

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: P298934

Luminaire Tested: **GLNA-AF-04-LED-E1-T2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298934
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-04-LED-E1-T2-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18349.9 lumens
Efficiency: N/A
Efficacy: 107.3 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): 171
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

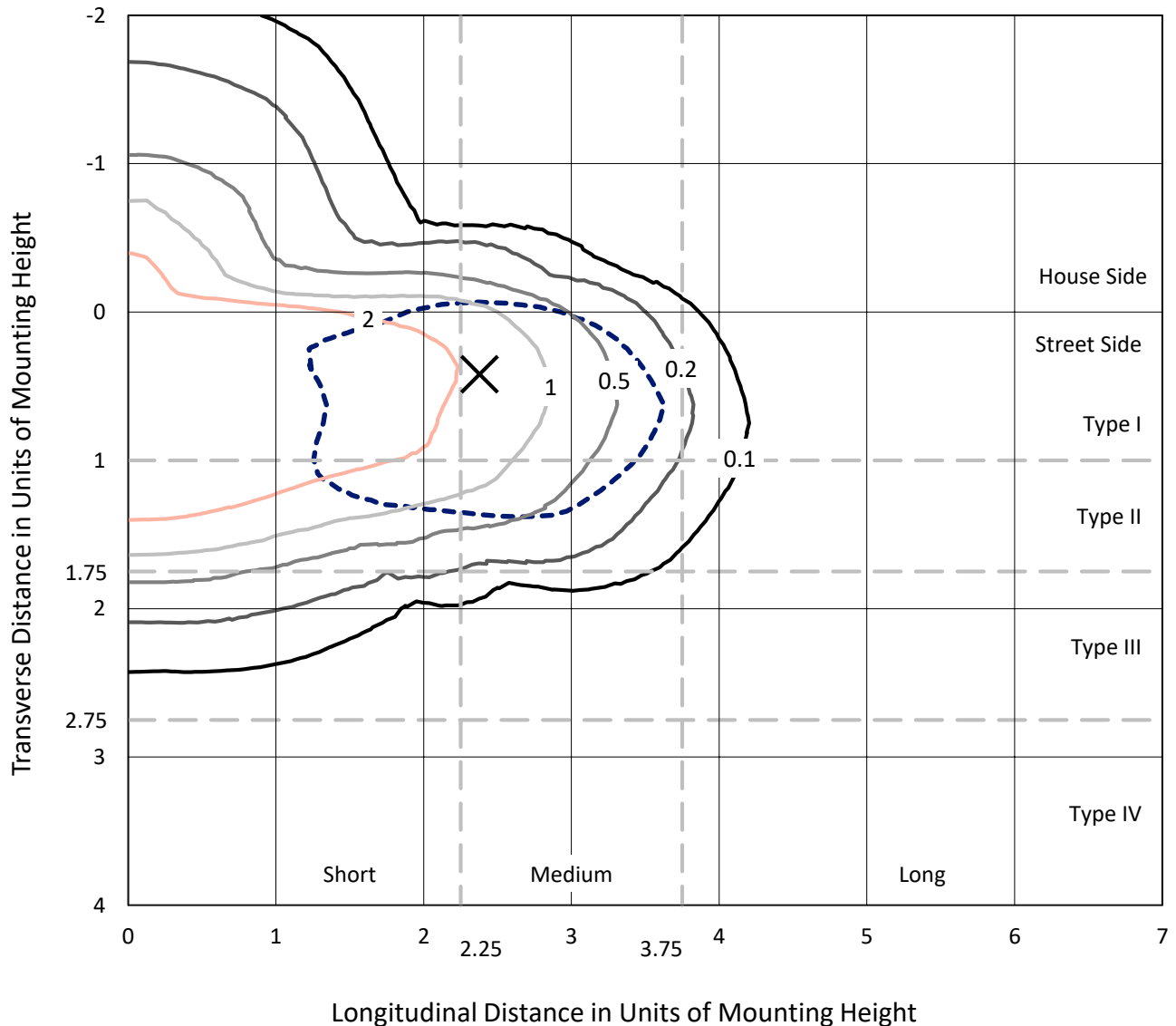


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

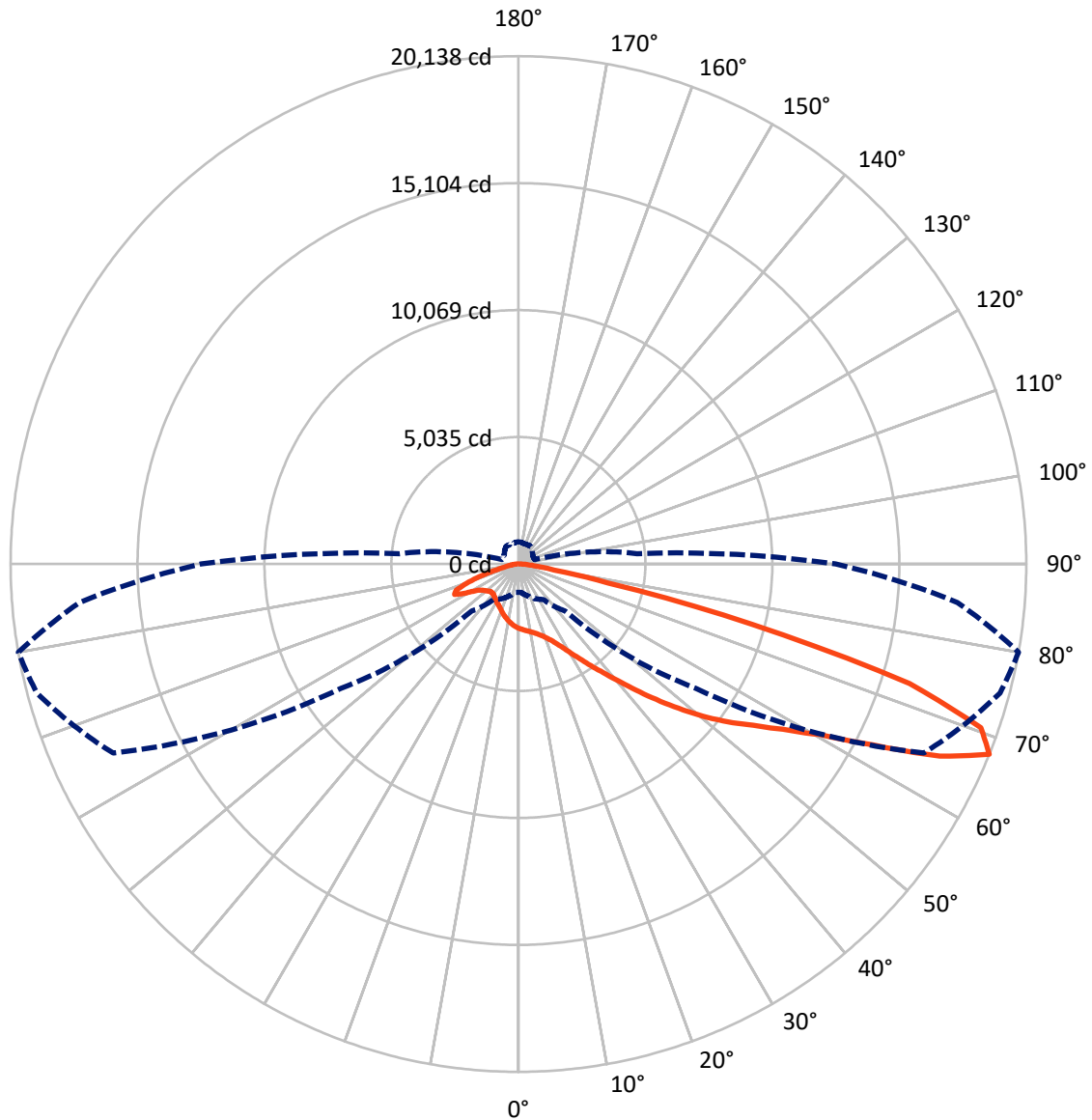


Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Medium - Full Cutoff

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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	3379.4	0.0	3379.4
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	14970.6	0.0	14970.6
	% Fixture	81.6	0.0	81.6
Total	Lumens	18349.9	0.0	18349.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.2	1.3
10°-20°	677.4	3.7
20°-30°	1121.3	6.1
30°-40°	1834.2	10.0
40°-50°	2961.5	16.1
50°-60°	4275.5	23.3
60°-70°	4718.3	25.7
70°-80°	2174.8	11.9
80°-90°	351.8	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°	18349.9	100.0
0°-180°	18349.9	100.0



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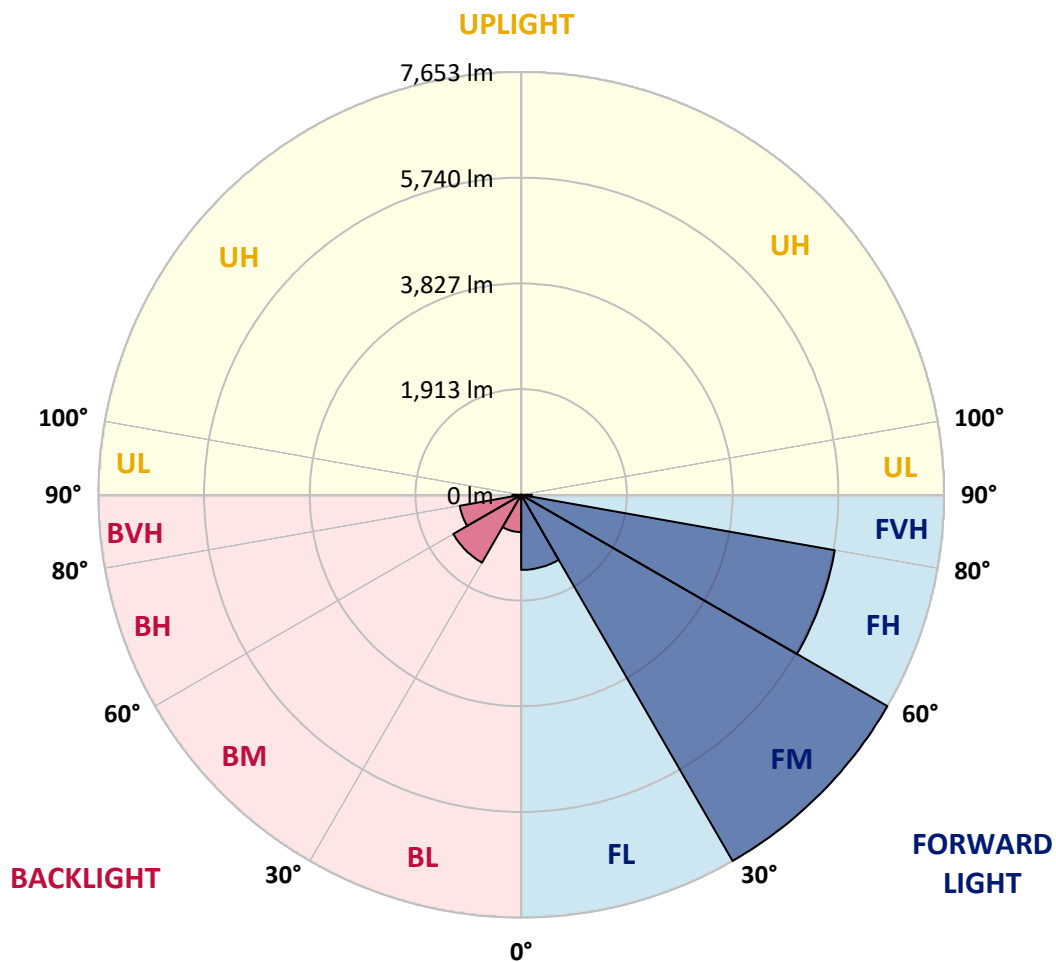
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1359.7	7.4			
FM (30°-60°)	7653.3	41.7			
FH (60°-80°)	5764.2	31.4			G3/7500
FVH (80°-90°)	193.4	1.1			G2/225
