

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: P300604

Luminaire Tested: **GLNA-AF-02-LED-E1-RW-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300604
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-02-LED-E1-RW-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10022.8 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

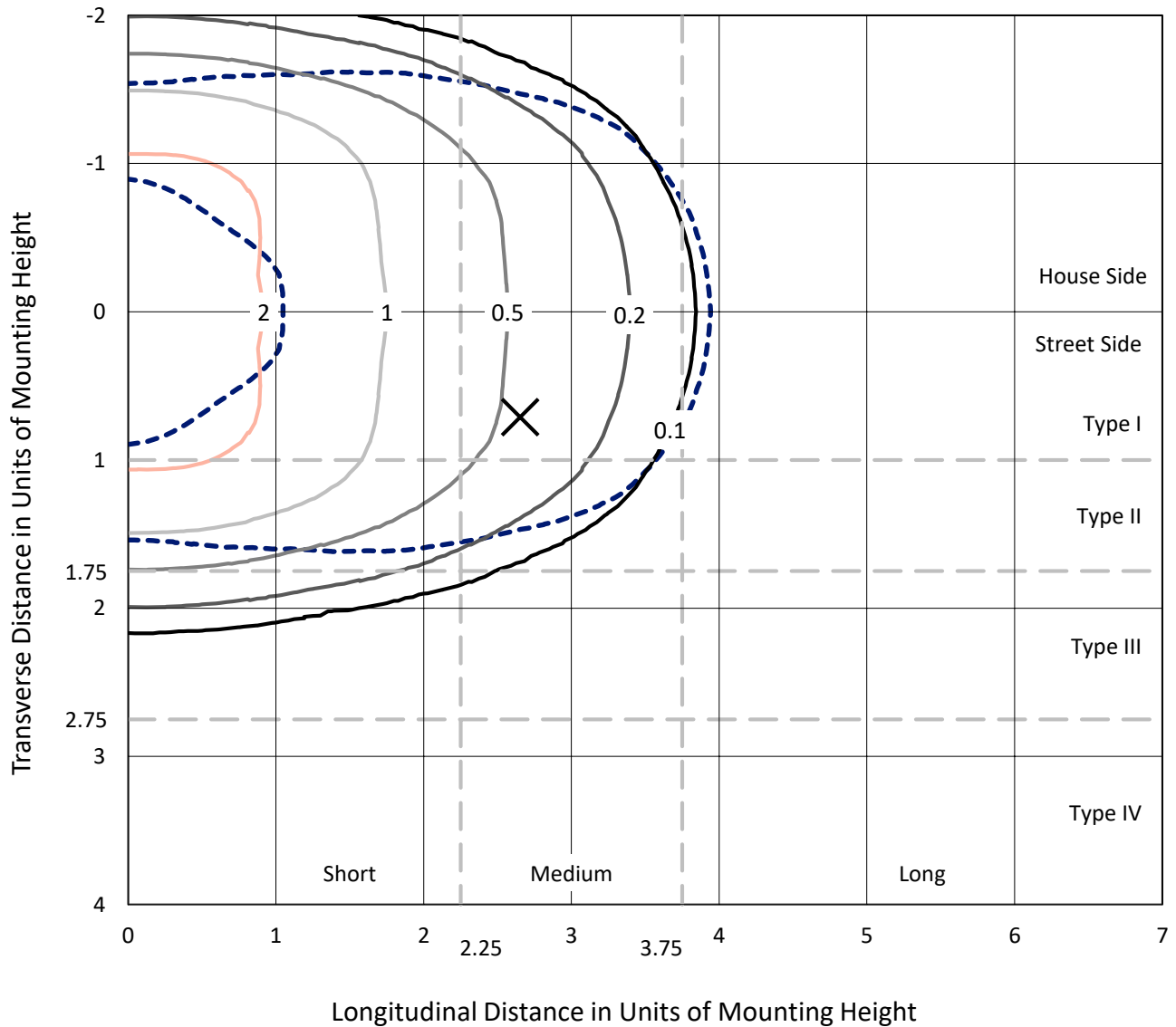
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

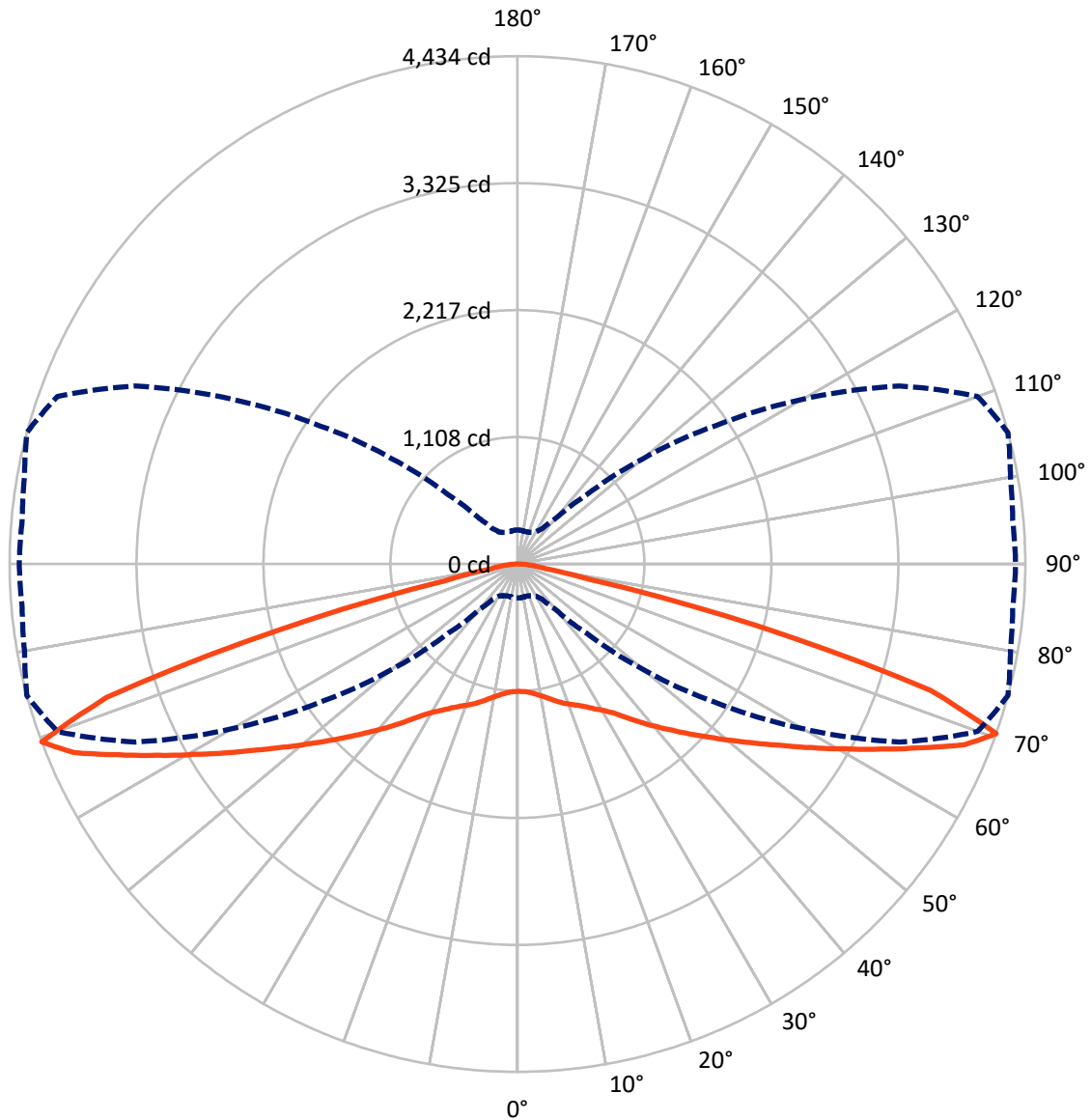
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.8 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	5011.4	0.0	5011.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5011.4	0.0	5011.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	10022.8	0.0	10022.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.6	1.1
10°-20°	331.3	3.3
20°-30°	623.6	6.2
30°-40°	1104.2	11.0
40°-50°	1846.6	18.4
50°-60°	2573.2	25.7
60°-70°	2386.3	23.8
70°-80°	951.0	9.5
80°-90°	100.0	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°	10022.8	100.0
0°-180°	10022.8	100.0



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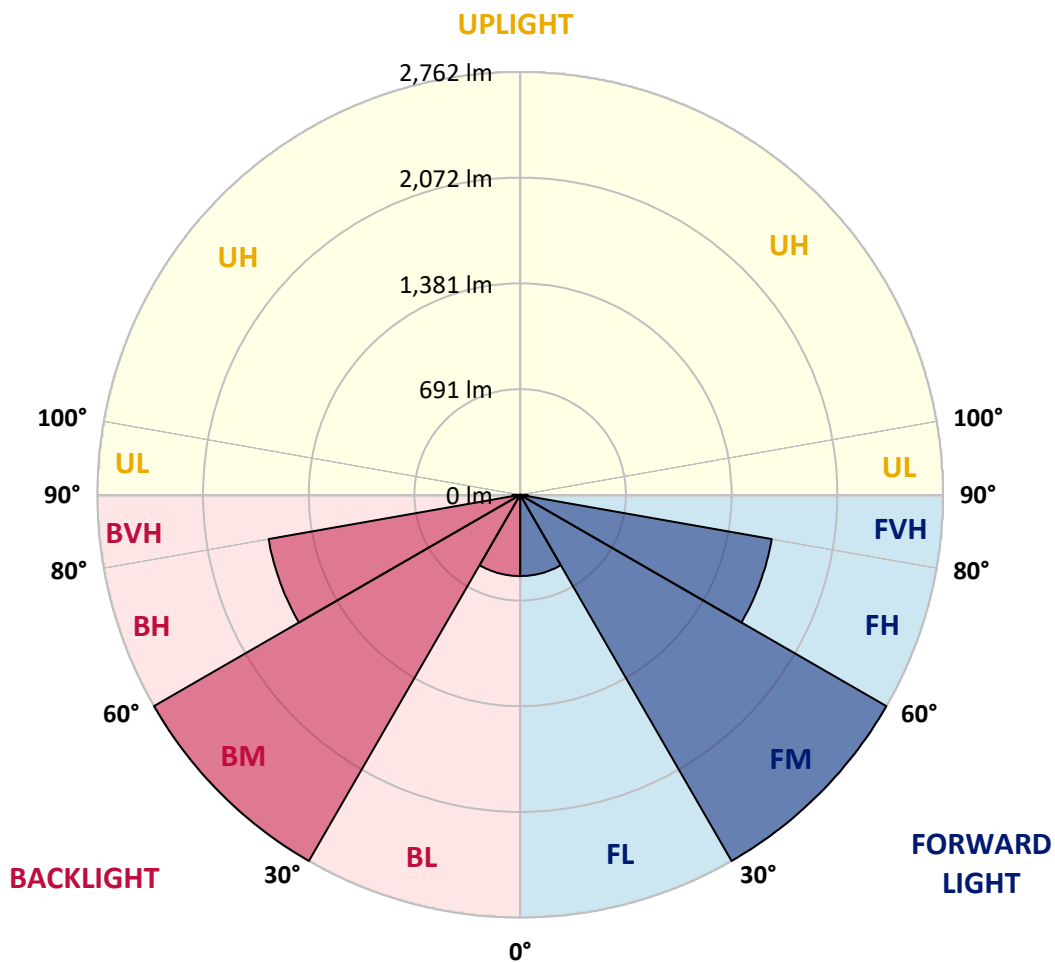
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	530.7	5.3			
FM	(30°-60°)	2762.0	27.6			
FH	(60°-80°)	1668.6	16.6			G1/1800
FVH	(80°-90°)	50.0	0.5			G1/100
