

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: P299006

Luminaire Tested: **GLNA-AF-06-LED-E1-T2-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299006  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
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-T2-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22185.6 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G3

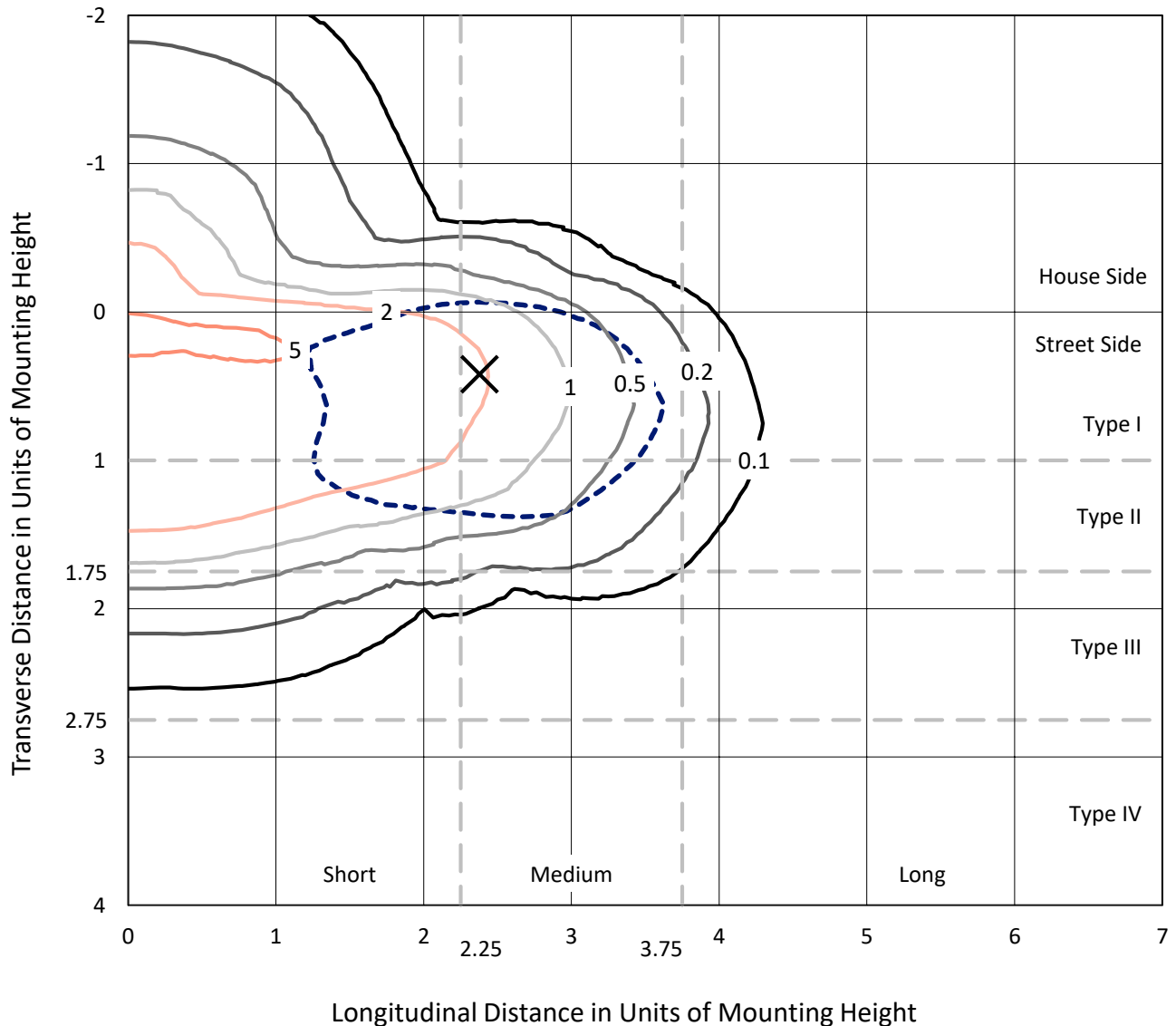
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

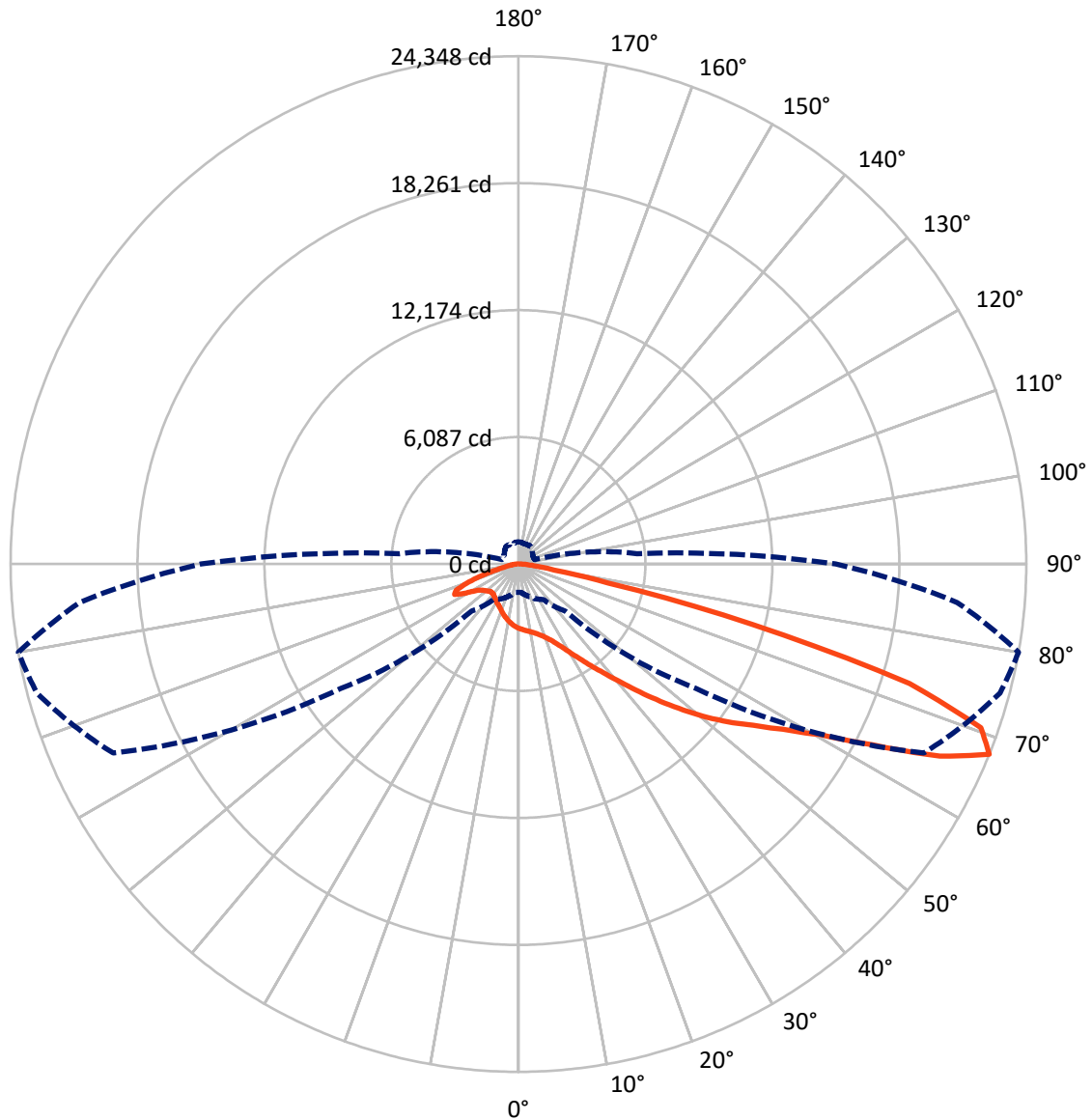


Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4085.7	0.0	4085.7
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	18099.9	0.0	18099.9
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	22185.6	0.0	22185.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.3	1.3
10°-20°	819.0	3.7
20°-30°	1355.7	6.1
30°-40°	2217.6	10.0
40°-50°	3580.5	16.1
50°-60°	5169.2	23.3
60°-70°	5704.5	25.7
70°-80°	2629.4	11.9
80°-90°	425.3	1.9
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°	22185.6	100.0
0°-180°	22185.6	100.0

**Coefficient of Utilization**



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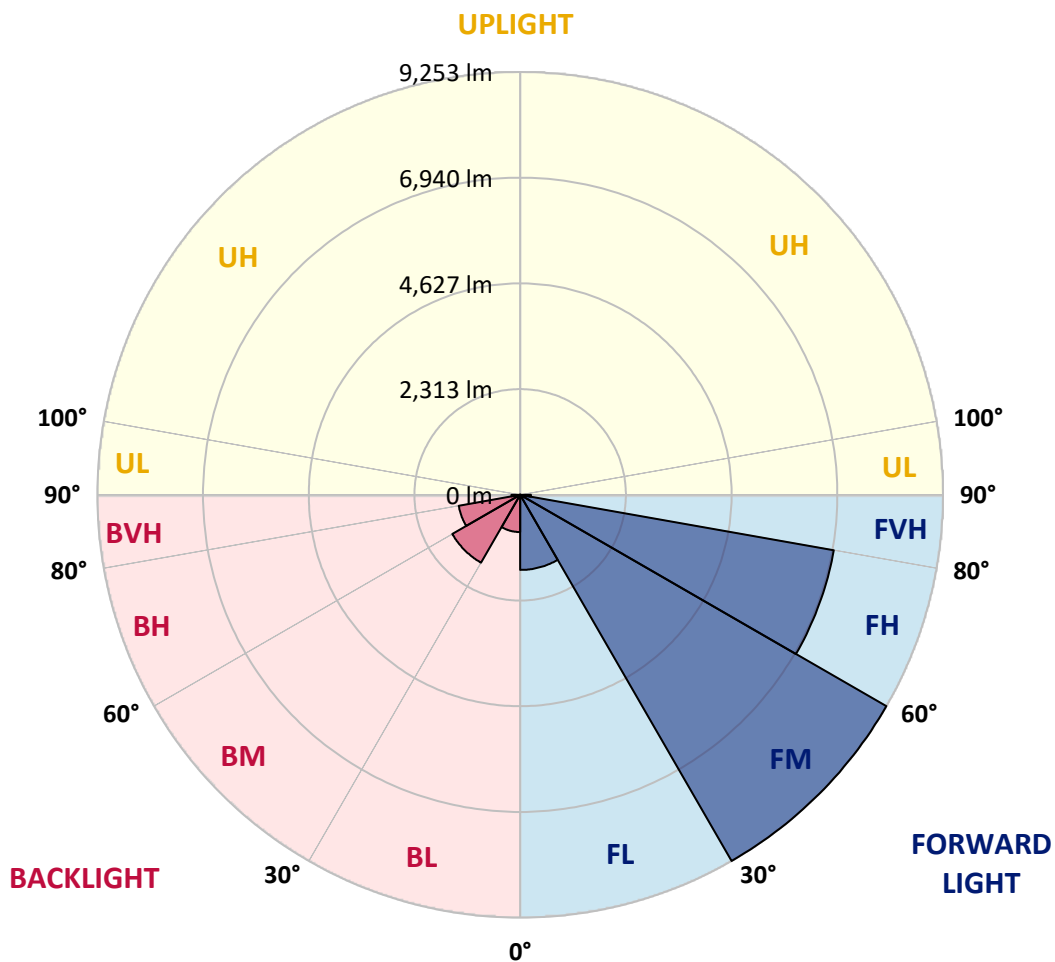
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1643.9	7.4			
FM (30°-60°)	9253.1	41.7			
FH (60°-80°)	6969.1	31.4			G3/7500
FVH (80°-90°)	233.8	1.1			G3/500
BL (0°-30°)	815.2	3.7	B2/1000		
BM (30°-60°)	1714.2	7.7	B2/2500		
BH (60°-80°)	1364.9	6.2	B3/2500		G3/2500