BL (0°-30°)	674.2	3.7	B2/1000		
BM (30°-60°)	1417.9	7.7	B2/2500		
BH (60°-80°)	1128.9	6.2	B3/2500		G3/2500
BVH (80°-90°)	158.4	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°	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3
2.5°	2788.7	2772.5	2775.2	2770.7	2757.1	2733.6	2708.3	2662.3	2614.4	2589.1	2569.2
5°	3021.8	3017.3	3011.0	2996.5	2962.2	2913.4	2852.9	2771.6	2683.9	2637.9	2593.6
7.5°	3196.2	3193.4	3185.3	3176.3	3142.9	3084.1	2992.9	2877.3	2749.9	2686.7	2618.0
10°	3210.6	3215.1	3221.5	3245.8	3250.4	3218.7	3125.7	2985.7	2818.5	2737.2	2649.6
12.5°	3087.8	3097.7	3122.1	3184.4	3250.4	3289.2	3241.3	3099.5	2898.9	2800.5	2689.4
15°	2925.1	2930.6	2960.4	3046.2	3164.5	3284.7	3329.9	3225.1	3002.8	2881.8	2749.0
17.5°	2855.6	2858.3	2879.1	2936.0	3046.2	3217.8	3379.5	3361.5	3130.2	2983.0	2822.2
20°	2820.4	2826.7	2856.5	2912.5	2982.1	3132.0	3386.8	3508.7	3282.0	3109.4	2914.3
22.5°	2920.6	2917.9	2928.8	2956.8	3015.5	3105.8	3381.4	3660.5	3475.3	3272.0	3034.5
25°	3154.6	3164.5	3145.6	3114.0	3132.9	3196.2	3410.3	3824.9	3717.4	3480.7	3191.6
27.5°	3487.9	3478.0	3450.0	3375.9	3337.1	3364.2	3506.0	4002.0	4018.2	3755.3	3399.4
30°	3820.4	3812.3	3785.2	3694.8	3615.3	3592.7	3692.1	4205.2	4376.9	4085.1	3654.2
32.5°	4165.5	4156.5	4131.2	4040.8	3945.1	3892.7	3956.8	4440.1	4799.7	4479.0	3954.1
35°	4591.0	4573.8	4520.5	4394.9	4301.0	4260.3	4290.2	4735.5	5287.5	4945.1	4318.2
37.5°	4991.2	5017.4	4963.2	4789.7	4667.8	4653.3	4686.7	5096.0	5813.2	5466.4	4736.4
