

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: P298885

Luminaire Tested: **GLNA-AF-06-LED-E1-T2-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298885  
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-T2-7027  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30250.3 lumens  
Efficiency: N/A  
Efficacy: 90.8 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 - G4

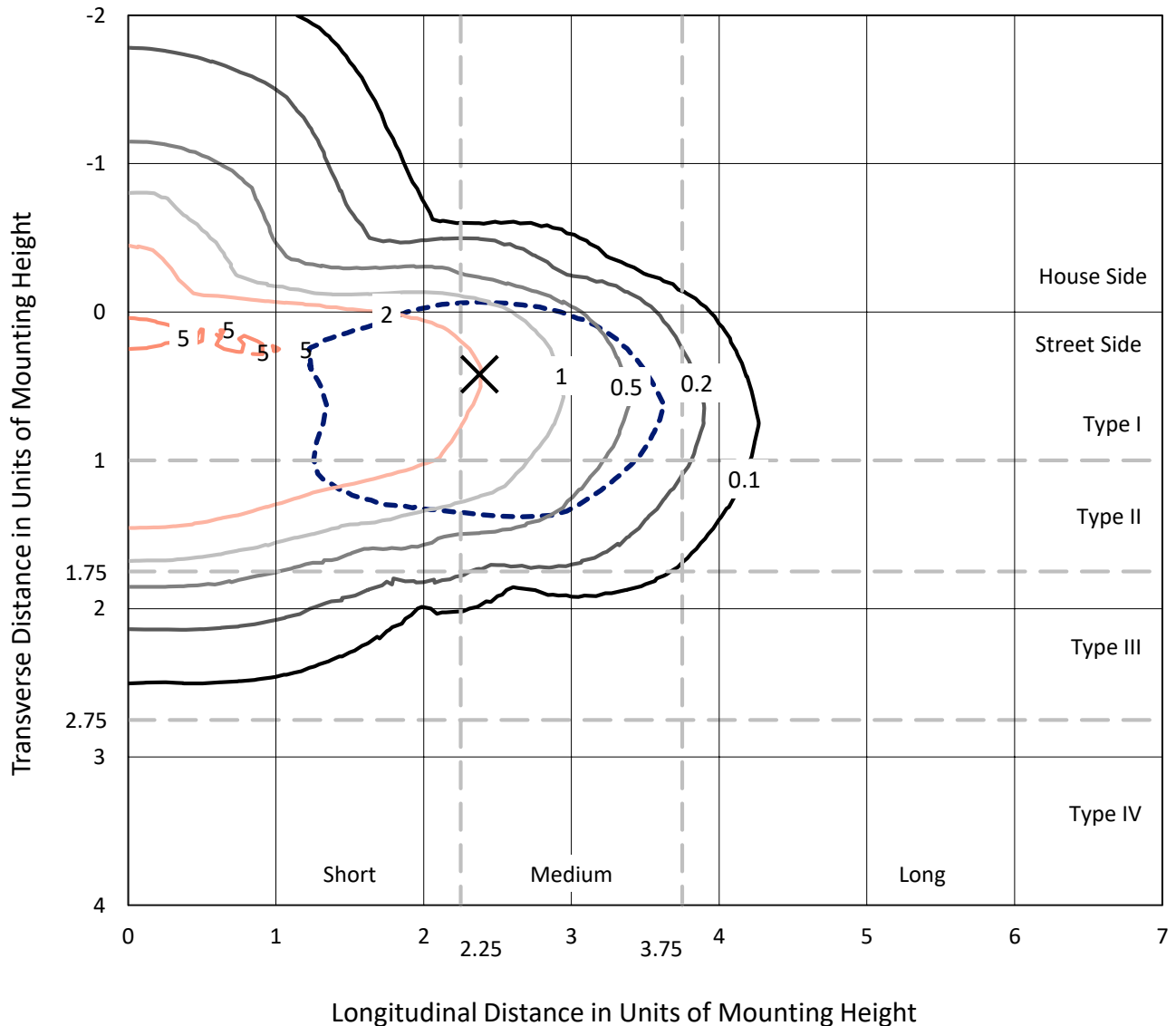
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

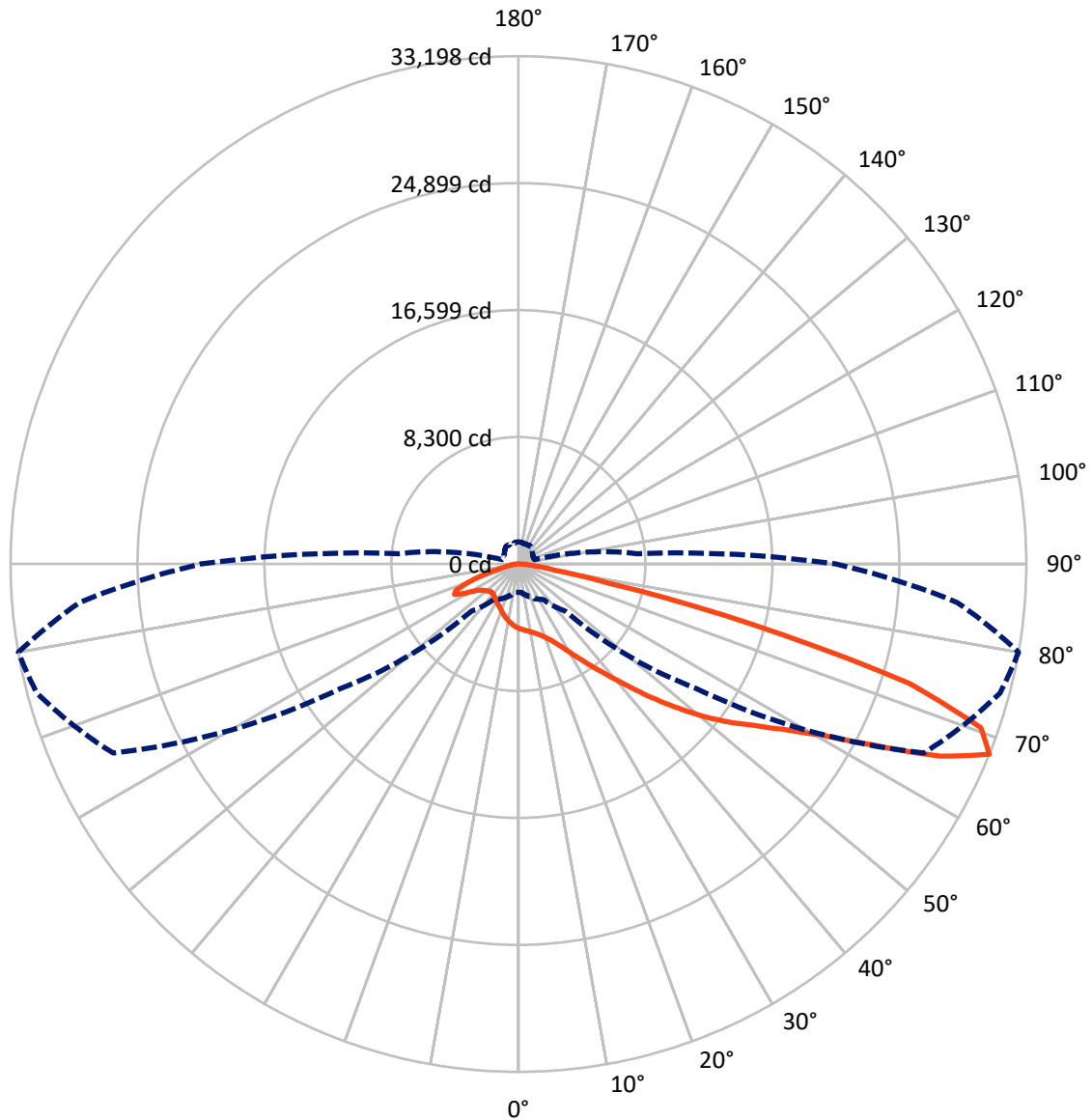
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 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	5570.9	0.0	5570.9
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	24679.3	0.0	24679.3
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	30250.3	0.0	30250.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	387.7	1.3
10°-20°	1116.8	3.7
20°-30°	1848.5	6.1
30°-40°	3023.7	10.0
40°-50°	4882.0	16.1
50°-60°	7048.2	23.3
60°-70°	7778.2	25.7
70°-80°	3585.3	11.9
80°-90°	579.9	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°	30250.3	100.0
0°-180°	30250.3	100.0



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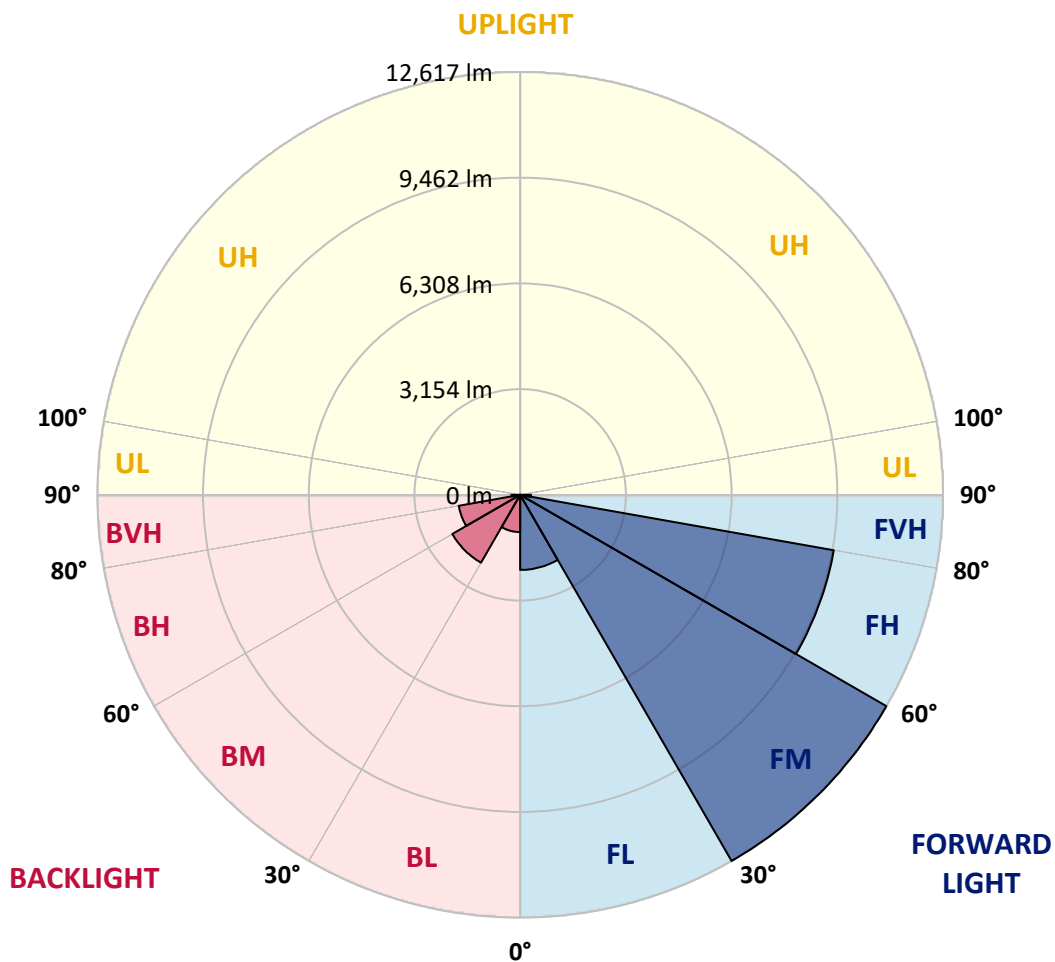
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2241.5	7.4			
FM (30°-60°)	12616.6	41.7			
FH (60°-80°)	9502.4	31.4			G4/12000
FVH (80°-90°)	318.8	1.1			G3/500
BL (0°-30°)	1111.5	3.7	B3/2500		
BM (30°-60°)	2337.4	7.7	B2/2500		
BH (60°-80°)	1861.0	6.2	B3/2500		G3/2500