BVH (80°-90°)	191.5	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	3082.2	3082.2	3082.2	3082.2	3082.2	3082.2	3082.2	3082.2	3082.2	3082.2	3082.2
2.5°	3371.7	3352.0	3355.3	3349.8	3333.4	3305.0	3274.5	3218.8	3160.9	3130.3	3106.3
5°	3653.5	3648.0	3640.3	3622.9	3581.4	3522.4	3449.2	3350.9	3245.0	3189.3	3135.7
7.5°	3864.3	3861.0	3851.1	3840.2	3799.8	3728.8	3618.5	3478.7	3324.7	3248.2	3165.2
10°	3881.7	3887.2	3894.8	3924.3	3929.8	3891.6	3779.1	3609.8	3407.7	3309.4	3203.5
12.5°	3733.2	3745.2	3774.7	3850.1	3929.8	3976.8	3918.9	3747.4	3504.9	3385.9	3251.5
15°	3536.6	3543.1	3579.2	3682.9	3826.0	3971.3	4025.9	3899.2	3630.5	3484.2	3323.6
17.5°	3452.5	3455.8	3480.9	3549.7	3682.9	3890.5	4086.0	4064.1	3784.5	3606.5	3412.1
20°	3409.9	3417.5	3453.6	3521.3	3605.4	3786.7	4094.7	4242.2	3968.0	3759.4	3523.5
22.5°	3531.1	3527.9	3541.0	3574.8	3645.8	3755.0	4088.2	4425.7	4201.7	3956.0	3668.7
25°	3814.0	3826.0	3803.1	3764.9	3787.8	3864.3	4123.1	4624.4	4494.5	4208.3	3858.8
27.5°	4217.0	4205.0	4171.2	4081.6	4034.6	4067.4	4238.9	4838.5	4858.2	4540.3	4110.0
30°	4619.0	4609.1	4576.4	4467.2	4371.0	4343.7	4463.9	5084.3	5291.8	4939.0	4418.0
32.5°	5036.2	5025.3	4994.7	4885.5	4769.7	4706.4	4783.9	5368.2	5802.9	5415.2	4780.6
35°	5550.6	5529.9	5465.4	5313.6	5200.0	5150.9	5186.9	5725.4	6392.7	5978.8	5220.8
37.5°	6034.5	6066.2	6000.6	5790.9	5643.5	5626.0	5666.4	6161.2	7028.4	6609.0	5726.5
40°	6520.5	6526.0	6467.0	6295.5	6143.7	6115.3	6216.9	6689.8	7778.7	7362.6	6341.4
42.5°	7022.9	7033.9	6934.5	6776.1	6664.7	6670.2	6785.9	7309.1	8639.4	8250.6	7049.2