40°	5393.2	5397.7	5348.9	5207.1	5081.5	5058.0	5142.0	5533.2	6433.9	6089.7	5245.0
42.5°	5808.7	5817.8	5735.6	5604.6	5512.4	5516.9	5612.7	6045.4	7145.7	6824.1	5830.4
45°	6301.1	6314.6	6224.3	6052.6	5968.6	6137.6	6097.8	6620.0	7926.3	7658.9	6502.5
47.5°	6816.0	6836.8	6768.1	6607.3	6502.5	6734.7	6582.9	7256.8	8766.4	8554.1	7240.6
50°	7097.0	7126.8	7193.6	7181.9	7159.3	7120.4	7124.1	7939.8	9632.7	9486.4	7999.4
52.5°	6946.1	6945.2	7189.1	7485.4	7801.6	7825.1	7783.5	8659.8	10442.2	10397.9	8714.0
55°	6255.9	6302.9	6672.4	7246.0	8109.6	8649.0	8771.8	9484.6	11237.1	11288.6	9439.4
57.5°	5106.8	5145.7	5644.3	6443.8	7694.1	9138.6	10177.5	10683.4	12126.1	12366.4	10405.1
60°	3463.6	3510.5	4039.0	4999.3	6575.7	8865.8	11515.4	12822.6	13190.2	13736.8	11760.2
62.5°	2035.3	2077.8	2508.7	3153.7	4629.8	7598.3	12102.6	15866.1	14880.5	15804.6	13827.1
65°	1401.1	1430.1	1639.6	1963.0	2660.5	5117.6	11374.5	17967.3	17481.3	18366.6	16223.8
67.5°	1127.4	1123.8	1290.0	1510.5	1712.8	2638.8	8601.1	17729.7	19768.7	20138.1	17467.8
70°	928.7	925.1	1038.0	1220.5	1368.6	1486.1	4684.9	14961.8	19302.5	19452.5	16322.3
72.5°	776.9	780.5	852.8	988.3	1122.9	1119.3	2058.8	10525.3	15184.9	16222.0	13011.4
75°	655.9	657.7	705.5	801.3	911.5	901.6	1116.6	5702.1	8826.9	9548.7	7212.6
77.5°	558.3	560.1	590.8	644.1	722.7	719.1	814.8	2463.5	3682.2	3637.0	2467.1
80°	497.8	497.8	512.2	522.2	565.5	549.3	604.4	1183.4	1556.5	1437.3	984.7
82.5°	390.3	392.1	480.6	477.0	445.4	424.6	424.6	697.4	824.8	762.5	576.4
85°	219.5	218.6	309.9	374.0	392.1	299.0	296.3	390.3	449.0	395.7	279.1
