

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: P298868

Luminaire Tested: **GLNA-AF-03-LED-E1-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298868
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-03-LED-E1-T2-7030
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17190.2 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

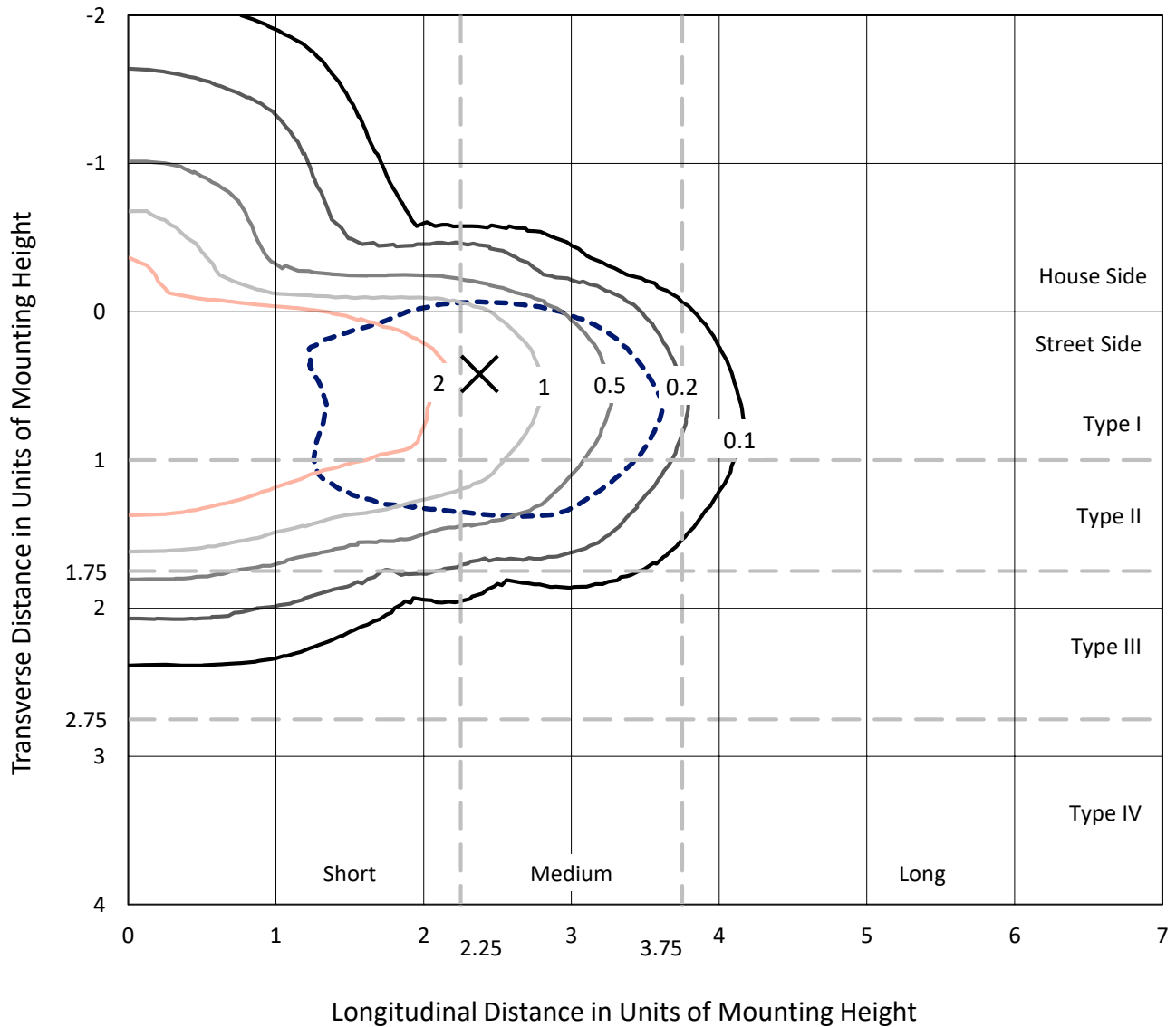
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

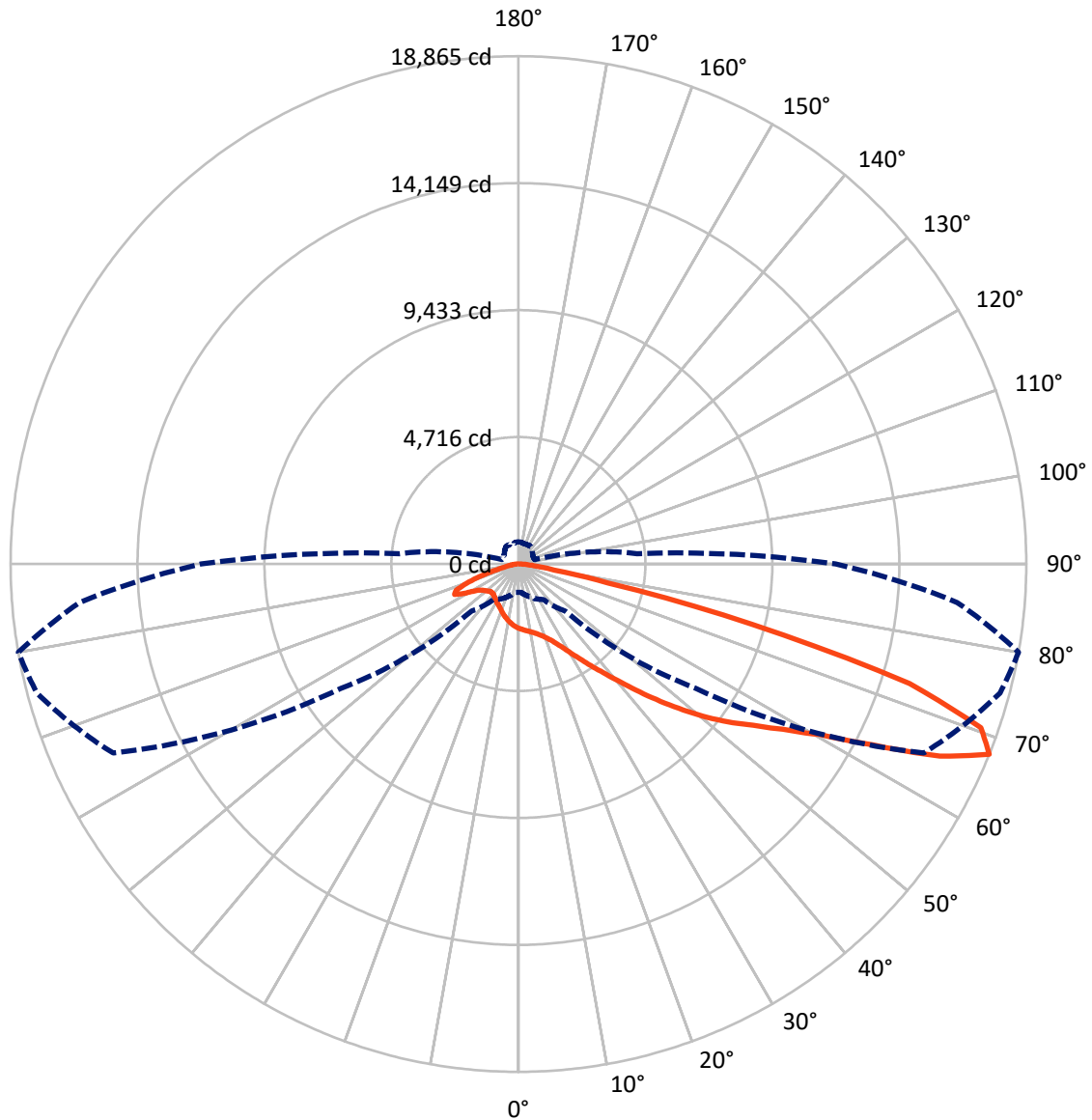
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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
House Side	Lumens	3165.8	0.0	3165.8
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	14024.4	0.0	14024.4
	% Fixture	81.6	0.0	81.6
Total	Lumens	17190.2	0.0	17190.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.3	1.3
10°-20°	634.6	3.7
20°-30°	1050.4	6.1
30°-40°	1718.3	10.0
40°-50°	2774.3	16.1
50°-60°	4005.3	23.3
60°-70°	4420.1	25.7
70°-80°	2037.4	11.9
80°-90°	329.5	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°	17190.2	100.0
0°-180°	17190.2	100.0



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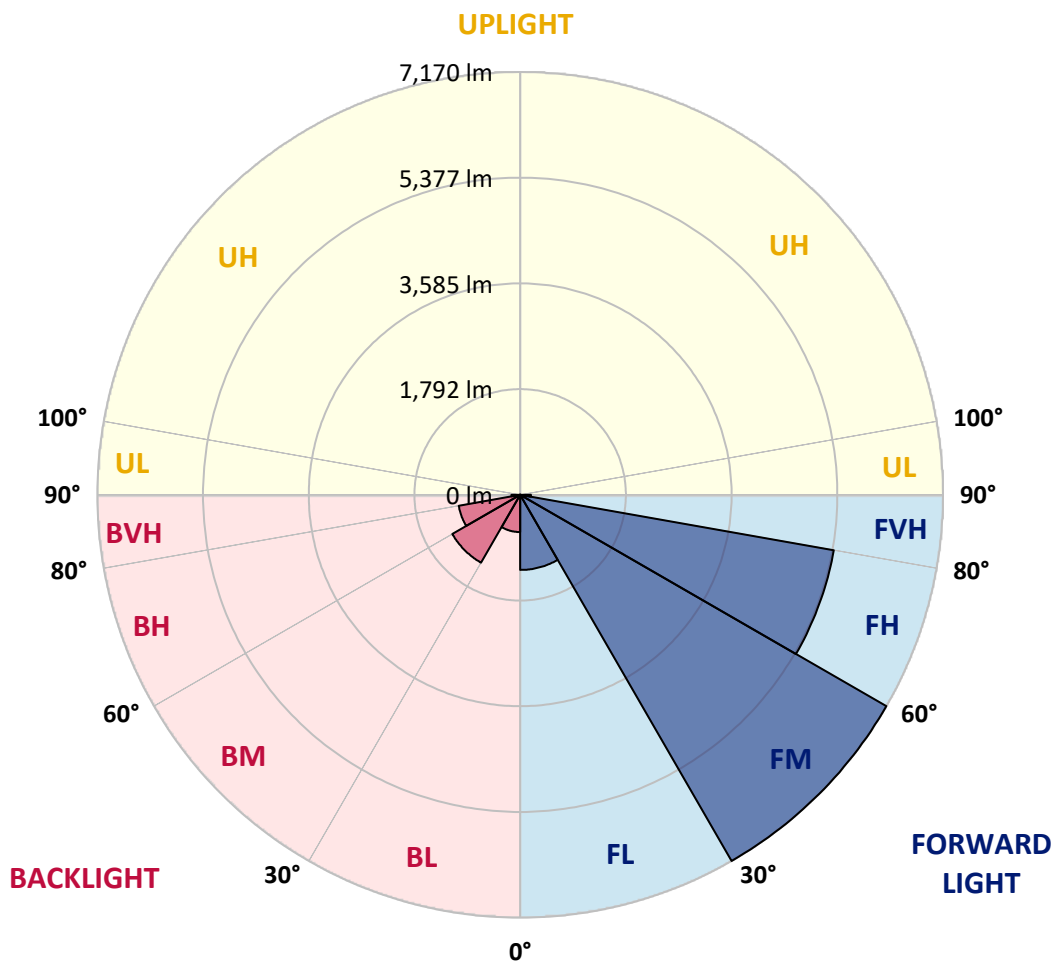
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1273.8	7.4			
FM (30°-60°)	7169.6	41.7			
FH (60°-80°)	5399.9	31.4			G3/7500
FVH (80°-90°)	181.2	1.1			G2/225
BL (0°-30°)	631.6	3.7	B2/1000		
BM (30°-60°)	1328.2	7.7	B2/2500		
BH (60°-80°)	1057.6	6.2	B3/2500		G3/2500