BL	(0°-30°)	530.7	5.3	B2/1000		
BM	(30°-60°)	2762.0	27.6	B3/5000		
BH	(60°-80°)	1668.6	16.6	B3/2500		G3/2500
BVH	(80°-90°)	50.0	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°	1111.8	1111.8	1111.8	1111.8	1111.8	1111.8	1111.8	1111.8	1111.8	1111.8	1111.8
2.5°	1109.9	1108.9	1109.9	1109.4	1110.3	1110.3	1111.3	1113.2	1113.2	1114.6	1114.1
5°	1099.0	1098.5	1099.9	1101.3	1102.8	1105.6	1108.4	1112.7	1116.0	1118.4	1120.8
7.5°	1077.7	1077.7	1079.5	1082.9	1086.2	1092.3	1099.0	1107.5	1116.0	1123.1	1129.3
10°	1060.1	1061.1	1063.4	1069.1	1074.8	1084.3	1093.3	1105.6	1117.4	1129.3	1138.8
12.5°	1049.7	1051.1	1055.4	1063.9	1073.4	1086.2	1099.9	1115.5	1128.8	1143.0	1152.5
15°	1053.0	1054.0	1060.1	1070.5	1082.9	1099.0	1117.4	1135.9	1151.5	1166.7	1179.5
17.5°	1071.5	1072.9	1080.0	1091.9	1104.7	1123.6	1143.5	1164.3	1183.8	1200.8	1216.4
20°	1104.7	1106.1	1115.1	1127.9	1143.0	1162.4	1182.3	1204.1	1225.9	1243.9	1261.4
22.5°	1151.5	1153.9	1162.4	1175.2	1192.3	1213.1	1236.8	1260.0	1280.9	1297.4	1313.1
25°	1213.1	1218.3	1226.4	1240.6	1258.6	1277.5	1303.1	1326.8	1346.7	1362.3	1373.7
27.5°	1300.3	1307.4	1313.6	1327.3	1344.8	1362.8	1388.4	1409.2	1428.2	1443.3	1451.9
30°	1415.9	1423.0	1429.1	1442.4	1458.5	1475.6	1499.7	1518.2	1530.0	1541.9	1541.4
32.5°	1556.1	1563.7	1566.0	1580.2	1596.8	1615.3	1637.1	1647.5	1657.0	1658.4	1649.9