87.5°	94.0	95.8	143.6	166.2	222.2	186.1	183.4	201.5	228.6	197.8	129.2
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°	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3
2.5°	2550.2	2526.8	2475.3	2411.1	2353.3	2315.4	2281.0	2231.3	2234.1	2199.7	2174.4
5°	2548.4	2499.7	2380.4	2238.6	2102.2	2003.7	1929.6	1862.8	1846.5	1814.9	1795.9
7.5°	2550.2	2470.7	2270.2	2043.4	1874.5	1749.8	1686.6	1651.4	1643.2	1632.4	1633.3
10°	2556.6	2444.5	2149.1	1861.0	1683.9	1601.7	1586.3	1597.2	1609.8	1613.4	1614.3
12.5°	2571.0	2421.1	2016.3	1698.4	1564.7	1539.4	1565.6	1602.6	1627.0	1638.7	1637.8
15°	2603.5	2403.0	1889.0	1571.0	1498.7	1512.3	1561.0	1613.4	1648.7	1664.9	1665.8
17.5°	2638.8	2376.8	1758.0	1473.4	1449.9	1484.3	1544.8	1606.2	1649.6	1667.6	1671.3
20°	2684.8	2344.3	1620.7	1400.2	1403.9	1442.7	1499.6	1561.0	1608.9	1624.3	1631.5
22.5°	2745.4	2309.0	1500.5	1340.6	1351.5	1381.3	1425.5	1478.8	1520.4	1527.6	1533.9
25°	2826.7	2271.1	1404.8	1286.4	1290.9	1308.1	1337.9	1369.5	1398.4	1390.3	1396.6
27.5°	2936.0	2238.6	1333.4	1236.7	1228.6	1232.2	1247.6	1257.5	1272.9	1250.3	1253.0
30°	3064.3	2203.3	1278.3	1193.4	1170.8	1164.5	1168.1	1173.5	1185.2	1154.5	1150.0
32.5°	3213.3	2160.9	1226.8	1155.4	1123.8	1111.2	1113.0	1127.4	1172.6	1153.6	1143.7
35°	3386.8	2113.0	1172.6	1113.9	1092.2	1074.1	1072.3	1117.5	1252.1	1240.3	1231.3
37.5°	3590.0	2065.1	1118.4	1066.9	1068.7	1048.8	1042.5	1094.0	1267.4	1221.4	1215.0
40°	3848.4	2039.8	1072.3	1017.2	1039.8	1037.1	1024.4	1050.6	1166.3	1082.2	1071.4
