

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: P299186

Luminaire Tested: **GLNA-AF-06-LED-E1-T3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299186
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-T3-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27730.8 lumens
Efficiency: N/A
Efficacy: 111.4 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

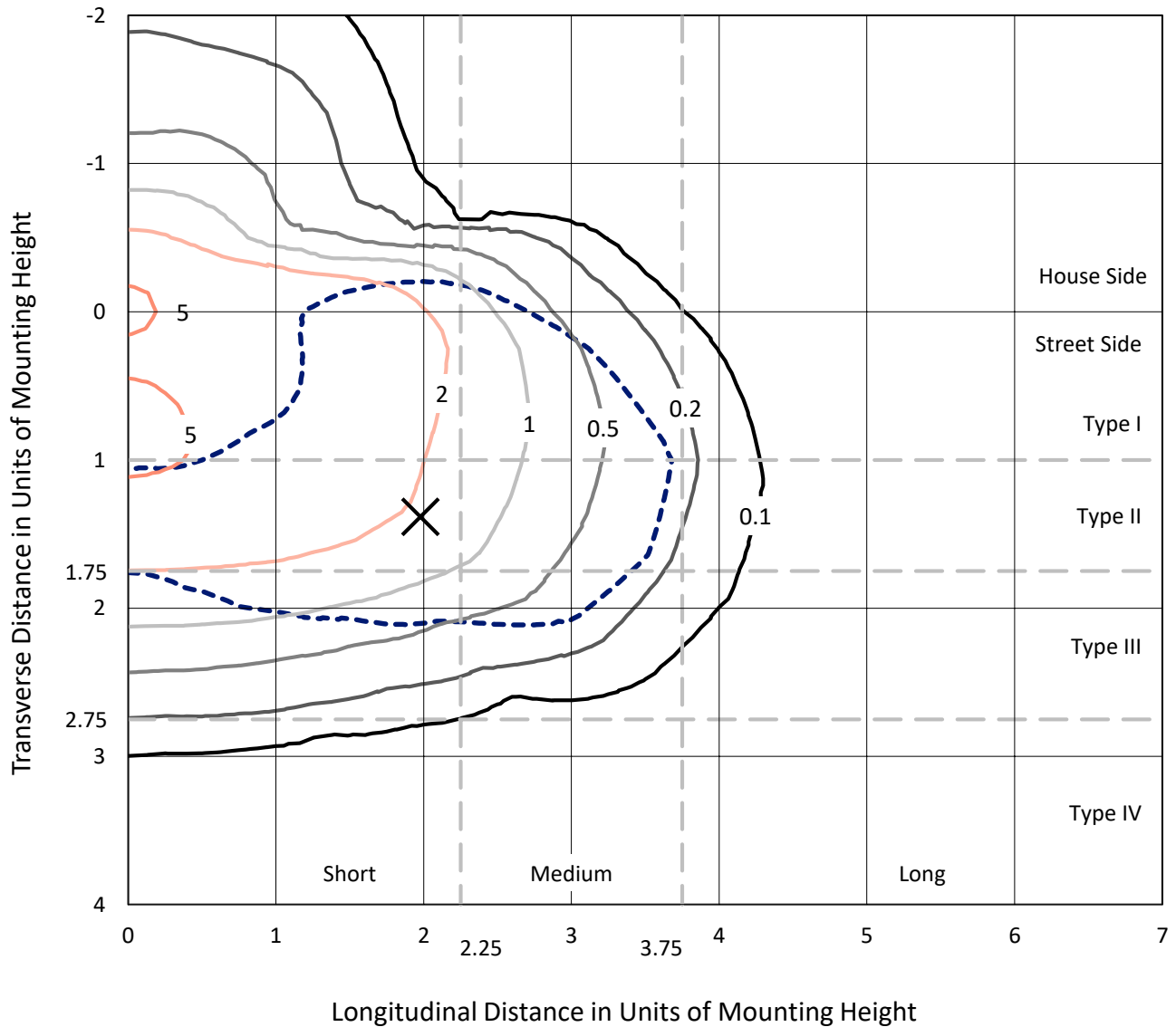
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P299186
 CATALOG NUMBER: GLNA-AF-06-LED-E1-T3-7030-800

