

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: P298888

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298888
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
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34816.9 lumens
Efficiency: N/A
Efficacy: 104.6 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

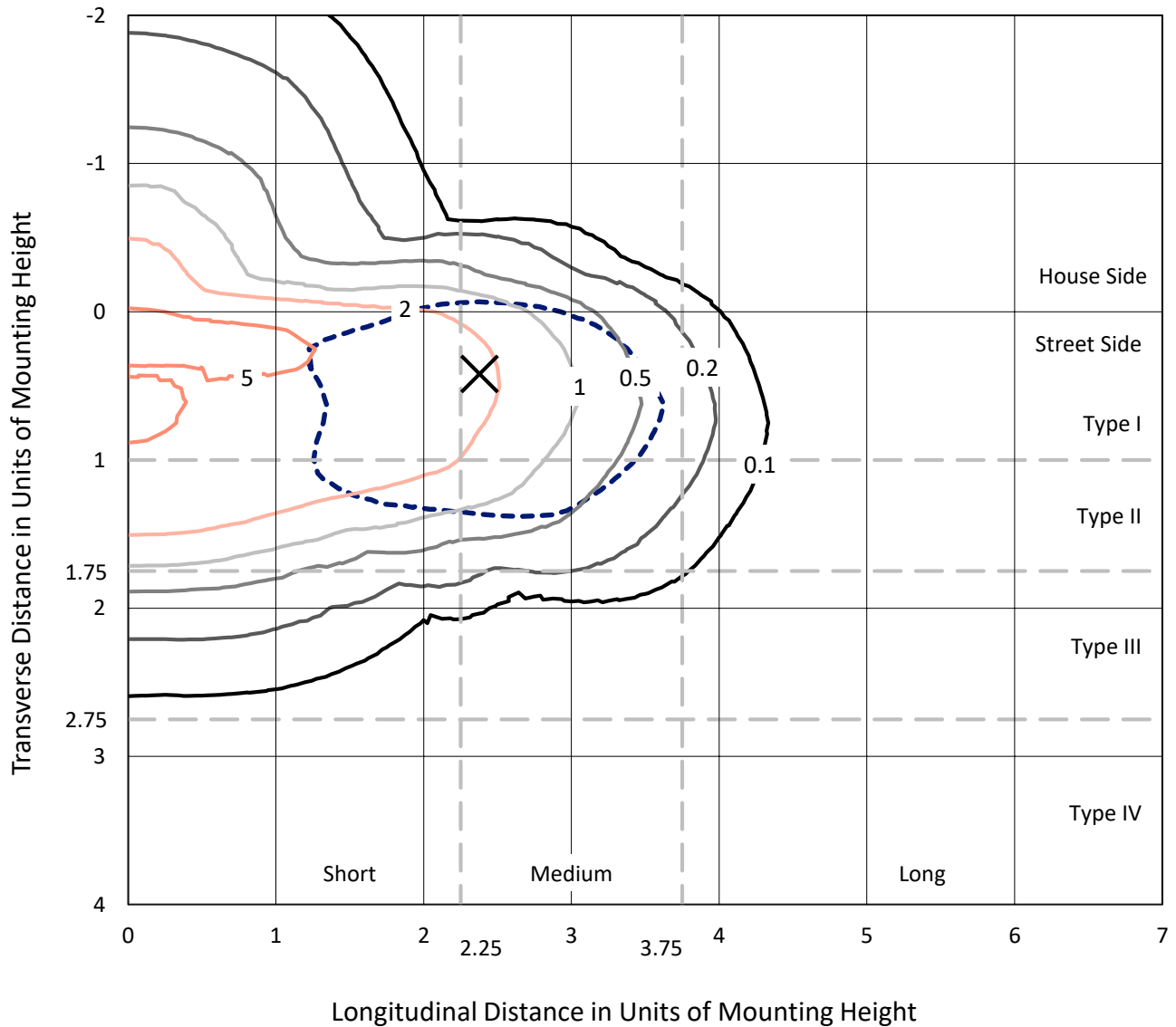


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

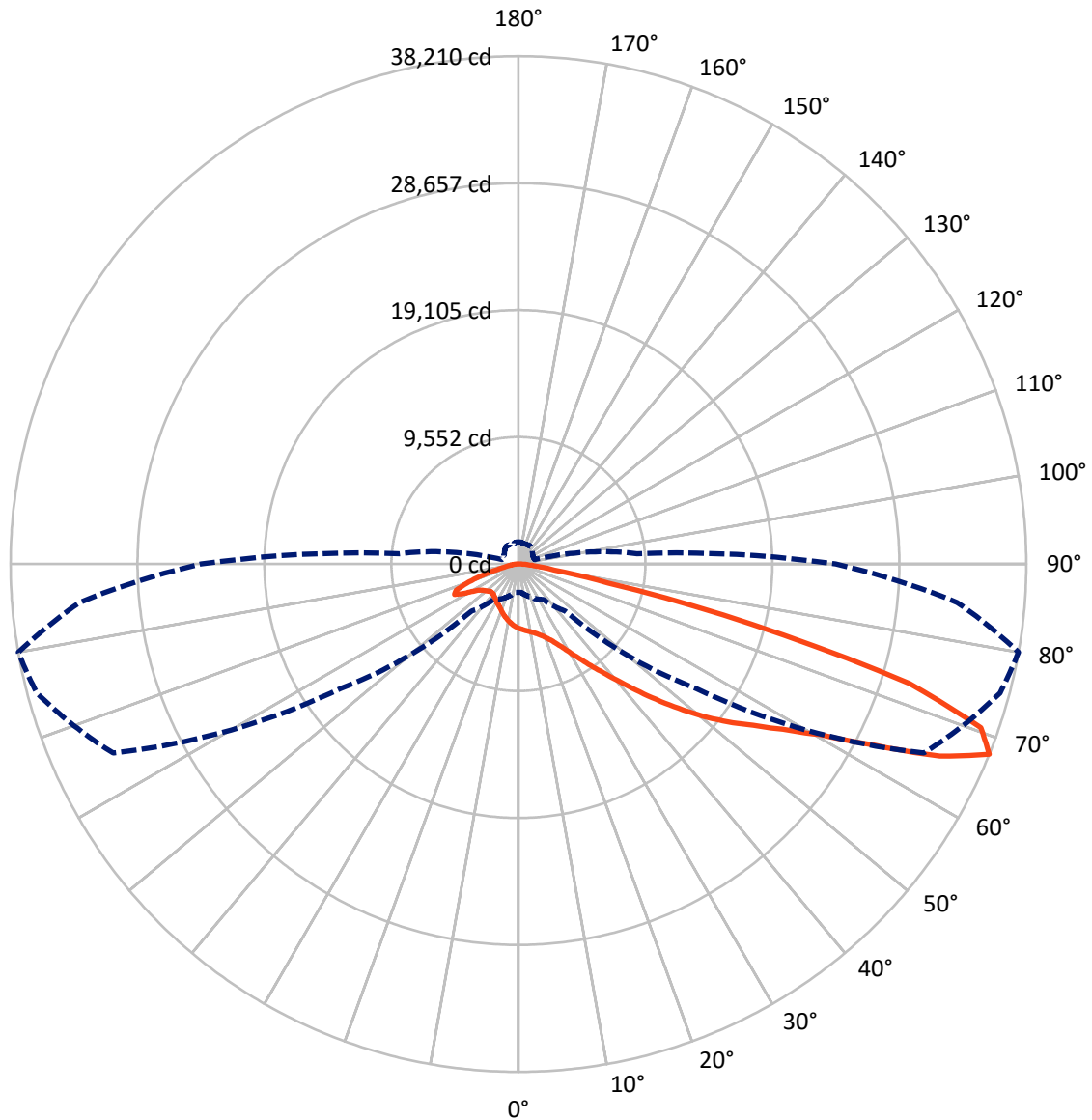


Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - Full Cutoff

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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
House Side	Lumens	6411.9	0.0	6411.9
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	28404.9	0.0	28404.9
	% Fixture	81.6	0.0	81.6
Total	Lumens	34816.9	0.0	34816.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.2	1.3
10°-20°	1285.4	3.7
20°-30°	2127.6	6.1
30°-40°	3480.1	10.0
40°-50°	5619.0	16.1
50°-60°	8112.3	23.3
60°-70°	8952.4	25.7
70°-80°	4126.5	11.9
80°-90°	667.4	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°	34816.9	100.0
0°-180°	34816.9	100.0



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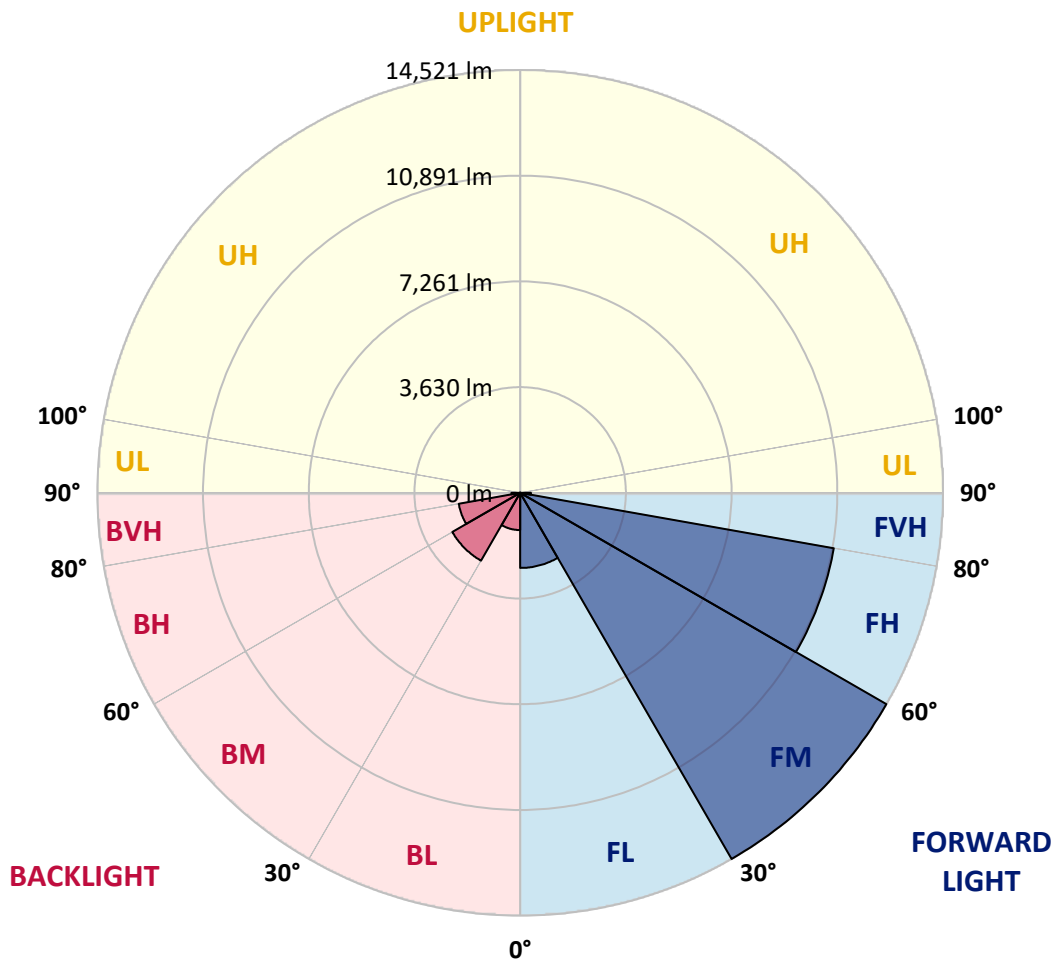
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2579.9	7.4			
FM (30°-60°)	14521.2	41.7			
FH (60°-80°)	10936.9	31.4			G4/12000
FVH (80°-90°)	366.9	1.1			G3/500
BL (0°-30°)	1279.3	3.7	B3/2500		
BM (30°-60°)	2690.2	7.7	B3/5000		
BH (60°-80°)	2142.0	6.2	B3/2500		G3/2500
