

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: P300667

Luminaire Tested: **GLNA-AF-03-LED-E1-RW-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
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-RW-7027-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10595.7 lumens
Efficiency: N/A
Efficacy: 110.4 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

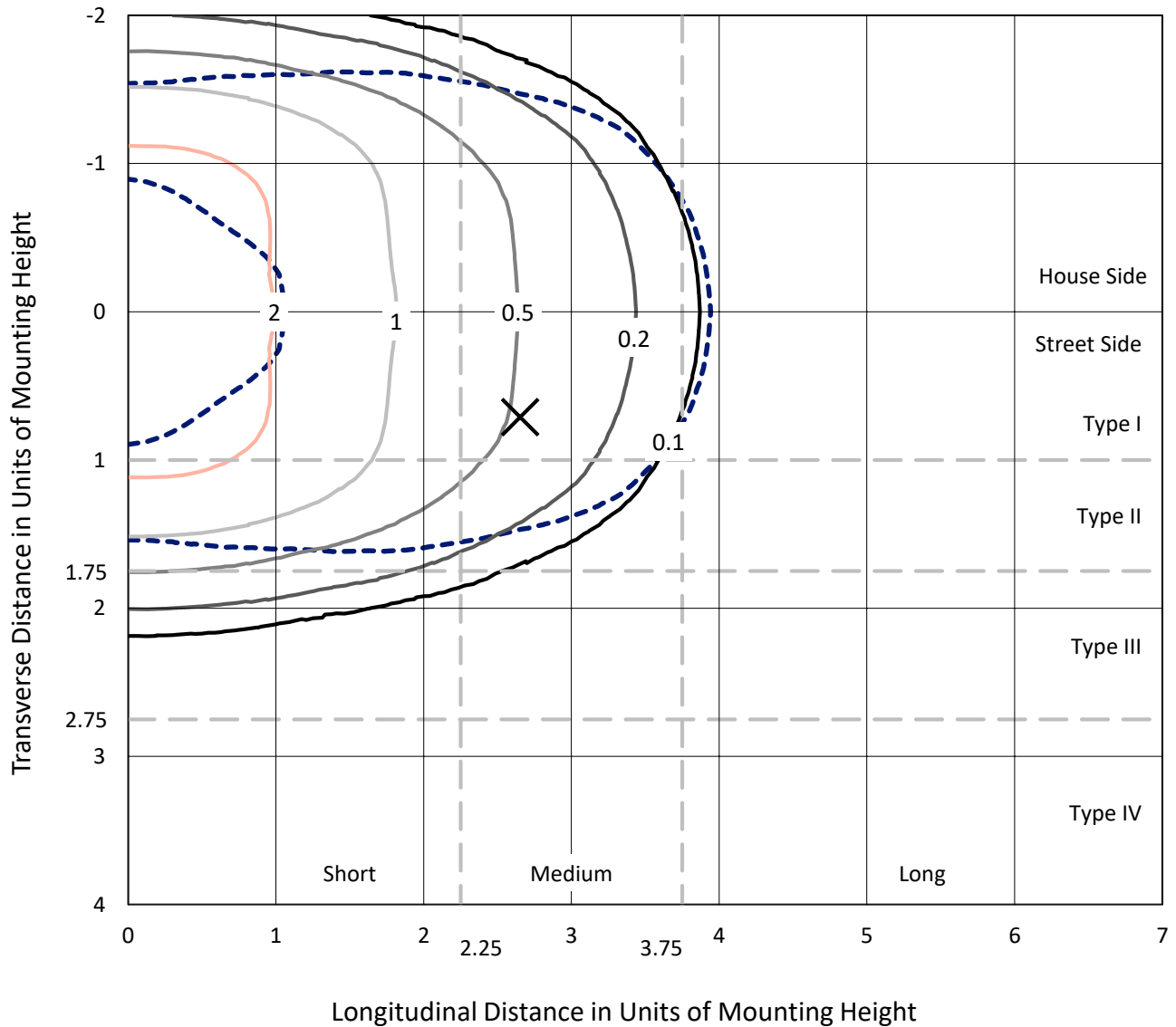
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

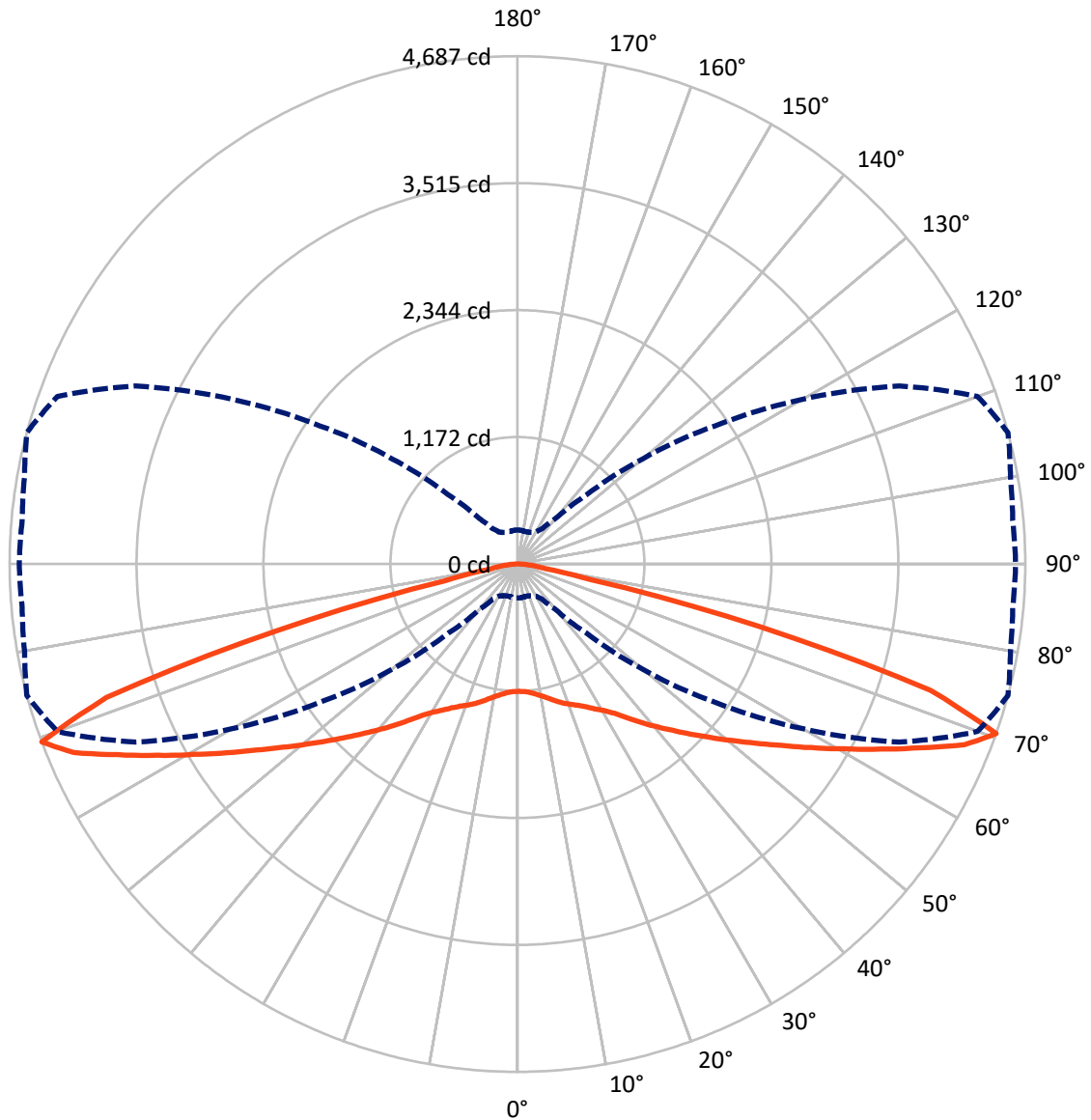
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5297.8	0.0	5297.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5297.8	0.0	5297.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	10595.7	0.0	10595.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	1.1
10°-20°	350.2	3.3
20°-30°	659.2	6.2
30°-40°	1167.3	11.0
40°-50°	1952.2	18.4
50°-60°	2720.3	25.7
60°-70°	2522.7	23.8
70°-80°	1005.4	9.5
80°-90°	105.7	1.0
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°	10595.7	100.0
0°-180°	10595.7	100.0



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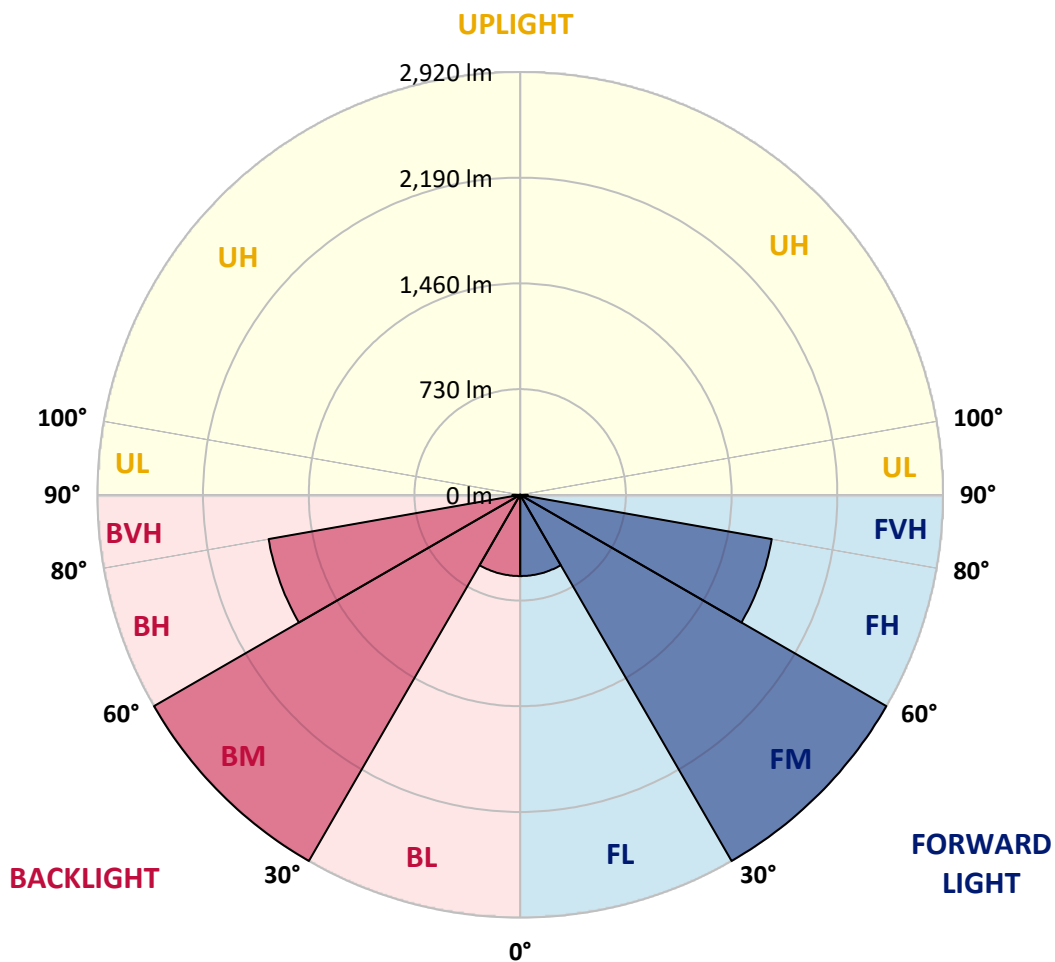
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	561.1	5.3			
FM	(30°-60°)	2919.9	27.6			
FH	(60°-80°)	1764.0	16.6			G1/1800
FVH	(80°-90°)	52.8	0.5			G1/100