Iso-Footcandle Lines of Horizontal Illumination

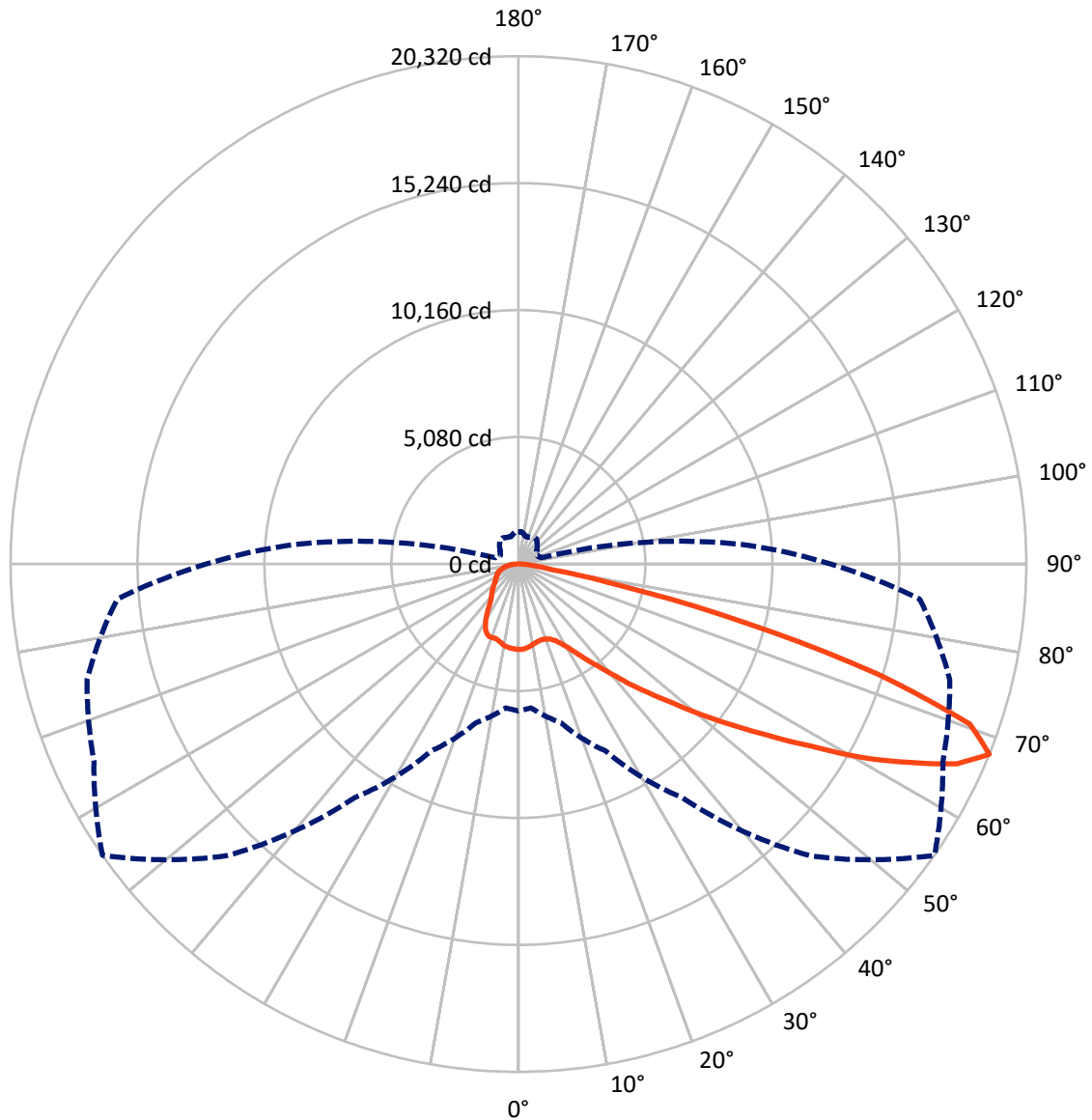
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P299186
CATALOG NUMBER: GLNA-AF-06-LED-E1-T3-7030-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P299186

CATALOG NUMBER: GLNA-AF-06-LED-E1-T3-7030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5990.4	0.0	5990.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	21740.4	0.0	21740.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	27730.8	0.0	27730.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.2	1.2
10°-20°	903.9	3.3
20°-30°	1514.2	5.5
30°-40°	2490.1	9.0
40°-50°	4191.5	15.1
50°-60°	6597.1	23.8
60°-70°	7873.0	28.4
70°-80°	3380.8	12.2
80°-90°	460.9	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°	27730.8	100.0
0°-180°	27730.8	100.0



