

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: P527307

Luminaire Tested: **GALN-SA2B-740-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-740-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6833 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

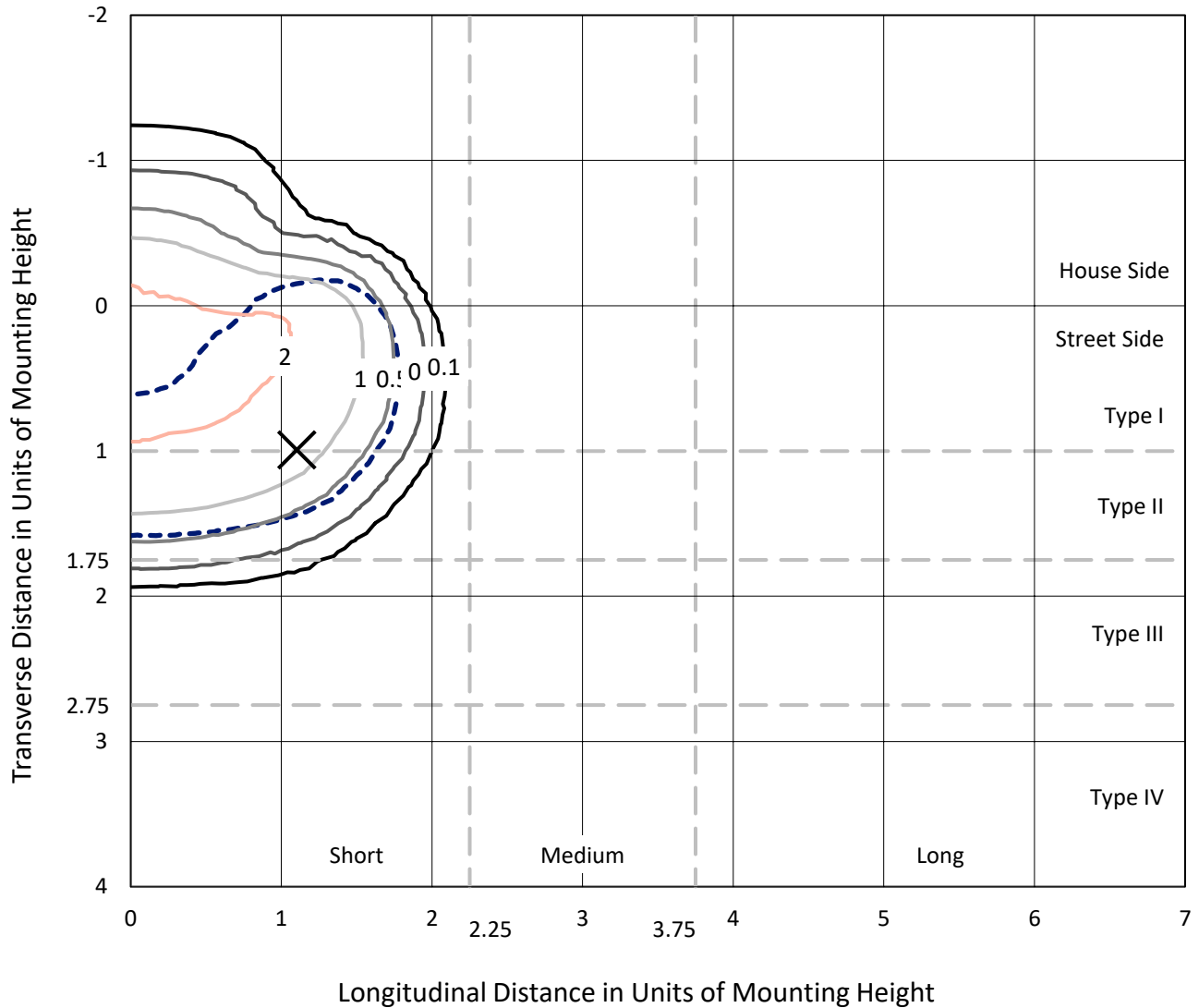
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

