

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: P300671

Luminaire Tested: **GLNA-AF-03-LED-E1-RW-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300671
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-7050-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K 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: 12195.2 lumens
Efficiency: N/A
Efficacy: 127.0 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

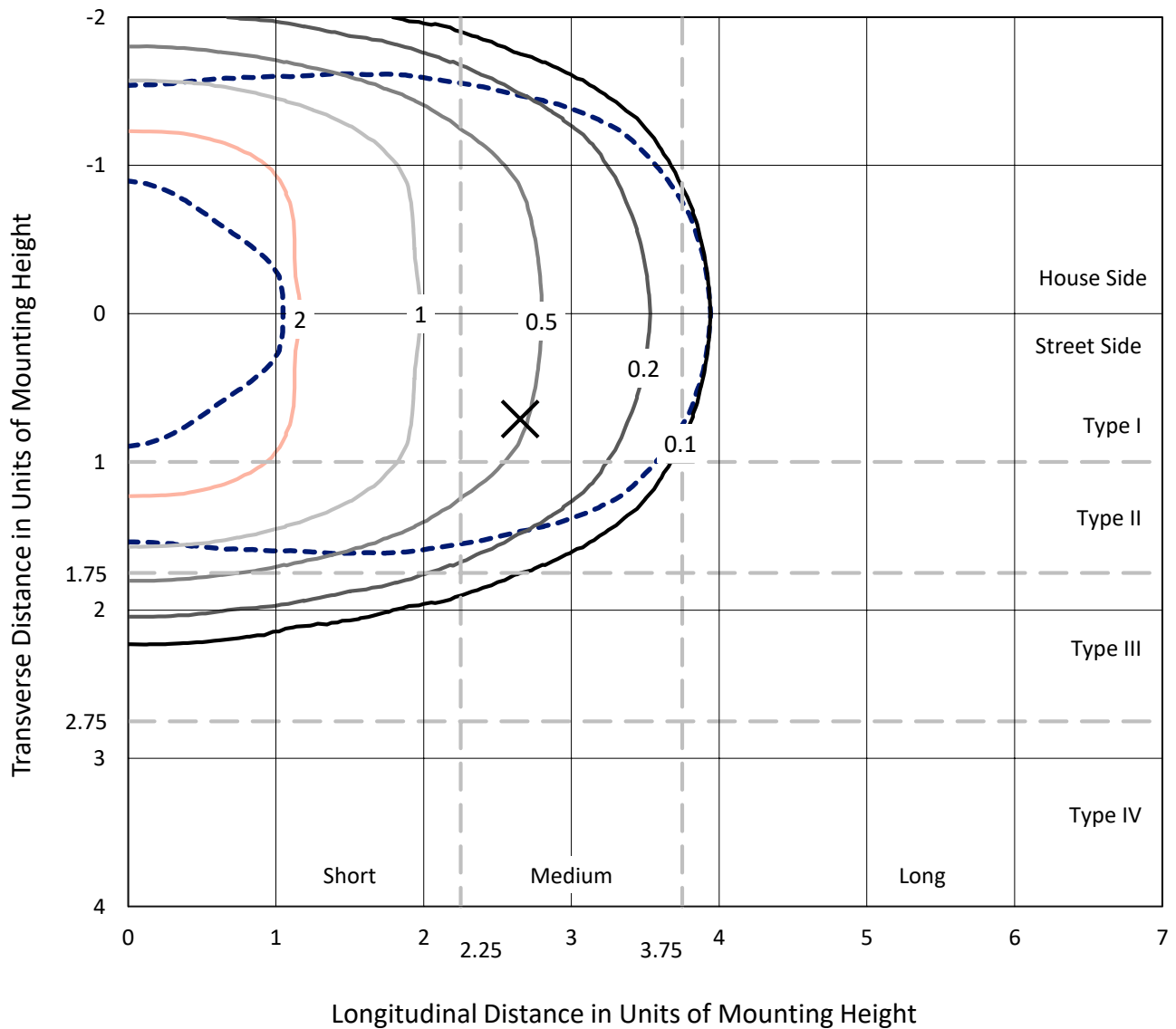
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

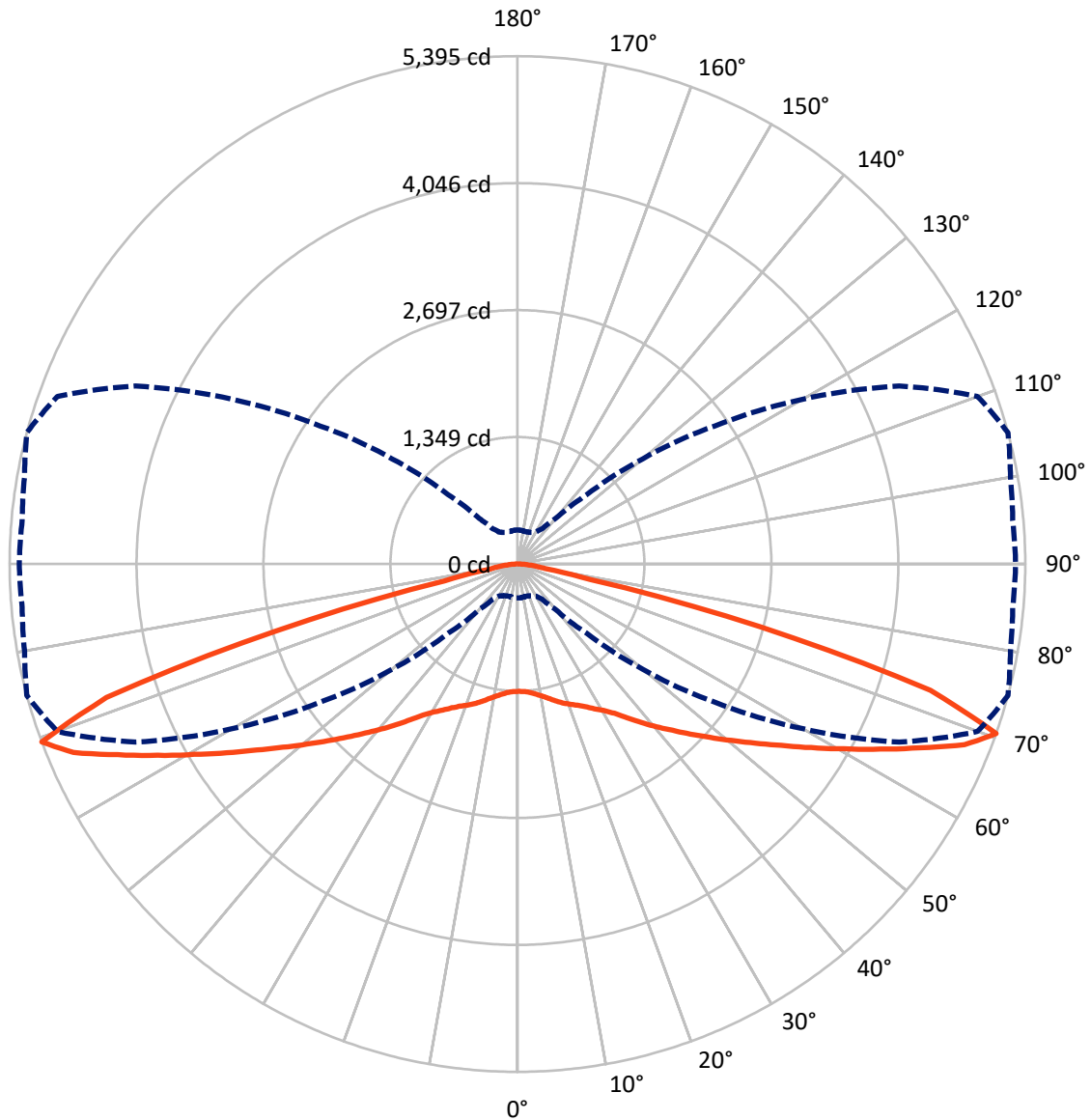
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 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	6097.6	0.0	6097.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6097.6	0.0	6097.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	12195.2	0.0	12195.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.7	1.1
10°-20°	403.1	3.3
20°-30°	758.7	6.2
30°-40°	1343.6	11.0
40°-50°	2246.9	18.4
50°-60°	3131.0	25.7
60°-70°	2903.5	23.8
70°-80°	1157.1	9.5
80°-90°	121.6	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°	12195.2	100.0
0°-180°	12195.2	100.0



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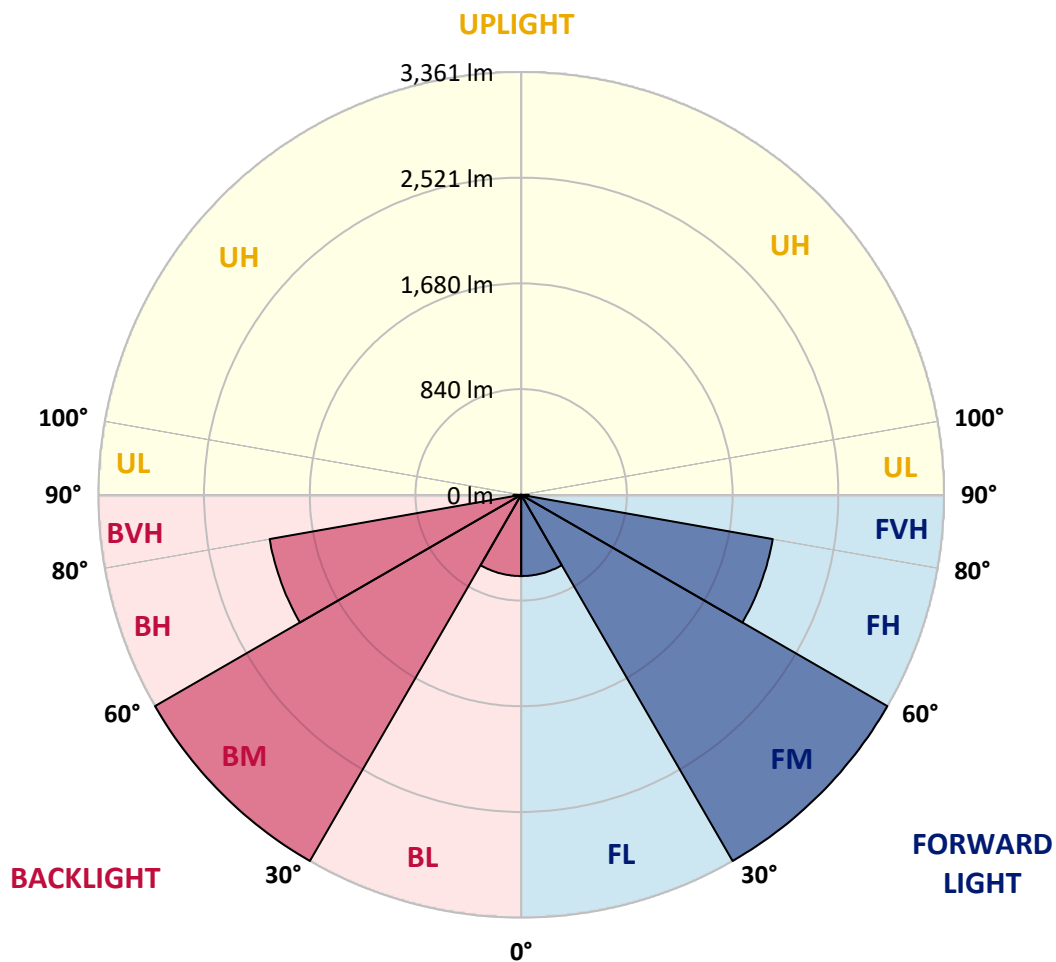
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	645.8	5.3			
FM	(30°-60°)	3360.7	27.6			