REPORT NUMBER: P299186

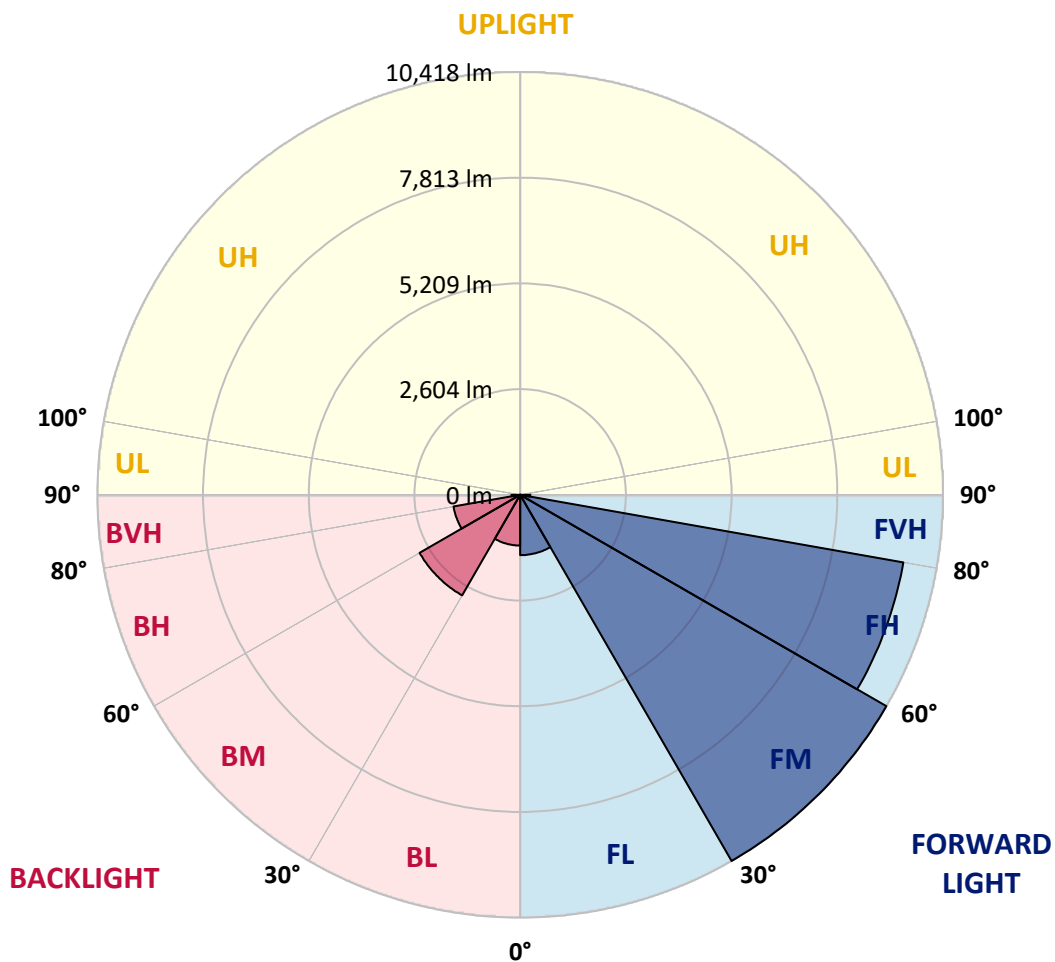
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1486.4	5.4			
FM	(30°-60°)	10417.7	37.6			
FH	(60°-80°)	9586.7	34.6			G4/12000
FVH	(80°-90°)	249.5	0.9			G3/500
BL	(0°-30°)	1250.9	4.5	B3/2500		
BM	(30°-60°)	2861.0	10.3	B3/5000		
BH	(60°-80°)	1667.1	6.0	B3/2500		G3/2500
BVH	(80°-90°)	211.4	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