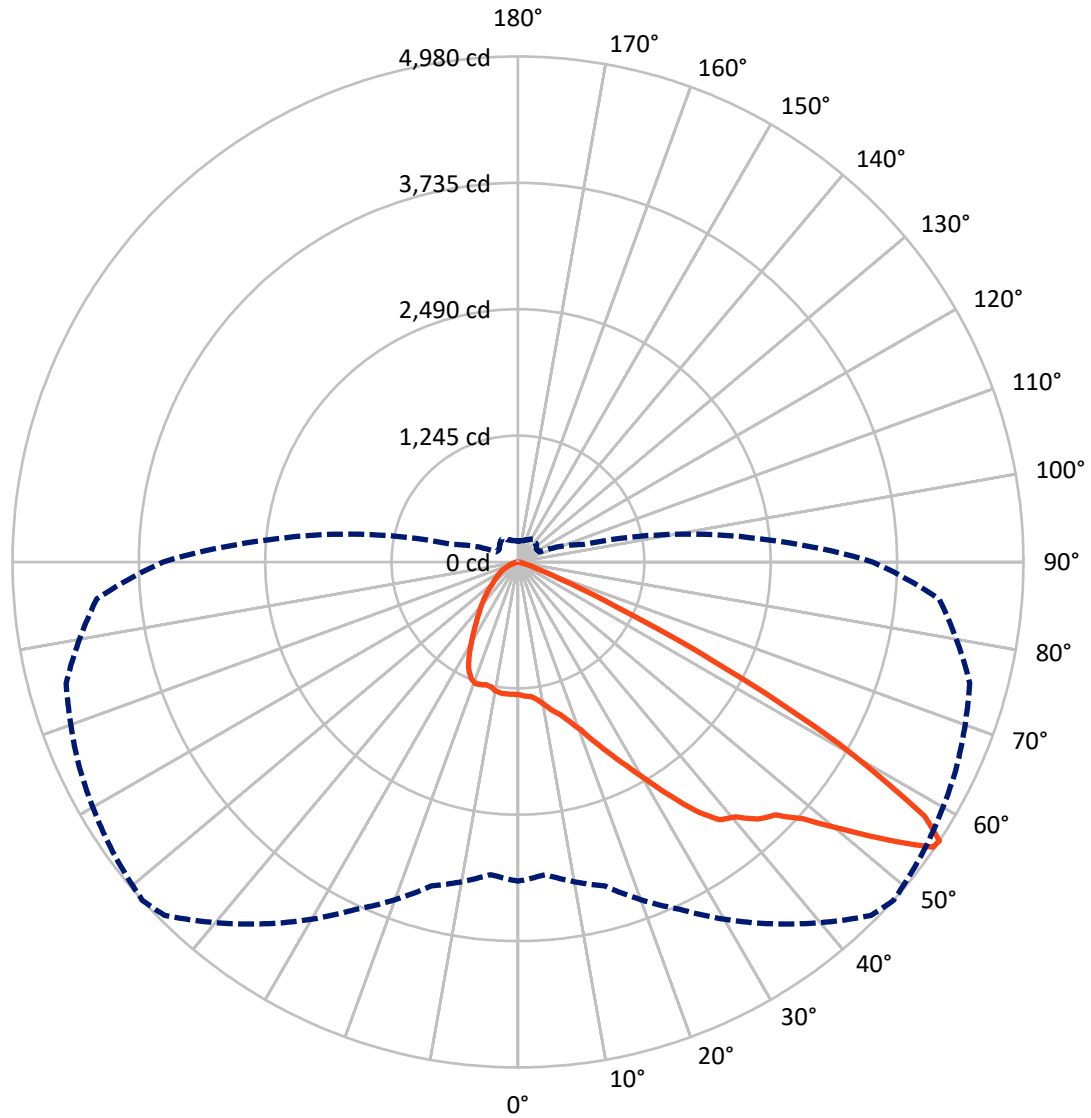
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1486.0	0.0	1486.0
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	5346.9	0.0	5346.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	6833.0	0.0	6833.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	1.9
10°-20°	406.3	5.9
20°-30°	736.9	10.8
30°-40°	1157.6	16.9
40°-50°	1688.7	24.7
50°-60°	2034.5	29.8
60°-70°	595.7	8.7
70°-80°	75.6	1.1
80°-90°	10.6	0.2
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°	6833.0	100.0
0°-180°	6833.0	100.0