BVH (80°-90°)	148.4	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°	2388.2	2388.2	2388.2	2388.2	2388.2	2388.2	2388.2	2388.2	2388.2	2388.2	2388.2
2.5°	2612.5	2597.2	2599.8	2595.6	2582.9	2560.9	2537.2	2494.0	2449.1	2425.5	2406.8
5°	2830.8	2826.6	2820.7	2807.1	2775.0	2729.3	2672.6	2596.4	2514.3	2471.2	2429.7
7.5°	2994.2	2991.6	2984.0	2975.5	2944.2	2889.2	2803.7	2695.4	2576.1	2516.9	2452.5
10°	3007.7	3011.9	3017.9	3040.7	3044.9	3015.3	2928.1	2797.0	2640.4	2564.2	2482.2
12.5°	2892.6	2901.9	2924.8	2983.2	3044.9	3081.3	3036.5	2903.6	2715.7	2623.5	2519.4
15°	2740.3	2745.3	2773.3	2853.7	2964.5	3077.1	3119.4	3021.2	2813.1	2699.7	2575.2
17.5°	2675.1	2677.6	2697.1	2750.4	2853.7	3014.5	3166.0	3149.0	2932.4	2794.4	2643.8
20°	2642.1	2648.0	2676.0	2728.4	2793.6	2934.1	3172.7	3287.0	3074.6	2912.9	2730.1
22.5°	2736.0	2733.5	2743.7	2769.9	2824.9	2909.5	3167.6	3429.1	3255.7	3065.2	2842.7
25°	2955.2	2964.5	2946.8	2917.1	2934.9	2994.2	3194.7	3583.2	3482.5	3260.7	2989.9
27.5°	3267.5	3258.2	3232.0	3162.6	3126.2	3151.6	3284.4	3749.0	3764.3	3518.0	3184.6
30°	3578.9	3571.3	3545.9	3461.3	3386.8	3365.7	3458.8	3939.5	4100.3	3826.9	3423.2
32.5°	3902.2	3893.8	3870.1	3785.4	3695.7	3646.6	3706.7	4159.5	4496.3	4195.9	3704.2
35°	4300.8	4284.7	4234.8	4117.2	4029.2	3991.1	4019.0	4436.2	4953.3	4632.6	4045.2
37.5°	4675.7	4700.3	4649.5	4487.0	4372.8	4359.2	4390.5	4773.9	5445.8	5120.9	4437.1
40°	5052.3	5056.6	5010.9	4878.0	4760.4	4738.4	4817.1	5183.5	6027.2	5704.8	4913.5