BL	(0°-30°)	561.1	5.3	B2/1000		
BM	(30°-60°)	2919.9	27.6	B3/5000		
BH	(60°-80°)	1764.0	16.6	B3/2500		G3/2500
BVH	(80°-90°)	52.8	0.5			G1/100
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°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3
2.5°	1173.3	1172.3	1173.3	1172.8	1173.8	1173.8	1174.8	1176.8	1176.8	1178.3	1177.8
5°	1161.8	1161.3	1162.8	1164.3	1165.8	1168.8	1171.8	1176.3	1179.8	1182.3	1184.8
7.5°	1139.3	1139.3	1141.3	1144.8	1148.3	1154.8	1161.8	1170.8	1179.8	1187.3	1193.8
10°	1120.7	1121.7	1124.2	1130.2	1136.2	1146.3	1155.8	1168.8	1181.3	1193.8	1203.9
12.5°	1109.7	1111.2	1115.7	1124.7	1134.7	1148.3	1162.8	1179.3	1193.3	1208.4	1218.4
15°	1113.2	1114.2	1120.7	1131.7	1144.8	1161.8	1181.3	1200.8	1217.4	1233.4	1246.9
17.5°	1132.7	1134.2	1141.8	1154.3	1167.8	1187.8	1208.9	1230.9	1251.4	1269.5	1286.0
20°	1167.8	1169.3	1178.8	1192.3	1208.4	1228.9	1249.9	1273.0	1296.0	1315.0	1333.6
22.5°	1217.4	1219.9	1228.9	1242.4	1260.4	1282.5	1307.5	1332.0	1354.1	1371.6	1388.1
25°	1282.5	1288.0	1296.5	1311.5	1330.5	1350.6	1377.6	1402.7	1423.7	1440.2	1452.2
27.5°	1374.6	1382.1	1388.6	1403.2	1421.7	1440.7	1467.8	1489.8	1509.8	1525.8	1534.9
30°	1496.8	1504.3	1510.8	1524.8	1541.9	1559.9	1585.4	1605.0	1617.5	1630.0	1629.5
32.5°	1645.0	1653.0	1655.5	1670.6	1688.1	1707.6	1730.7	1741.7	1751.7	1753.2	1744.2