FH	(60°-80°)	2030.3	16.6			G2/5000
FVH	(80°-90°)	60.8	0.5			G1/100
BL	(0°-30°)	645.8	5.3	B2/1000		
BM	(30°-60°)	3360.7	27.6	B3/5000		
BH	(60°-80°)	2030.3	16.6	B3/2500		G3/2500
BVH	(80°-90°)	60.8	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°	1352.7	1352.7	1352.7	1352.7	1352.7	1352.7	1352.7	1352.7	1352.7	1352.7	1352.7
2.5°	1350.4	1349.3	1350.4	1349.9	1351.0	1351.0	1352.2	1354.5	1354.5	1356.2	1355.6
5°	1337.2	1336.6	1338.3	1340.1	1341.8	1345.2	1348.7	1353.9	1357.9	1360.8	1363.7
7.5°	1311.2	1311.2	1313.5	1317.6	1321.6	1329.1	1337.2	1347.5	1357.9	1366.6	1374.1
10°	1289.9	1291.1	1293.9	1300.9	1307.8	1319.3	1330.3	1345.2	1359.7	1374.1	1385.6
12.5°	1277.2	1279.0	1284.1	1294.5	1306.0	1321.6	1338.3	1357.3	1373.5	1390.8	1402.3
15°	1281.3	1282.4	1289.9	1302.6	1317.6	1337.2	1359.7	1382.1	1401.1	1419.6	1435.2
17.5°	1303.7	1305.5	1314.1	1328.5	1344.1	1367.1	1391.4	1416.7	1440.3	1461.1	1480.1
20°	1344.1	1345.8	1356.8	1372.3	1390.8	1414.4	1438.6	1465.1	1491.6	1513.5	1534.9
22.5°	1401.1	1404.0	1414.4	1430.0	1450.7	1476.1	1504.9	1533.1	1558.5	1578.7	1597.7
25°	1476.1	1482.4	1492.2	1509.5	1531.4	1554.5	1585.6	1614.4	1638.6	1657.6	1671.5
27.5°	1582.1	1590.8	1598.3	1615.0	1636.3	1658.2	1689.3	1714.7	1737.7	1756.2	1766.6
30°	1722.8	1731.4	1738.9	1755.0	1774.6	1795.4	1824.8	1847.3	1861.7	1876.1	1875.5