BVH (80°-90°)	261.1	0.9			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6
2.5°	4597.3	4570.5	4575.0	4567.5	4545.2	4506.4	4464.7	4388.8	4309.9	4268.2	4235.4
5°	4981.5	4974.1	4963.6	4939.8	4883.2	4802.8	4703.0	4569.0	4424.5	4348.6	4275.6
7.5°	5268.9	5264.5	5251.1	5236.2	5181.1	5084.3	4933.9	4743.2	4533.3	4429.0	4315.8
10°	5292.8	5300.2	5310.6	5350.8	5358.3	5306.2	5152.8	4921.9	4646.4	4512.4	4367.9
12.5°	5090.2	5106.6	5146.8	5249.6	5358.3	5422.3	5343.4	5109.6	4779.0	4616.7	4433.5
15°	4822.2	4831.1	4880.2	5021.7	5216.8	5414.9	5489.3	5316.6	4950.2	4750.7	4531.8
17.5°	4707.5	4712.0	4746.2	4840.0	5021.7	5304.7	5571.3	5541.5	5160.2	4917.5	4652.4
20°	4649.4	4659.8	4709.0	4801.3	4916.0	5163.2	5583.2	5784.2	5410.4	5126.0	4804.3
22.5°	4814.7	4810.3	4828.1	4874.3	4971.1	5120.0	5574.2	6034.4	5729.1	5394.0	5002.4
25°	5200.4	5216.8	5185.5	5133.4	5164.7	5268.9	5621.9	6305.5	6128.2	5738.0	5261.5
27.5°	5750.0	5733.6	5687.4	5565.3	5501.3	5545.9	5779.7	6597.3	6624.1	6190.8	5604.0
30°	6298.0	6284.6	6239.9	6091.0	5959.9	5922.7	6086.5	6932.4	7215.4	6734.4	6024.0
32.5°	6866.9	6852.0	6810.3	6661.4	6503.5	6417.1	6522.9	7319.6	7912.3	7383.7	6518.4
35°	7568.3	7540.0	7452.2	7245.2	7090.3	7023.3	7072.4	7806.6	8716.5	8152.1	7118.6
37.5°	8228.1	8271.3	8181.9	7896.0	7694.9	7671.1	7726.2	8400.8	9583.3	9011.4	7808.1
40°	8890.8	8898.2	8817.8	8584.0	8377.0	8338.3	8476.8	9121.6	10606.4	10039.0	8646.5
42.5°	9575.8	9590.7	9455.2	9239.3	9087.4	9094.8	9252.7	9966.0	11779.9	11249.7	9611.6