45°	7618.2	7634.6	7525.4	7317.8	7216.3	7420.5	7372.4	8003.7	9583.1	9259.8	7861.8
47.5°	8240.8	8265.9	8182.9	7988.5	7861.8	8142.5	7959.0	8773.8	10598.8	10342.2	8754.1
50°	8580.4	8616.5	8697.3	8683.1	8655.8	8608.8	8613.2	9599.5	11646.3	11469.3	9671.6
52.5°	8398.0	8396.9	8691.8	9050.1	9432.4	9460.8	9410.5	10470.0	12624.9	12571.4	10535.5
55°	7563.6	7620.4	8067.1	8760.6	9804.8	10456.9	10605.4	11467.2	13586.1	13648.3	11412.5
57.5°	6174.3	6221.3	6824.2	7790.8	9302.4	11048.8	12304.9	12916.5	14660.8	14951.3	12580.1
60°	4187.5	4244.3	4883.3	6044.3	7950.2	10719.0	13922.5	15502.9	15947.4	16608.2	14218.4
62.5°	2460.8	2512.1	3033.1	3812.9	5597.6	9186.6	14632.4	19182.6	17991.0	19108.3	16717.4
65°	1694.0	1729.0	1982.4	2373.4	3216.6	6187.4	13752.1	21723.0	21135.4	22205.8	19615.1
67.5°	1363.1	1358.7	1559.7	1826.2	2070.8	3190.4	10399.0	21435.8	23900.9	24347.6	21119.1
70°	1122.8	1118.4	1255.0	1475.6	1654.7	1796.7	5664.2	18089.3	23337.3	23518.6	19734.1
72.5°	939.3	943.7	1031.1	1194.9	1357.6	1353.3	2489.2	12725.4	18359.0	19612.9	15731.2
75°	792.9	795.1	853.0	968.8	1102.0	1090.0	1350.0	6894.1	10672.0	11544.7	8720.2
77.5°	675.0	677.2	714.3	778.7	873.8	869.4	985.2	2978.5	4451.9	4397.3	2982.8
80°	601.8	601.8	619.3	631.3	683.7	664.1	730.7	1430.8	1881.9	1737.7	1190.5
82.5°	471.8	474.0	581.1	576.7	538.5	513.3	513.3	843.2	997.2	921.8	696.8
85°	265.4	264.3	374.6	452.2	474.0	361.5	358.2	471.8	542.8	478.4	337.5
87.5°	113.6	115.8	173.7	201.0	268.7	225.0	221.7	243.6	276.3	239.2	156.2