32.5°	1893.4	1902.6	1905.5	1922.8	1942.9	1965.4	1991.9	2004.6	2016.1	2017.9	2007.5
35°	2084.1	2088.8	2100.3	2123.3	2146.4	2164.8	2190.2	2196.5	2196.5	2187.9	2164.8
37.5°	2293.4	2296.2	2312.4	2338.3	2362.0	2381.0	2398.3	2410.9	2404.6	2386.2	2347.5
40°	2522.8	2527.9	2551.0	2574.1	2600.6	2618.4	2636.9	2639.2	2632.8	2605.8	2553.3
42.5°	2741.8	2746.4	2769.4	2805.8	2840.3	2865.1	2882.4	2885.9	2865.7	2840.9	2775.8
45°	2930.3	2942.4	2972.3	3015.0	3065.1	3100.3	3123.9	3133.7	3115.8	3083.6	3008.1
47.5°	3079.5	3091.6	3134.3	3185.0	3247.3	3304.3	3343.5	3364.3	3359.6	3335.4	3253.0
50°	3189.0	3200.6	3246.7	3308.9	3381.5	3452.4	3519.3	3568.9	3586.2	3575.2	3499.7
52.5°	3201.7	3220.7	3274.9	3358.5	3453.0	3549.8	3644.9	3729.1	3786.2	3794.8	3738.9
55°	3024.8	3043.8	3118.7	3242.6	3383.3	3541.2	3693.4	3835.1	3947.5	4005.2	3975.8
57.5°	2607.5	2641.5	2720.5	2865.7	3072.6	3308.9	3551.6	3803.4	4032.3	4185.0	4214.4
60°	1998.3	2038.6	2118.2	2272.6	2503.2	2785.0	3108.9	3481.3	3885.3	4228.8	4434.0
62.5°	1281.8	1319.9	1403.5	1537.7	1725.6	2031.1	2378.7	2820.7	3363.7	3906.0	4394.8
65°	658.8	679.5	723.3	804.6	951.0	1179.2	1491.1	1932.0	2552.7	3221.9	3928.5
67.5°	417.3	421.3	431.1	442.7	480.1	559.1	704.3	979.2	1489.9	2187.9	3015.0
70°	360.8	360.8	356.2	354.5	359.1	370.0	392.5	456.5	628.8	1038.6	1738.9
72.5°	330.3	326.8	318.7	312.4	311.2	311.2	315.8	325.6	353.3	423.1	680.7