BVH (80°-90°)	300.5	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°	4837.1	4837.1	4837.1	4837.1	4837.1	4837.1	4837.1	4837.1	4837.1	4837.1	4837.1
2.5°	5291.3	5260.5	5265.6	5257.0	5231.3	5186.7	5138.8	5051.3	4960.5	4912.5	4874.8
5°	5733.5	5725.0	5713.0	5685.5	5620.4	5527.8	5413.0	5258.7	5092.5	5005.1	4921.1
7.5°	6064.3	6059.2	6043.8	6026.6	5963.2	5851.8	5678.7	5459.3	5217.6	5097.6	4967.3
10°	6091.8	6100.3	6112.3	6158.6	6167.2	6107.2	5930.6	5665.0	5347.9	5193.6	5027.3
12.5°	5858.7	5877.5	5923.8	6042.1	6167.2	6240.9	6150.0	5880.9	5500.4	5313.6	5102.8
15°	5550.1	5560.4	5617.0	5779.8	6004.4	6232.3	6318.0	6119.2	5697.5	5467.9	5215.9
17.5°	5418.1	5423.3	5462.7	5570.7	5779.8	6105.5	6412.3	6378.0	5939.2	5659.8	5354.7
20°	5351.3	5363.3	5419.9	5526.1	5658.1	5942.6	6426.0	6657.4	6227.2	5899.8	5529.6
22.5°	5541.6	5536.4	5557.0	5610.1	5721.5	5892.9	6415.7	6945.4	6594.0	6208.3	5757.5
25°	5985.5	6004.4	5968.4	5908.4	5944.4	6064.3	6470.6	7257.3	7053.4	6604.3	6055.8
27.5°	6618.0	6599.1	6546.0	6405.4	6331.7	6383.2	6652.3	7593.3	7624.1	7125.3	6450.0
30°	7248.8	7233.3	7181.9	7010.5	6859.7	6816.8	7005.4	7979.0	8304.6	7751.0	6933.4
32.5°	7903.5	7886.4	7838.4	7667.0	7485.3	7385.9	7507.6	8424.6	9106.8	8498.3	7502.4
35°	8710.9	8678.3	8577.2	8338.9	8160.6	8083.5	8140.1	8985.1	10032.4	9382.8	8193.2
37.5°	9470.2	9519.9	9417.0	9087.9	8856.5	8829.1	8892.5	9669.0	11030.0	10371.8	8986.8
40°	10232.9	10241.5	10149.0	9879.8	9641.6	9597.0	9756.4	10498.6	12207.5	11554.5	9951.8
42.5°	11021.4	11038.5	10882.6	10634.0	10459.2	10467.8	10649.5	11470.5	13558.2	12948.0	11062.5