45°	10387.5	10409.8	10260.9	9977.9	9839.4	10117.9	10052.4	10913.2	13066.6	12625.8	10719.6
47.5°	11236.3	11270.6	11157.4	10892.3	10719.6	11102.3	10852.1	11963.1	14451.6	14101.6	11936.3
50°	11699.5	11748.6	11858.8	11839.5	11802.2	11738.2	11744.2	13088.9	15879.8	15638.5	13187.2
52.5°	11450.8	11449.3	11851.4	12339.9	12861.1	12899.8	12831.3	14275.9	17214.1	17141.2	14365.2
55°	10313.0	10390.4	10999.5	11945.2	13368.9	14258.0	14460.5	15635.6	18524.7	18609.6	15561.1
57.5°	8418.7	8482.7	9304.8	10622.8	12683.9	15065.2	16777.8	17611.8	19990.1	20386.2	17153.1
60°	5709.8	5787.2	6658.4	8241.5	10840.2	14615.4	18983.4	21138.3	21744.4	22645.4	19387.0
62.5°	3355.3	3425.3	4135.6	5198.9	7632.4	12526.0	19951.4	26155.6	24530.8	26054.3	22794.3
65°	2309.8	2357.5	2703.0	3236.1	4385.8	8436.6	18751.0	29619.5	28818.3	30277.8	26745.3
67.5°	1858.6	1852.6	2126.6	2490.0	2823.6	4350.1	14179.1	29227.9	32589.1	33198.2	28796.0
70°	1530.9	1525.0	1711.1	2012.0	2256.2	2449.8	7723.2	24664.8	31820.6	32067.8	26907.6
72.5°	1280.7	1286.7	1405.8	1629.2	1851.1	1845.2	3394.0	17351.2	25032.7	26742.3	21449.6
75°	1081.2	1084.2	1163.1	1321.0	1502.6	1486.3	1840.7	9400.1	14551.4	15741.3	11890.1
77.5°	920.4	923.3	974.0	1061.8	1191.4	1185.4	1343.3	4061.2	6070.2	5995.7	4067.1
80°	820.6	820.6	844.4	860.8	932.3	905.5	996.3	1950.9	2566.0	2369.4	1623.3
82.5°	643.4	646.3	792.3	786.3	734.2	699.9	699.9	1149.7	1359.7	1256.9	950.1
85°	361.9	360.4	510.8	616.5	646.3	492.9	488.5	643.4	740.2	652.3	460.2
87.5°	154.9	157.9	236.8	274.0	366.4	306.8	302.3	332.1	376.8	326.1	213.0