35°	1712.9	1716.7	1726.1	1745.1	1764.0	1779.2	1800.0	1805.2	1805.2	1798.1	1779.2
37.5°	1884.8	1887.2	1900.5	1921.8	1941.2	1956.8	1971.0	1981.5	1976.2	1961.1	1929.4
40°	2073.4	2077.6	2096.6	2115.5	2137.3	2152.0	2167.1	2169.0	2163.8	2141.6	2098.5
42.5°	2253.4	2257.1	2276.1	2305.9	2334.4	2354.7	2368.9	2371.8	2355.2	2334.8	2281.3
45°	2408.3	2418.2	2442.8	2477.9	2519.1	2548.0	2567.4	2575.5	2560.8	2534.3	2472.2
47.5°	2530.9	2540.9	2575.9	2617.6	2668.8	2715.7	2747.9	2764.9	2761.2	2741.3	2673.5
50°	2620.9	2630.4	2668.3	2719.5	2779.2	2837.4	2892.4	2933.1	2947.3	2938.3	2876.3
52.5°	2631.4	2647.0	2691.5	2760.2	2837.9	2917.5	2995.6	3064.8	3111.7	3118.8	3072.8
55°	2485.9	2501.6	2563.2	2665.0	2780.6	2910.4	3035.4	3152.0	3244.3	3291.7	3267.5
57.5°	2143.0	2170.9	2235.8	2355.2	2525.3	2719.5	2918.9	3125.9	3314.0	3439.5	3463.6
60°	1642.3	1675.5	1740.8	1867.8	2057.2	2288.9	2555.1	2861.1	3193.2	3475.5	3644.1
62.5°	1053.5	1084.8	1153.4	1263.8	1418.2	1669.3	1954.9	2318.3	2764.5	3210.2	3611.9
65°	541.4	558.5	594.5	661.3	781.6	969.2	1225.4	1587.8	2098.0	2647.9	3228.7
67.5°	343.0	346.3	354.3	363.8	394.6	459.5	578.9	804.8	1224.5	1798.1	2477.9
70°	296.5	296.5	292.7	291.3	295.1	304.1	322.6	375.2	516.8	853.6	1429.1
72.5°	271.4	268.6	262.0	256.7	255.8	255.8	259.6	267.6	290.4	347.7	559.4