45°	11955.6	11981.3	11809.9	11484.2	11324.8	11645.3	11569.9	12560.6	15039.2	14531.8	12337.8
47.5°	12932.6	12972.0	12841.7	12536.6	12337.8	12778.3	12490.4	13769.0	16633.2	16230.4	13738.2
50°	13465.7	13522.2	13649.1	13626.8	13583.9	13510.2	13517.1	15064.9	18277.0	17999.3	15178.0
52.5°	13179.4	13177.7	13640.5	14202.7	14802.6	14847.2	14768.3	16431.0	19812.8	19728.8	16533.8
55°	11869.9	11959.0	12660.0	13748.5	15387.1	16410.4	16643.5	17995.9	21321.2	21418.9	17910.2
57.5°	9689.6	9763.3	10709.4	12226.4	14598.7	17339.4	19310.6	20270.5	23007.8	23463.8	19742.5
60°	6571.7	6660.8	7663.6	9485.6	12476.6	16821.8	21849.1	24329.4	25027.0	26064.0	22313.6
62.5°	3861.8	3942.3	4759.9	5983.8	8784.6	14417.0	22963.3	30104.0	28234.0	29987.5	26235.4
65°	2658.5	2713.4	3111.0	3724.7	5047.9	9710.2	21581.7	34090.9	33168.8	34848.6	30782.8
67.5°	2139.1	2132.3	2447.7	2865.9	3249.9	5006.8	16319.6	33640.1	37508.8	38209.8	33143.1
70°	1762.1	1755.2	1969.5	2315.7	2596.8	2819.6	8889.1	28388.3	36624.3	36908.9	30969.6
72.5°	1474.1	1480.9	1618.1	1875.2	2130.6	2123.7	3906.3	19970.5	28811.6	30779.4	24687.6
75°	1244.4	1247.8	1338.7	1520.4	1729.5	1710.6	2118.6	10819.1	16748.1	18117.6	13685.1
77.5°	1059.3	1062.7	1121.0	1222.1	1371.2	1364.4	1546.1	4674.2	6986.5	6900.8	4681.1
80°	944.4	944.4	971.9	990.7	1073.0	1042.1	1146.7	2245.4	2953.3	2727.1	1868.3
82.5°	740.5	743.9	911.9	905.0	845.0	805.6	805.6	1323.3	1564.9	1446.7	1093.6
85°	416.5	414.8	587.9	709.6	743.9	567.4	562.2	740.5	851.9	750.8	529.6
87.5°	178.3	181.7	272.5	315.4	421.7	353.1	348.0	382.2	433.7	375.4	245.1