75°	304.3	294.5	283.6	276.1	273.2	270.3	269.7	271.5	277.2	288.2	325.1
77.5°	272.6	259.9	247.3	239.8	236.3	232.3	228.8	224.8	221.9	225.4	241.5
80°	234.6	220.2	210.4	205.8	202.3	196.5	189.0	182.1	175.8	174.6	184.4
82.5°	189.0	172.3	172.9	174.6	168.3	160.2	152.2	144.7	133.7	128.0	133.7
85°	152.7	144.1	140.1	151.0	141.8	129.7	117.0	103.7	86.5	72.6	79.0
87.5°	59.4	59.4	88.8	136.6	122.8	100.3	85.9	73.2	45.5	35.2	35.7
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°	1352.7	1352.7	1352.7	1352.7	1352.7	1352.7	1352.7	1352.7
2.5°	1355.0	1356.2	1355.6	1355.0	1355.0	1354.5	1355.0	1355.0
5°	1365.4	1368.3	1368.3	1369.4	1369.4	1370.0	1370.6	1370.0
7.5°	1381.0	1386.2	1389.6	1393.7	1394.2	1394.8	1396.0	1394.8
10°	1396.5	1406.9	1414.4	1421.9	1425.4	1426.5	1427.7	1427.7
12.5°	1416.1	1430.5	1443.8	1457.1	1463.4	1466.9	1466.9	1469.2
15°	1448.4	1462.8	1478.4	1496.3	1507.2	1513.0	1514.7	1514.7
17.5°	1493.9	1506.6	1519.9	1537.2	1551.0	1558.5	1560.2	1559.7
20°	1547.0	1559.1	1566.6	1577.5	1589.6	1598.3	1600.6	1600.6
22.5°	1607.5	1614.4	1615.6	1619.0	1628.8	1640.3	1645.5	1646.7
25°	1674.3	1676.1	1671.5	1671.5	1677.8	1688.8	1693.9	1694.5
27.5°	1760.8	1752.2	1740.6	1736.6	1740.6	1753.3	1759.7	1762.0
30°	1868.6	1847.8	1821.3	1806.9	1804.6	1821.3	1832.8	1834.6
32.5°	1991.9	1962.0	1926.8	1897.4	1889.9	1900.3	1914.1	1913.5