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°	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6
2.5°	4204.1	4165.4	4080.5	3974.8	3879.5	3816.9	3760.3	3678.4	3682.9	3626.3	3584.6
5°	4201.2	4120.7	3924.2	3690.3	3465.5	3303.1	3181.0	3070.8	3044.0	2991.9	2960.6
7.5°	4204.1	4073.1	3742.5	3368.7	3090.2	2884.7	2780.4	2722.3	2708.9	2691.1	2692.5
10°	4214.6	4029.9	3542.9	3067.8	2775.9	2640.4	2615.1	2633.0	2653.8	2659.8	2661.3
12.5°	4238.4	3991.2	3324.0	2799.8	2579.4	2537.7	2580.9	2641.9	2682.1	2701.5	2700.0
15°	4292.0	3961.4	3114.0	2589.8	2470.7	2493.0	2573.4	2659.8	2717.9	2744.7	2746.2
17.5°	4350.1	3918.2	2898.1	2429.0	2390.2	2446.8	2546.6	2647.9	2719.4	2749.1	2755.1
20°	4426.0	3864.6	2671.7	2308.3	2314.3	2378.3	2472.1	2573.4	2652.3	2677.7	2689.6
22.5°	4525.8	3806.5	2473.6	2210.0	2227.9	2277.1	2350.0	2437.9	2506.4	2518.3	2528.7
25°	4659.8	3744.0	2315.8	2120.7	2128.1	2156.4	2205.6	2257.7	2305.3	2291.9	2302.4
27.5°	4840.0	3690.3	2198.1	2038.8	2025.4	2031.3	2056.6	2073.0	2098.3	2061.1	2065.6
30°	5051.5	3632.3	2107.3	1967.3	1930.1	1919.6	1925.6	1934.5	1953.9	1903.3	1895.8
32.5°	5297.2	3562.3	2022.4	1904.7	1852.6	1831.8	1834.7	1858.6	1933.0	1901.8	1885.4
35°	5583.2	3483.3	1933.0	1836.2	1800.5	1770.7	1767.7	1842.2	2064.1	2044.7	2029.8
37.5°	5918.2	3404.4	1843.7	1758.8	1761.8	1729.0	1718.6	1803.5	2089.4	2013.5	2003.0
40°	6344.2	3362.7	1767.7	1676.9	1714.1	1709.6	1688.8	1732.0	1922.6	1784.1	1766.2
42.5°	6871.4	3368.7	1711.1	1589.0	1657.5	1705.2	1672.4	1673.9	1742.4	1638.2	1621.8