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3082.2	3082.2	3082.2	3082.2	3082.2	3082.2	3082.2	3082.2	3082.2	3082.2	3082.2
2.5°	3083.3	3054.9	2992.7	2915.1	2845.2	2799.3	2757.8	2697.8	2701.0	2659.5	2629.0
5°	3081.1	3022.2	2878.0	2706.5	2541.6	2422.5	2333.0	2252.1	2232.5	2194.3	2171.3
7.5°	3083.3	2987.2	2744.7	2470.6	2266.3	2115.6	2039.2	1996.6	1986.7	1973.6	1974.7
10°	3091.0	2955.5	2598.4	2250.0	2035.9	1936.5	1917.9	1931.0	1946.3	1950.7	1951.8
12.5°	3108.4	2927.1	2437.8	2053.4	1891.7	1861.1	1892.8	1937.6	1967.1	1981.3	1980.2
15°	3147.8	2905.3	2283.8	1899.4	1812.0	1828.4	1887.3	1950.7	1993.3	2013.0	2014.0
17.5°	3190.4	2873.6	2125.4	1781.4	1753.0	1794.5	1867.7	1942.0	1994.4	2016.2	2020.6
20°	3246.1	2834.3	1959.4	1692.9	1697.3	1744.3	1813.1	1887.3	1945.2	1963.8	1972.5
22.5°	3319.2	2791.7	1814.2	1620.8	1634.0	1670.0	1723.5	1788.0	1838.2	1846.9	1854.6
25°	3417.5	2745.8	1698.4	1555.3	1560.8	1581.5	1617.6	1655.8	1690.7	1680.9	1688.6
27.5°	3549.7	2706.5	1612.1	1495.2	1485.4	1489.8	1508.3	1520.4	1538.9	1511.6	1514.9
30°	3704.8	2663.9	1545.5	1442.8	1415.5	1407.9	1412.2	1418.8	1433.0	1395.8	1390.4
32.5°	3885.0	2612.6	1483.2	1396.9	1358.7	1343.4	1345.6	1363.1	1417.7	1394.8	1382.7
35°	4094.7	2554.7	1417.7	1346.7	1320.5	1298.6	1296.5	1351.1	1513.8	1499.6	1488.7
37.5°	4340.5	2496.8	1352.2	1289.9	1292.1	1268.1	1260.4	1322.7	1532.4	1476.7	1469.0
40°	4652.8	2466.2	1296.5	1229.8	1257.1	1253.9	1238.6	1270.2	1410.0	1308.5	1295.4