35°	1810.8	1814.8	1824.8	1844.8	1864.9	1880.9	1902.9	1908.4	1908.4	1900.9	1880.9
37.5°	1992.6	1995.1	2009.1	2031.6	2052.2	2068.7	2083.7	2094.7	2089.2	2073.2	2039.6
40°	2191.9	2196.4	2216.4	2236.4	2259.5	2275.0	2291.0	2293.0	2287.5	2264.0	2218.4
42.5°	2382.2	2386.2	2406.2	2437.8	2467.8	2489.3	2504.4	2507.4	2489.8	2468.3	2411.7
45°	2545.9	2556.4	2582.5	2619.5	2663.1	2693.6	2714.2	2722.7	2707.2	2679.1	2613.5
47.5°	2675.6	2686.1	2723.2	2767.3	2821.3	2870.9	2905.0	2923.0	2919.0	2898.0	2826.3
50°	2770.8	2780.8	2820.8	2874.9	2938.0	2999.6	3057.7	3100.8	3115.8	3106.3	3040.7
52.5°	2781.8	2798.3	2845.4	2918.0	3000.1	3084.2	3166.9	3240.0	3289.6	3297.1	3248.5
55°	2628.0	2644.6	2709.7	2817.3	2939.5	3076.7	3208.9	3332.1	3429.8	3479.9	3454.3
57.5°	2265.5	2295.0	2363.6	2489.8	2669.6	2874.9	3085.7	3304.6	3503.4	3636.1	3661.6
60°	1736.2	1771.2	1840.3	1974.5	2174.8	2419.7	2701.2	3024.7	3375.7	3674.2	3852.4
62.5°	1113.7	1146.8	1219.4	1336.1	1499.3	1764.7	2066.7	2450.8	2922.5	3393.7	3818.4
65°	572.4	590.4	628.5	699.1	826.3	1024.6	1295.5	1678.6	2217.9	2799.3	3413.3
67.5°	362.6	366.1	374.6	384.6	417.1	485.7	611.9	850.8	1294.5	1900.9	2619.5
70°	313.5	313.5	309.5	308.0	312.0	321.5	341.0	396.6	546.3	902.4	1510.8
72.5°	286.9	283.9	276.9	271.4	270.4	270.4	274.4	282.9	307.0	367.6	591.4