45°	7522.2	3438.7	1670.9	1519.0	1593.5	1700.7	1666.5	1642.6	1648.6	1593.5	1584.6
47.5°	8281.7	3583.1	1642.6	1460.9	1532.4	1684.3	1665.0	1633.7	1620.3	1590.5	1583.1
50°	9126.1	3793.1	1621.8	1405.8	1477.3	1657.5	1666.5	1624.8	1609.9	1598.0	1593.5
52.5°	9955.6	4032.9	1590.5	1358.2	1434.1	1624.8	1670.9	1615.8	1599.4	1590.5	1586.0
55°	10880.4	4332.2	1542.9	1318.0	1398.4	1583.1	1670.9	1602.4	1584.6	1586.0	1584.6
57.5°	12129.9	4816.2	1486.3	1283.7	1355.2	1532.4	1642.6	1587.5	1565.2	1566.7	1568.2
60°	14082.3	5669.5	1417.8	1249.5	1301.6	1472.9	1603.9	1554.8	1532.4	1538.4	1539.9
62.5°	16953.5	6922.0	1328.4	1198.8	1245.0	1408.8	1550.3	1513.1	1490.7	1505.6	1505.6
65°	19938.0	8027.0	1218.2	1134.8	1185.4	1338.8	1483.3	1460.9	1438.6	1472.9	1471.4
67.5°	20740.7	7779.8	1108.0	1064.8	1125.9	1261.4	1402.9	1391.0	1379.0	1438.6	1435.6
70°	18424.9	6245.9	1006.7	993.3	1060.3	1178.0	1316.5	1316.5	1309.0	1353.7	1343.3
72.5°	14037.6	4429.0	909.9	917.4	985.9	1087.1	1222.7	1233.1	1221.2	1243.5	1234.6
75°	7514.7	2534.7	813.1	834.0	893.5	994.8	1118.4	1128.8	1121.4	1119.9	1124.4
77.5°	2497.5	1239.0	711.9	744.6	796.7	899.5	1009.7	1026.1	1008.2	1005.2	1003.7
80°	1112.5	778.9	600.2	643.4	689.5	790.8	895.0	908.4	889.1	915.9	881.6
82.5°	714.8	512.3	481.0	528.7	573.4	682.1	780.4	783.3	765.5	889.1	758.0
85°	347.0	317.2	361.9	405.1	443.8	536.1	646.3	647.8	603.1	549.5	530.2
87.5°	172.8	184.7	241.3	280.0	299.3	367.8	470.6	461.7	442.3	402.1	370.8
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)