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°	4837.1	4837.1	4837.1	4837.1	4837.1	4837.1	4837.1	4837.1	4837.1	4837.1	4837.1
2.5°	4838.8	4794.2	4696.5	4574.8	4465.1	4393.1	4328.0	4233.7	4238.9	4173.7	4125.7
5°	4835.4	4742.8	4516.5	4247.4	3988.6	3801.8	3661.2	3534.4	3503.5	3443.5	3407.6
7.5°	4838.8	4688.0	4307.4	3877.2	3556.7	3320.1	3200.2	3133.3	3117.9	3097.3	3099.0
10°	4850.8	4638.2	4077.7	3531.0	3195.0	3039.0	3009.9	3030.5	3054.5	3061.3	3063.0
12.5°	4878.2	4593.7	3825.8	3222.4	2968.8	2920.8	2970.5	3040.7	3087.0	3109.3	3107.6
15°	4939.9	4559.4	3584.1	2980.8	2843.6	2869.3	2961.9	3061.3	3128.2	3159.0	3160.7
17.5°	5006.8	4509.7	3335.6	2795.6	2751.1	2816.2	2931.0	3047.6	3129.9	3164.2	3171.0
20°	5094.2	4448.0	3075.0	2656.8	2663.6	2737.4	2845.3	2961.9	3052.7	3081.9	3095.6
22.5°	5209.0	4381.1	2847.1	2543.7	2564.2	2620.8	2704.8	2805.9	2884.8	2898.5	2910.5
25°	5363.3	4309.1	2665.4	2440.8	2449.4	2482.0	2538.5	2598.5	2653.4	2637.9	2649.9
27.5°	5570.7	4247.4	2530.0	2346.5	2331.1	2338.0	2367.1	2386.0	2415.1	2372.3	2377.4
30°	5814.1	4180.6	2425.4	2264.3	2221.4	2209.4	2216.3	2226.6	2248.8	2190.6	2182.0
32.5°	6096.9	4100.0	2327.7	2192.3	2132.3	2108.3	2111.7	2139.1	2224.9	2188.9	2170.0
35°	6426.0	4009.2	2224.9	2113.4	2072.3	2038.0	2034.6	2120.3	2375.7	2353.4	2336.3
37.5°	6811.7	3918.3	2122.0	2024.3	2027.7	1990.0	1978.0	2075.7	2404.8	2317.4	2305.4
40°	7301.9	3870.3	2034.6	1930.0	1972.9	1967.7	1943.7	1993.5	2212.9	2053.4	2032.9
42.5°	7908.7	3877.2	1969.5	1828.9	1907.7	1962.6	1924.9	1926.6	2005.5	1885.5	1866.6