42.5°	5441.6	5450.1	5373.1	5250.4	5164.0	5168.3	5258.0	5663.3	6694.1	6392.8	5461.9
45°	5902.8	5915.5	5830.9	5670.1	5591.4	5749.7	5712.4	6201.6	7425.3	7174.8	6091.6
47.5°	6385.2	6404.7	6340.4	6189.7	6091.6	6309.1	6166.9	6798.2	8212.4	8013.5	6783.0
50°	6648.4	6676.3	6739.0	6728.0	6706.8	6670.4	6673.8	7438.0	9023.9	8886.8	7493.9
52.5°	6507.1	6506.2	6734.7	7012.3	7308.5	7330.5	7291.6	8112.5	9782.2	9740.7	8163.3
55°	5860.5	5904.5	6250.7	6788.1	7597.1	8102.3	8217.4	8885.1	10526.9	10575.2	8842.8
57.5°	4784.1	4820.4	5287.6	6036.6	7207.8	8561.0	9534.3	10008.2	11359.7	11584.8	9747.5
60°	3244.7	3288.7	3783.7	4683.3	6160.1	8305.4	10787.6	12012.2	12356.6	12868.6	11016.9
62.5°	1906.7	1946.5	2350.1	2954.4	4337.2	7118.1	11337.7	14863.3	13940.0	14805.8	12953.2
65°	1312.6	1339.7	1536.0	1839.0	2492.3	4794.2	10655.6	16831.8	16376.5	17205.8	15198.4
67.5°	1056.2	1052.8	1208.5	1415.0	1604.6	2472.0	8057.5	16609.2	18519.3	18865.4	16363.8
70°	870.0	866.6	972.4	1143.3	1282.1	1392.1	4388.8	14016.2	18082.6	18223.1	15290.7
72.5°	727.8	731.2	798.9	925.8	1051.9	1048.5	1928.7	9860.1	14225.2	15196.7	12189.0
75°	614.4	616.1	660.9	750.7	853.9	844.6	1046.0	5341.8	8269.1	8945.2	6756.7
77.5°	523.0	524.7	553.5	603.4	677.0	673.6	763.3	2307.8	3449.5	3407.1	2311.2
80°	466.3	466.3	479.8	489.2	529.8	514.5	566.2	1108.6	1458.1	1346.4	922.5
82.5°	365.6	367.3	450.2	446.8	417.2	397.8	397.8	653.3	772.7	714.3	539.9
85°	205.6	204.8	290.3	350.4	367.3	280.1	277.6	365.6	420.6	370.7	261.5
