356.6	3382.9	3391.2	3398.1
15°	3335.8	3334.4	3320.6	3299.8	3273.5	3265.2	3288.7	3330.3	3364.9	3382.9	3389.8
17.5°	3435.5	3427.2	3405.0	3357.9	3301.2	3279.0	3281.8	3316.4	3356.6	3380.1	3387.0
20°	3618.3	3618.3	3571.2	3482.6	3381.5	3328.9	3303.9	3324.7	3363.5	3395.3	3405.0
22.5°	3934.0	3936.8	3857.8	3712.4	3542.1	3429.9	3367.6	3363.5	3409.2	3445.2	3456.3
25°	4381.3	4370.2	4259.4	4051.7	3792.7	3607.2	3499.2	3474.3	3513.0	3553.2	3567.0
27.5°	4901.9	4861.7	4730.2	4479.6	4144.5	3873.1	3706.9	3666.7	3704.1	3749.8	3763.7
30°	5417.0	5375.5	5219.0	4944.8	4572.3	4228.9	3990.8	3925.7	3978.3	4043.4	4051.7
32.5°	5932.1	5932.1	5757.7	5437.8	5032.1	4654.0	4368.8	4291.2	4378.5	4457.4	4475.4
35°	6548.3	6551.1	6382.2	5997.2	5561.0	5160.8	4846.5	4789.7	4921.3	4976.7	5019.6
37.5°	7305.8	7321.0	7103.6	6638.3	6160.6	5739.7	5365.8	5288.2	5419.8	5570.7	5709.2
40°	8124.1	8143.5	7904.0	7330.7	6853.0	6412.6	6008.3	5868.4	6087.2	6375.2	6553.9
42.5°	8905.1	9004.8	8773.6	8183.7	7670.0	7214.4	6804.5	6601.0	6875.1	7309.9	7465.0
45°	10033.7	10105.7	9702.7	9168.2	8685.0	8175.4	7632.6	7417.9	7801.5	8349.9	8381.7
47.5°	10785.6	10731.6	10526.6	10194.3	9888.3	9411.9	8959.0	8359.6	8869.1	9514.4	9335.8
50°	11185.8	11202.4	11174.7	11194.1	11205.1	10906.0	9774.7	9452.1	10060.0	10839.6	10428.3
52.5°	11559.6	11448.9	11540.3	11994.4	12542.8	12432.0	11058.4	10721.9	11336.7	12310.2	11583.2
55°	11551.3	11382.4	11680.1	12481.9	13671.3	13798.7	12499.9	12112.1	12686.8	13887.4	12807.3
57.5°	11142.8	11151.1	11609.5	12659.1	14457.9	15083.7	14172.6	13591.0	14118.6	15485.3	13924.7
60°	10580.6	10656.8	11317.3	12630.0	15087.9	16137.5	16224.8	15184.8	15521.3	16937.9	14849.7
62.5°	9673.6	9754.0	10665.1	12328.2	14992.4	17152.5	18080.3	16993.3	16987.7	17818.6	15121.1
65°	8243.2	8219.7	9176.5	11199.6	14190.6	17903.0	19923.3	18556.6	18092.7	17832.4	14575.6
67.5°	6078.9	5973.7	6794.8	8529.9	11795.0	17062.5	21007.6	19370.8	18469.4	16659.6	12908.4
70°	3154.4	3049.2	3713.8	4980.8	7757.2	13316.8	19807.0	18949.9	17637.2	13964.9	10112.6
72.5°	1348.7	1330.7	1600.7	2185.1	3752.6	7681.0	15531.0	16402.0	15133.6	10404.8	6952.7
75°	907.0	901.5	1002.5	1190.9	1688.0	3117.0	9719.3	11642.7	11072.2	6451.4	3910.4
77.5°	711.7	704.8	764.4	855.8	1093.9	1229.6	4313.4	6250.6	5785.4	2808.2	1711.5
80°	556.7	551.1	588.5	638.4	786.5	775.4	1419.3	2487.0	1924.8	1075.9	832.2
82.5°	439.0	439.0	469.4	470.8	558.0	529.0	740.8	1095.3	961.0	627.3	509.6
85°	401.6	401.6	433.4	351.7	364.2	333.7	459.7	649.4	609.3	257.6	221.6
87.5°	202.2	196.6	364.2	311.6	198.0	177.2	224.3	314.3	337.9	142.6	110.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P299190

CATALOG NUMBER: GLNA-AF-06-LED-E1-T3-7060-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2