75°	250.1	242.1	233.1	226.9	224.5	222.2	221.7	223.1	227.8	236.8	267.2
77.5°	224.1	213.6	203.2	197.1	194.2	190.9	188.1	184.7	182.4	185.2	198.5
80°	192.8	181.0	172.9	169.1	166.3	161.5	155.4	149.7	144.5	143.5	151.6
82.5°	155.4	141.6	142.1	143.5	138.3	131.7	125.1	118.9	109.9	105.2	109.9
85°	125.5	118.4	115.1	124.1	116.5	106.6	96.2	85.3	71.1	59.7	64.9
87.5°	48.8	48.8	72.9	112.3	100.9	82.4	70.6	60.2	37.4	28.9	29.4
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°	1111.8	1111.8	1111.8	1111.8	1111.8	1111.8	1111.8	1111.8
2.5°	1113.7	1114.6	1114.1	1113.7	1113.7	1113.2	1113.7	1113.7
5°	1122.2	1124.5	1124.5	1125.5	1125.5	1126.0	1126.4	1126.0
7.5°	1135.0	1139.2	1142.1	1145.4	1145.9	1146.3	1147.3	1146.3
10°	1147.8	1156.3	1162.4	1168.6	1171.4	1172.4	1173.3	1173.3
12.5°	1163.9	1175.7	1186.6	1197.5	1202.7	1205.5	1205.5	1207.4
15°	1190.4	1202.2	1215.0	1229.7	1238.7	1243.4	1244.9	1244.9
17.5°	1227.8	1238.2	1249.1	1263.3	1274.7	1280.9	1282.3	1281.8
20°	1271.4	1281.3	1287.5	1296.5	1306.4	1313.6	1315.4	1315.4
22.5°	1321.1	1326.8	1327.8	1330.6	1338.7	1348.1	1352.4	1353.3
25°	1376.1	1377.5	1373.7	1373.7	1378.9	1387.9	1392.2	1392.7
27.5°	1447.1	1440.0	1430.6	1427.2	1430.6	1441.0	1446.2	1448.1
30°	1535.7	1518.7	1496.9	1485.0	1483.1	1496.9	1506.3	1507.8
32.5°	1637.1	1612.5	1583.6	1559.4	1553.2	1561.8	1573.1	1572.7