35°	2138.3	2102.6	2059.9	2022.5	2005.2	2015.6	2035.2	2037.5
37.5°	2307.2	2260.5	2211.5	2164.3	2137.2	2140.1	2160.8	2167.7
40°	2495.7	2435.2	2373.5	2310.1	2271.5	2264.0	2289.3	2293.4
42.5°	2697.4	2619.6	2541.8	2463.4	2413.8	2402.3	2431.7	2430.0
45°	2912.4	2813.3	2722.2	2635.7	2576.9	2559.6	2583.9	2583.9
47.5°	3143.5	3021.3	2913.0	2815.0	2751.0	2726.2	2749.3	2751.0
50°	3388.5	3258.8	3131.4	3022.5	2945.8	2914.1	2944.1	2948.7
52.5°	3632.3	3506.0	3377.5	3253.0	3160.2	3121.6	3156.2	3171.2
55°	3879.5	3755.6	3632.8	3511.2	3401.1	3355.6	3392.5	3411.5
57.5°	4140.6	4025.9	3908.9	3786.2	3680.1	3609.2	3648.4	3673.8
60°	4446.7	4348.7	4227.1	4091.6	3984.4	3912.4	3934.9	3957.3
62.5°	4688.8	4726.8	4623.6	4466.8	4329.1	4236.9	4258.8	4282.4
65°	4571.7	4961.9	5053.6	4895.1	4704.3	4560.8	4551.6	4563.7
67.5°	3821.3	4579.2	5132.0	5283.0	5123.3	4923.9	4887.0	4904.9
70°	2556.2	3500.3	4475.5	5201.7	5394.8	5317.6	5281.3	5292.2
72.5°	1227.7	2038.6	3036.3	4001.7	4589.6	4859.4	4945.8	4987.9
75°	449.0	809.2	1463.4	2205.2	2662.2	3081.8	3355.6	3467.4
77.5°	270.9	326.8	467.4	703.7	797.1	892.2	855.3	873.8
80°	200.6	226.5	256.5	288.2	298.6	298.6	287.0	277.8
82.5°	140.6	157.3	171.8	189.0	193.7	185.0	152.2	121.0
85°	90.5	98.0	104.3	115.3	112.4	107.2	72.0	64.0
87.5°	41.5	47.3	49.6	54.8	52.4	50.1	35.7	30.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)