REPORT NUMBER: P299186

CATALOG NUMBER: GLNA-AF-06-LED-E1-T3-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3419.5	3419.5	3419.5	3419.5	3419.5	3419.5	3419.5	3419.5	3419.5	3419.5	3419.5
2.5°	3390.0	3391.4	3394.1	3404.8	3414.2	3411.5	3412.8	3407.5	3406.1	3398.1	3406.1
5°	3347.2	3351.2	3352.5	3370.0	3380.7	3383.4	3379.3	3372.6	3364.6	3356.6	3360.6
7.5°	3249.4	3260.1	3261.5	3285.6	3303.0	3325.8	3327.1	3328.4	3324.4	3319.1	3327.1
10°	3187.8	3190.5	3189.1	3206.5	3219.9	3245.4	3260.1	3285.6	3296.3	3299.0	3304.3
12.5°	3183.8	3181.1	3177.1	3177.1	3173.1	3183.8	3210.6	3246.7	3272.2	3280.2	3286.9
15°	3226.6	3225.3	3211.9	3191.8	3166.4	3158.3	3181.1	3221.3	3254.8	3272.2	3278.9
17.5°	3323.1	3315.0	3293.6	3248.1	3193.2	3171.7	3174.4	3207.9	3246.7	3269.5	3276.2
20°	3499.9	3499.9	3454.3	3368.6	3270.8	3219.9	3195.8	3215.9	3253.4	3284.2	3293.6
22.5°	3805.3	3807.9	3731.6	3591.0	3426.2	3317.7	3257.4	3253.4	3297.6	3332.5	3343.2
25°	4237.9	4227.2	4120.0	3919.1	3668.6	3489.2	3384.7	3360.6	3398.1	3436.9	3450.3
27.5°	4741.5	4702.7	4575.4	4333.0	4008.9	3746.3	3585.6	3546.8	3582.9	3627.1	3640.5
30°	5239.8	5199.6	5048.2	4783.0	4422.7	4090.6	3860.2	3797.2	3848.1	3911.1	3919.1
32.5°	5738.0	5738.0	5569.3	5259.9	4867.4	4501.8	4225.8	4150.8	4235.2	4311.6	4329.0
35°	6334.1	6336.8	6173.3	5801.0	5379.1	4992.0	4687.9	4633.0	4760.3	4813.8	4855.4
37.5°	7066.7	7081.5	6871.2	6421.1	5959.0	5551.9	5190.2	5115.2	5242.5	5388.4	5522.4
40°	7858.3	7877.1	7645.4	7090.8	6628.7	6202.8	5811.7	5676.4	5888.0	6166.6	6339.4
42.5°	8613.7	8710.2	8486.5	7915.9	7419.0	6978.3	6581.9	6385.0	6650.2	7070.7	7220.8
45°	9705.4	9775.0	9385.2	8868.2	8400.8	7907.9	7382.8	7175.2	7546.2	8076.6	8107.5
47.5°	10432.7	10380.4	10182.2	9860.7	9564.7	9104.0	8313.7	8086.0	8578.9	9203.1	9030.3
50°	10819.8	10835.8	10809.0	10827.8	10838.5	10549.2	9454.9	9142.8	9730.8	10484.9	10087.1
52.5°	11181.4	11074.2	11162.6	11602.0	12132.4	12025.2	10696.5	10371.1	10965.8	11907.4	11204.2
55°	11173.4	11010.0	11297.9	12073.4	13224.0	13347.2	12090.9	11715.8	12271.7	13432.9	12388.2
57.5°	10778.2	10786.3	11229.6	12244.9	13984.8	14590.2	13708.9	13146.3	13656.6	14978.6	13469.1
60°	10234.4	10308.1	10947.0	12216.8	14594.2	15609.5	15693.9	14688.0	15013.5	16383.7	14363.8
62.5°	9357.1	9434.8	10316.1	11924.8	14501.8	16591.3	17488.7	16437.2	16431.9	17235.5	14626.4
65°	7973.5	7950.7	8876.3	10833.2	13726.3	17317.2	19271.4	17949.4	17500.7	17248.9	14098.6
67.5°	5880.0	5778.2	6572.5	8250.8	11409.1	16504.2	20320.2	18737.0	17865.1	16114.4	12486.0
70°	3051.2	2949.4	3592.3	4817.9	7503.4	12881.1	19158.9	18329.8	17060.1	13508.0	9781.7
72.5°	1304.6	1287.2	1548.4	2113.6	3629.8	7429.7	15022.8	15865.3	14638.4	10064.3	6725.2
75°	877.3	872.0	969.7	1151.9	1632.7	3015.0	9401.3	11261.8	10709.9	6240.3	3782.5
77.5°	688.5	681.8	739.4	827.8	1058.1	1189.4	4172.3	6046.1	5596.1	2716.3	1655.5
80°	538.4	533.1	569.2	617.5	760.8	750.1	1372.9	2405.6	1861.8	1040.7	805.0
82.5°	424.6	424.6	454.1	455.4	539.8	511.7	716.6	1059.5	929.6	606.8	492.9
85°	388.4	388.4	419.2	340.2	352.3	322.8	444.7	628.2	589.3	249.1	214.3
87.5°	195.6	190.2	352.3	301.4	191.5	171.4	217.0	304.0	326.8	138.0	107.2
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: P299186