45°	8657.7	3957.8	1923.2	1748.3	1834.0	1957.5	1918.0	1890.6	1897.5	1834.0	1823.8
47.5°	9531.9	4124.0	1890.6	1681.5	1763.8	1938.6	1916.3	1880.3	1864.9	1830.6	1822.0
50°	10503.8	4365.7	1866.6	1618.1	1700.3	1907.7	1918.0	1870.0	1852.9	1839.2	1834.0
52.5°	11458.5	4641.7	1830.6	1563.2	1650.6	1870.0	1923.2	1859.8	1840.9	1830.6	1825.5
55°	12522.9	4986.2	1775.8	1516.9	1609.5	1822.0	1923.2	1844.3	1823.8	1825.5	1823.8
57.5°	13961.0	5543.3	1710.6	1477.5	1559.8	1763.8	1890.6	1827.2	1801.5	1803.2	1804.9
60°	16208.2	6525.4	1631.8	1438.1	1498.1	1695.2	1846.0	1789.5	1763.8	1770.6	1772.3
62.5°	19512.9	7967.0	1528.9	1379.8	1433.0	1621.5	1784.3	1741.5	1715.8	1732.9	1732.9
65°	22947.8	9238.8	1402.1	1306.1	1364.4	1540.9	1707.2	1681.5	1655.8	1695.2	1693.5
67.5°	23871.7	8954.3	1275.3	1225.6	1295.8	1451.8	1614.6	1600.9	1587.2	1655.8	1652.4
70°	21206.4	7188.8	1158.7	1143.3	1220.4	1355.8	1515.2	1515.2	1506.7	1558.1	1546.1
72.5°	16156.7	5097.6	1047.3	1055.9	1134.7	1251.3	1407.2	1419.2	1405.5	1431.2	1421.0
75°	8649.1	2917.3	935.9	959.9	1028.4	1145.0	1287.3	1299.3	1290.7	1289.0	1294.1
77.5°	2874.5	1426.1	819.3	857.0	917.0	1035.3	1162.1	1181.0	1160.4	1157.0	1155.3
80°	1280.4	896.5	690.8	740.5	793.6	910.2	1030.2	1045.6	1023.3	1054.1	1014.7
82.5°	822.7	589.6	553.6	608.5	659.9	785.0	898.2	901.6	881.0	1023.3	872.5
85°	399.4	365.1	416.5	466.2	510.8	617.1	743.9	745.6	694.2	632.5	610.2
87.5°	198.8	212.5	277.7	322.2	344.5	423.4	541.6	531.4	509.1	462.8	426.8
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)