87.5°	88.0	89.7	134.6	155.7	208.2	174.3	171.8	188.7	214.1	185.3	121.0
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°	2388.2	2388.2	2388.2	2388.2	2388.2	2388.2	2388.2	2388.2	2388.2	2388.2	2388.2
2.5°	2389.1	2367.1	2318.8	2258.7	2204.6	2169.0	2136.9	2090.3	2092.9	2060.7	2037.0
5°	2387.4	2341.7	2230.0	2097.1	1969.3	1877.1	1807.7	1745.0	1729.8	1700.2	1682.4
7.5°	2389.1	2314.6	2126.7	1914.3	1756.0	1639.3	1580.0	1547.0	1539.4	1529.2	1530.1
10°	2395.0	2290.0	2013.3	1743.3	1577.5	1500.5	1486.1	1496.2	1508.1	1511.5	1512.3
12.5°	2408.5	2268.0	1888.9	1591.0	1465.8	1442.1	1466.6	1501.3	1524.2	1535.2	1534.3
15°	2439.0	2251.1	1769.6	1471.7	1404.0	1416.7	1462.4	1511.5	1544.5	1559.7	1560.6
17.5°	2472.0	2226.6	1646.9	1380.3	1358.3	1390.4	1447.1	1504.7	1545.3	1562.2	1565.6
20°	2515.2	2196.1	1518.2	1311.7	1315.1	1351.5	1404.8	1462.4	1507.2	1521.6	1528.4
22.5°	2571.9	2163.1	1405.7	1255.9	1266.0	1294.0	1335.4	1385.4	1424.3	1431.1	1437.0
25°	2648.0	2127.6	1316.0	1205.1	1209.3	1225.4	1253.3	1283.0	1310.0	1302.4	1308.4
27.5°	2750.4	2097.1	1249.1	1158.6	1150.9	1154.3	1168.7	1178.0	1192.4	1171.3	1173.8
30°	2870.6	2064.1	1197.5	1117.9	1096.8	1090.9	1094.2	1099.3	1110.3	1081.6	1077.3
32.5°	3010.2	2024.3	1149.3	1082.4	1052.8	1040.9	1042.6	1056.2	1098.5	1080.7	1071.4
35°	3172.7	1979.5	1098.5	1043.5	1023.2	1006.2	1004.5	1046.9	1173.0	1161.9	1153.5
37.5°	3363.1	1934.6	1047.7	999.5	1001.2	982.5	976.6	1024.9	1187.3	1144.2	1138.3
40°	3605.2	1910.9	1004.5	952.9	974.1	971.5	959.7	984.2	1092.6	1013.8	1003.7