42.5°	4168.2	2043.4	1038.0	963.9	1005.5	1034.4	1014.5	1015.4	1057.0	993.7	983.8
45°	4563.0	2085.9	1013.6	921.4	966.6	1031.7	1010.9	996.4	1000.0	966.6	961.2
47.5°	5023.7	2173.5	996.4	886.2	929.6	1021.7	1010.0	991.0	982.9	964.8	960.3
50°	5535.9	2300.9	983.8	852.8	896.2	1005.5	1010.9	985.6	976.6	969.3	966.6
52.5°	6039.1	2446.4	964.8	823.9	870.0	985.6	1013.6	980.2	970.2	964.8	962.1
55°	6600.1	2627.9	935.9	799.5	848.3	960.3	1013.6	972.0	961.2	962.1	961.2
57.5°	7358.0	2921.5	901.6	778.7	822.1	929.6	996.4	963.0	949.5	950.4	951.3
60°	8542.4	3439.2	860.0	757.9	789.6	893.4	972.9	943.1	929.6	933.2	934.1
62.5°	10284.1	4198.9	805.8	727.2	755.2	854.6	940.4	917.8	904.3	913.3	913.3
65°	12094.4	4869.2	739.0	688.4	719.1	812.1	899.8	886.2	872.7	893.4	892.5
67.5°	12581.4	4719.3	672.1	645.9	683.0	765.2	851.0	843.8	836.5	872.7	870.9
70°	11176.6	3788.8	610.7	602.6	643.2	714.6	798.6	798.6	794.1	821.2	814.8
72.5°	8515.3	2686.7	552.0	556.5	598.0	659.5	741.7	748.0	740.8	754.3	748.9
75°	4558.5	1537.6	493.2	505.9	542.0	603.5	678.4	684.8	680.2	679.3	682.1
77.5°	1515.0	751.6	431.8	451.7	483.3	545.6	612.5	622.4	611.6	609.8	608.9
80°	674.8	472.5	364.1	390.3	418.3	479.7	542.9	551.1	539.3	555.6	534.8
82.5°	433.6	310.8	291.8	320.7	347.8	413.7	473.4	475.2	464.3	539.3	459.8
85°	210.5	192.4	219.5	245.7	269.2	325.2	392.1	393.0	365.9	333.3	321.6
87.5°	104.8	112.0	146.3	169.8	181.6	223.1	285.5	280.0	268.3	243.9	224.9
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)