2.5°	3518.6	3517.2	3520.0	3521.3	3532.4	3547.7	3554.6	3564.3	3569.8	3567.0
5°	3477.0	3479.8	3490.9	3499.2	3518.6	3543.5	3557.3	3568.4	3578.1	3574.0
7.5°	3442.4	3449.3	3466.0	3472.9	3484.0	3490.9	3489.5	3493.6	3502.0	3492.3
10°	3423.0	3431.3	3443.8	3434.1	3407.8	3370.4	3335.8	3317.8	3323.3	3316.4
12.5°	3403.6	3414.7	3405.0	3359.3	3285.9	3237.5	3211.2	3213.9	3226.4	3229.2
15°	3392.6	3396.7	3355.2	3269.3	3194.5	3187.6	3201.5	3198.7	3200.1	3200.1
17.5°	3392.6	3381.5	3303.9	3218.1	3186.2	3173.8	3130.9	3076.8	3053.3	3045.0
20°	3410.6	3381.5	3287.3	3230.6	3161.3	3054.7	2941.1	2841.4	2797.1	2784.7
22.5°	3464.6	3414.7	3334.4	3236.1	3039.5	2860.8	2680.8	2561.7	2481.4	2467.6
25°	3574.0	3518.6	3427.2	3162.7	2845.6	2590.8	2385.9	2252.9	2172.6	2161.5
27.5°	3765.1	3729.0	3477.0	3000.7	2588.0	2315.3	2125.5	2023.1	1963.5	1959.4
30°	4053.1	4035.1	3452.1	2761.1	2270.9	2048.0	1956.6	1897.1	1852.8	1851.4
32.5°	4512.8	4367.4	3370.4	2469.0	1981.5	1858.3	1820.9	1784.9	1750.3	1750.3
35°	5104.1	4636.0	3215.3	2156.0	1805.7	1753.1	1706.0	1649.2	1603.5	1600.7
37.5°	5799.2	4802.2	2937.0	1904.0	1722.6	1682.4	1613.2	1528.7	1448.4	1434.6
40°	6501.3	4852.1	2545.1	1748.9	1670.0	1611.8	1527.3	1427.6	1350.1	1345.9
42.5°	7145.2	4756.5	2129.7	1642.3	1617.4	1539.8	1451.2	1362.6	1301.6	1300.3
45°	7685.2	4508.6	1780.7	1541.2	1562.0	1474.7	1395.8	1323.8	1276.7	1267.0
47.5°	8193.4	4158.3	1535.7	1434.6	1506.6	1438.7	1372.3	1304.4	1258.7	1251.8
50°	8783.3	3780.3	1363.9	1330.7	1458.1	1426.3	1391.6	1321.0	1244.9	1236.6
52.5°	9497.8	3453.5	1229.6	1239.3	1420.7	1442.9	1441.5	1368.1	1235.2	1224.1
55°	10295.4	3090.7	1128.5	1164.5	1405.5	1473.3	1454.0	1412.4	1243.5	1226.9
57.5°	11080.5	2667.0	1057.9	1107.8	1383.3	1470.6	1394.4	1334.9	1262.9	1239.3
60°	11669.0	2097.8	1003.9	1057.9	1334.9	1424.9	1329.3	1250.4	1258.7	1240.7
62.5°	11707.8	1621.5	938.8	1015.0	1261.5	1379.2	1286.4	1213.0	1276.7	1260.1
65°	11019.6	1225.5	876.5	963.8	1182.6	1350.1	1244.9	1192.2	1314.1	1296.1
67.5°	9277.6	985.9	823.9	911.1	1103.6	1289.2	1207.5	1172.9	1347.3	1315.5
70°	6697.9	840.5	772.7	847.4	1033.0	1219.9	1174.2	1138.2	1257.3	1207.5
72.5°	4123.7	728.4	714.5	763.0	979.0	1147.9	1124.4	1073.2	1132.7	1092.5
75°	2059.1	631.4	649.4	679.9	902.8	1066.2	1041.3	990.1	998.4	990.1
77.5°	985.9	540.0	573.3	596.8	804.5	973.5	947.1	894.5	884.8	886.2
80°	624.5	451.4	483.3	499.9	718.7	865.4	839.1	786.5	897.3	832.2
82.5°	390.5	367.0	375.3	405.7	625.9	753.3	718.7	671.6	808.7	639.7
85°	216.0	256.2	267.3	293.6	481.9	630.0	595.4	535.9	480.5	472.2
87.5°	128.8	152.3	156.5	175.9	324.0	455.6	403.0	382.2	317.1	315.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)