42.5°	3904.8	1914.3	972.4	903.0	941.9	969.0	950.4	951.2	990.2	930.9	921.6
45°	4274.6	1954.1	949.5	863.2	905.5	966.5	947.0	933.5	936.8	905.5	900.4
47.5°	4706.2	2036.2	933.5	830.2	870.8	957.1	946.1	928.4	920.8	903.8	899.6
50°	5186.0	2155.5	921.6	798.9	839.5	941.9	947.0	923.3	914.8	908.1	905.5
52.5°	5657.4	2291.7	903.8	771.8	815.0	923.3	949.5	918.2	908.9	903.8	901.3
55°	6183.0	2461.8	876.8	749.0	794.7	899.6	949.5	910.6	900.4	901.3	900.4
57.5°	6893.0	2736.9	844.6	729.5	770.1	870.8	933.5	902.1	889.4	890.3	891.1
60°	8002.5	3221.8	805.7	710.0	739.7	837.0	911.4	883.5	870.8	874.2	875.1
62.5°	9634.1	3933.5	754.9	681.3	707.5	800.6	881.0	859.8	847.1	855.6	855.6
65°	11330.1	4561.5	692.3	644.9	673.6	760.8	842.9	830.2	817.5	837.0	836.1
67.5°	11786.2	4421.0	629.6	605.1	639.8	716.8	797.2	790.4	783.7	817.5	815.8
70°	10470.2	3549.3	572.1	564.5	602.6	669.4	748.1	748.1	743.9	769.3	763.3
72.5°	7977.1	2516.9	517.1	521.3	560.2	617.8	694.8	700.7	694.0	706.6	701.6
75°	4270.4	1440.4	462.1	473.9	507.8	565.3	635.6	641.5	637.3	636.4	638.9
77.5°	1419.2	704.1	404.5	423.1	452.8	511.2	573.8	583.1	572.9	571.2	570.4
80°	632.2	442.6	341.1	365.6	391.8	449.4	508.6	516.2	505.2	520.5	501.0
82.5°	406.2	291.1	273.4	300.4	325.8	387.6	443.5	445.1	435.0	505.2	430.8
85°	197.2	180.3	205.6	230.2	252.2	304.7	367.3	368.1	342.7	312.3	301.3
87.5°	98.2	104.9	137.1	159.1	170.1	209.0	267.4	262.3	251.3	228.5	210.7
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)