42.5°	5039.5	2470.6	1255.0	1165.4	1215.6	1250.6	1226.6	1227.6	1277.9	1201.4	1189.4
45°	5516.8	2521.9	1225.5	1114.1	1168.7	1247.3	1222.2	1204.7	1209.1	1168.7	1162.1
47.5°	6073.8	2627.9	1204.7	1071.5	1123.9	1235.3	1221.1	1198.2	1188.3	1166.5	1161.0
50°	6693.1	2781.9	1189.4	1031.1	1083.5	1215.6	1222.2	1191.6	1180.7	1171.9	1168.7
52.5°	7301.5	2957.7	1166.5	996.1	1051.8	1191.6	1225.5	1185.1	1173.0	1166.5	1163.2
55°	7979.7	3177.3	1131.5	966.6	1025.6	1161.0	1225.5	1175.2	1162.1	1163.2	1162.1
57.5°	8896.1	3532.2	1090.0	941.5	993.9	1123.9	1204.7	1164.3	1147.9	1149.0	1150.1
60°	10328.0	4158.1	1039.8	916.4	954.6	1080.2	1176.3	1140.3	1123.9	1128.3	1129.3
62.5°	12433.8	5076.6	974.3	879.2	913.1	1033.2	1137.0	1109.7	1093.3	1104.2	1104.2
65°	14622.6	5887.0	893.4	832.3	869.4	981.9	1087.8	1071.5	1055.1	1080.2	1079.1
67.5°	15211.3	5705.7	812.6	780.9	825.7	925.1	1028.9	1020.1	1011.4	1055.1	1052.9
70°	13512.9	4580.7	738.3	728.5	777.7	863.9	965.5	965.5	960.1	992.8	985.2
72.5°	10295.2	3248.2	667.3	672.8	723.0	797.3	896.7	904.4	895.6	912.0	905.4
75°	5511.3	1858.9	596.3	611.6	655.3	729.6	820.3	827.9	822.4	821.3	824.6
77.5°	1831.6	908.7	522.1	546.1	584.3	659.7	740.5	752.5	739.4	737.2	736.2
80°	815.9	571.2	440.2	471.8	505.7	580.0	656.4	666.3	652.1	671.7	646.6
82.5°	524.3	375.7	352.8	387.7	420.5	500.2	572.3	574.5	561.4	652.1	555.9
85°	254.5	232.6	265.4	297.1	325.5	393.2	474.0	475.1	442.3	403.0	388.8
87.5°	126.7	135.4	176.9	205.3	219.5	269.8	345.1	338.6	324.4	294.9	272.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)