CATALOG NUMBER: GLNA-AF-06-LED-E1-T3-7030-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3419.5	3419.5	3419.5	3419.5	3419.5	3419.5	3419.5	3419.5	3419.5	3419.5
2.5°	3403.4	3402.1	3404.8	3406.1	3416.8	3431.6	3438.3	3447.6	3453.0	3450.3
5°	3363.3	3365.9	3376.7	3384.7	3403.4	3427.6	3440.9	3451.7	3461.0	3457.0
7.5°	3329.8	3336.5	3352.5	3359.2	3370.0	3376.7	3375.3	3379.3	3387.4	3378.0
10°	3311.0	3319.1	3331.1	3321.7	3296.3	3260.1	3226.6	3209.2	3214.6	3207.9
12.5°	3292.3	3303.0	3293.6	3249.4	3178.4	3131.5	3106.1	3108.8	3120.8	3123.5
15°	3281.6	3285.6	3245.4	3162.3	3090.0	3083.3	3096.7	3094.0	3095.4	3095.4
17.5°	3281.6	3270.8	3195.8	3112.8	3082.0	3069.9	3028.4	2976.2	2953.4	2945.4
20°	3299.0	3270.8	3179.8	3124.8	3057.9	2954.7	2844.9	2748.5	2705.6	2693.6
22.5°	3351.2	3303.0	3225.3	3130.2	2940.0	2767.2	2593.1	2477.9	2400.2	2386.8
25°	3457.0	3403.4	3315.0	3059.2	2752.5	2506.0	2307.8	2179.2	2101.5	2090.8
27.5°	3641.9	3607.0	3363.3	2902.5	2503.4	2239.5	2056.0	1956.9	1899.3	1895.3
30°	3920.5	3903.0	3339.2	2670.8	2196.6	1981.0	1892.6	1835.0	1792.1	1790.8
32.5°	4365.1	4224.5	3260.1	2388.2	1916.7	1797.5	1761.3	1726.5	1693.0	1693.0
35°	4937.1	4484.3	3110.1	2085.5	1746.6	1695.7	1650.2	1595.2	1551.0	1548.4
37.5°	5609.5	4645.1	2840.9	1841.7	1666.2	1627.4	1560.4	1478.7	1401.0	1387.6
40°	6288.5	4693.3	2461.8	1691.7	1615.3	1559.1	1477.4	1380.9	1305.9	1301.9
42.5°	6911.4	4600.9	2060.0	1588.5	1564.4	1489.4	1403.7	1318.0	1259.0	1257.7
45°	7433.7	4361.1	1722.5	1490.8	1510.9	1426.5	1350.1	1280.5	1234.9	1225.6
47.5°	7925.3	4022.2	1485.4	1387.6	1457.3	1391.6	1327.4	1261.7	1217.5	1210.8
50°	8495.9	3656.6	1319.3	1287.2	1410.4	1379.6	1346.1	1277.8	1204.1	1196.1
52.5°	9187.0	3340.5	1189.4	1198.8	1374.2	1395.7	1394.3	1323.3	1194.8	1184.0
55°	9958.5	2989.6	1091.6	1126.4	1359.5	1425.1	1406.4	1366.2	1202.8	1186.7
57.5°	10718.0	2579.7	1023.3	1071.5	1338.1	1422.5	1348.8	1291.2	1221.5	1198.8
60°	11287.2	2029.2	971.1	1023.3	1291.2	1378.3	1285.8	1209.5	1217.5	1200.1
62.5°	11324.7	1568.4	908.1	981.8	1220.2	1334.1	1244.3	1173.3	1234.9	1218.9
65°	10659.0	1185.4	847.8	932.2	1143.9	1305.9	1204.1	1153.2	1271.1	1253.7
67.5°	8974.0	953.7	796.9	881.3	1067.5	1247.0	1168.0	1134.5	1303.2	1272.4
70°	6478.7	813.0	747.4	819.7	999.2	1180.0	1135.8	1101.0	1216.2	1168.0
72.5°	3988.8	704.5	691.1	738.0	947.0	1110.4	1087.6	1038.0	1095.6	1056.8
75°	1991.7	610.8	628.2	657.7	873.3	1031.3	1007.2	957.7	965.7	957.7
77.5°	953.7	522.4	554.5	577.3	778.2	941.6	916.2	865.3	855.9	857.2
80°	604.1	436.6	467.5	483.5	695.2	837.1	811.7	760.8	867.9	805.0
82.5°	377.7	354.9	363.0	392.4	605.4	728.6	695.2	649.6	782.2	618.8
85°	208.9	247.8	258.5	284.0	466.1	609.4	575.9	518.4	464.8	456.7
87.5°	124.6	147.3	151.4	170.1	313.4	440.7	389.8	369.7	306.7	305.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)