75°	264.4	255.9	246.4	239.9	237.4	234.9	234.4	235.9	240.9	250.4	282.4
77.5°	236.9	225.8	214.8	208.3	205.3	201.8	198.8	195.3	192.8	195.8	209.8
80°	203.8	191.3	182.8	178.8	175.8	170.8	164.3	158.2	152.7	151.7	160.2
82.5°	164.3	149.7	150.2	151.7	146.2	139.2	132.2	125.7	116.2	111.2	116.2
85°	132.7	125.2	121.7	131.2	123.2	112.7	101.7	90.1	75.1	63.1	68.6
87.5°	51.6	51.6	77.1	118.7	106.7	87.1	74.6	63.6	39.6	30.5	31.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3
2.5°	1177.3	1178.3	1177.8	1177.3	1177.3	1176.8	1177.3	1177.3
5°	1186.3	1188.8	1188.8	1189.8	1189.8	1190.3	1190.8	1190.3
7.5°	1199.8	1204.4	1207.4	1210.9	1211.4	1211.9	1212.9	1211.9
10°	1213.4	1222.4	1228.9	1235.4	1238.4	1239.4	1240.4	1240.4
12.5°	1230.4	1242.9	1254.4	1265.9	1271.5	1274.5	1274.5	1276.5
15°	1258.4	1271.0	1284.5	1300.0	1309.5	1314.5	1316.0	1316.0
17.5°	1298.0	1309.0	1320.5	1335.6	1347.6	1354.1	1355.6	1355.1
20°	1344.1	1354.6	1361.1	1370.6	1381.1	1388.6	1390.6	1390.6
22.5°	1396.6	1402.7	1403.7	1406.7	1415.2	1425.2	1429.7	1430.7
25°	1454.7	1456.2	1452.2	1452.2	1457.7	1467.3	1471.8	1472.3
27.5°	1529.9	1522.3	1512.3	1508.8	1512.3	1523.3	1528.9	1530.9
30°	1623.5	1605.5	1582.4	1569.9	1567.9	1582.4	1592.5	1594.0
32.5°	1730.7	1704.6	1674.1	1648.5	1642.0	1651.0	1663.1	1662.6
35°	1857.9	1826.8	1789.8	1757.2	1742.2	1751.2	1768.2	1770.2