35°	1757.4	1728.0	1693.0	1662.2	1648.0	1656.5	1672.6	1674.5
37.5°	1896.2	1857.8	1817.6	1778.7	1756.5	1758.8	1775.9	1781.6
40°	2051.1	2001.4	1950.7	1898.6	1866.8	1860.7	1881.5	1884.8
42.5°	2216.9	2152.9	2089.0	2024.6	1983.8	1974.4	1998.5	1997.1
45°	2393.6	2312.1	2237.3	2166.2	2117.9	2103.7	2123.6	2123.6
47.5°	2583.5	2483.1	2394.0	2313.5	2260.9	2240.6	2259.5	2260.9
50°	2784.8	2678.3	2573.6	2484.0	2421.0	2395.0	2419.6	2423.4
52.5°	2985.2	2881.5	2775.8	2673.5	2597.3	2565.5	2593.9	2606.3
55°	3188.4	3086.6	2985.7	2885.7	2795.3	2757.8	2788.2	2803.8
57.5°	3403.0	3308.7	3212.6	3111.7	3024.5	2966.3	2998.5	3019.3
60°	3654.5	3574.0	3474.1	3362.7	3274.6	3215.4	3233.9	3252.4
62.5°	3853.5	3884.8	3800.0	3671.1	3557.9	3482.1	3500.1	3519.5
65°	3757.3	4078.0	4153.3	4023.1	3866.3	3748.3	3740.8	3750.7
67.5°	3140.6	3763.5	4217.8	4341.9	4210.7	4046.8	4016.4	4031.1
70°	2100.8	2876.7	3678.2	4275.1	4433.8	4370.3	4340.4	4349.4
72.5°	1009.0	1675.5	2495.4	3288.9	3772.0	3993.7	4064.8	4099.3
75°	369.0	665.1	1202.7	1812.3	2188.0	2532.8	2757.8	2849.7
77.5°	222.6	268.6	384.2	578.4	655.1	733.3	703.0	718.1
80°	164.8	186.2	210.8	236.8	245.4	245.4	235.9	228.3
82.5°	115.6	129.3	141.2	155.4	159.2	152.1	125.1	99.5
85°	74.4	80.5	85.7	94.7	92.4	88.1	59.2	52.6
87.5°	34.1	38.8	40.7	45.0	43.1	41.2	29.4	24.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)