37.5°	2004.6	1964.0	1921.5	1880.4	1856.9	1859.4	1877.4	1883.4
40°	2168.3	2115.8	2062.2	2007.1	1973.5	1967.0	1989.1	1992.6
42.5°	2343.6	2276.0	2208.4	2140.3	2097.2	2087.2	2112.8	2111.2
45°	2530.4	2444.3	2365.1	2290.0	2238.9	2223.9	2245.0	2245.0
47.5°	2731.2	2625.0	2530.9	2445.8	2390.2	2368.6	2388.7	2390.2
50°	2944.0	2831.4	2720.7	2626.0	2559.4	2531.9	2557.9	2561.9
52.5°	3155.9	3046.2	2934.5	2826.3	2745.7	2712.2	2742.2	2755.2
55°	3370.7	3263.0	3156.4	3050.7	2955.0	2915.5	2947.5	2964.1
57.5°	3597.5	3497.9	3396.2	3289.6	3197.4	3135.8	3169.9	3191.9
60°	3863.4	3778.3	3672.7	3555.0	3461.8	3399.2	3418.8	3438.3
62.5°	4073.8	4106.8	4017.2	3881.0	3761.3	3681.2	3700.2	3720.7
65°	3972.1	4311.1	4390.8	4253.0	4087.3	3962.6	3954.6	3965.1
67.5°	3320.1	3978.6	4458.9	4590.1	4451.3	4278.1	4246.0	4261.6
70°	2220.9	3041.2	3888.5	4519.5	4687.2	4620.1	4588.6	4598.1
72.5°	1066.6	1771.2	2638.1	3476.8	3987.6	4222.0	4297.1	4333.7
75°	390.1	703.1	1271.5	1915.9	2313.1	2677.6	2915.5	3012.6
77.5°	235.4	283.9	406.1	611.4	692.6	775.2	743.1	759.2
80°	174.3	196.8	222.8	250.4	259.4	259.4	249.4	241.4
82.5°	122.2	136.7	149.2	164.3	168.3	160.7	132.2	105.2
85°	78.6	85.1	90.6	100.2	97.7	93.1	62.6	55.6
87.5°	36.1	41.1	43.1	47.6	45.6	43.6	31.0	26.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)