Coefficient of Utilization

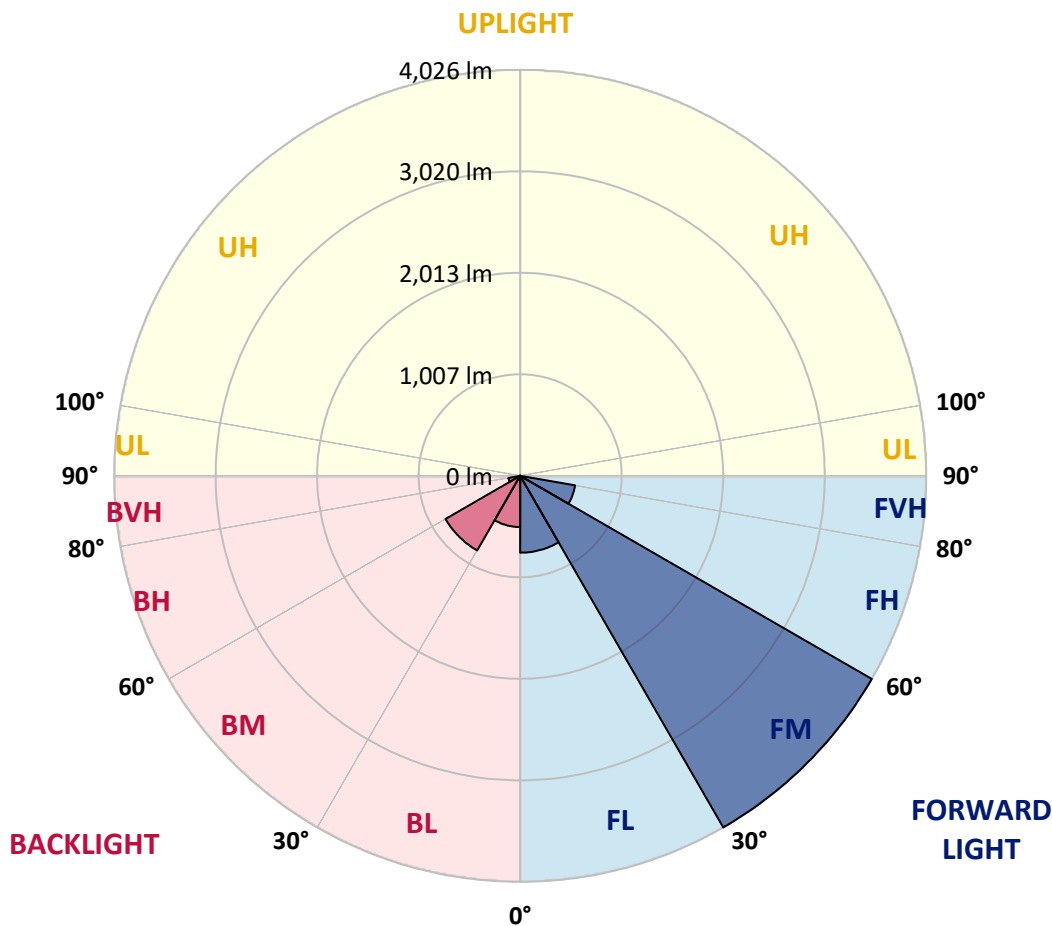


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	762.4	11.2			
FM (30°-60°)	4026.0	58.9			
FH (60°-80°)	553.2	8.1			G0/660
FVH (80°-90°)	5.3	0.1			G0/10
BL (0°-30°)	507.9	7.4	B2/1000		
BM (30°-60°)	854.8	12.5	B1/1000		
BH (60°-80°)	118.1	1.7	B1/500		G1/500
BVH (80°-90°)	5.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1
2.5°	1328.7	1322.5	1322.5	1312.6	1323.8	1318.8	1322.5	1310.1	1322.5	1303.9	1318.8
5°	1335.0	1336.2	1331.2	1337.5	1337.5	1344.9	1332.5	1343.7	1349.9	1336.2	1330.0
7.5°	1367.3	1369.8	1368.6	1363.6	1373.5	1372.3	1371.0	1362.3	1364.8	1359.8	1352.4
10°	1430.8	1429.5	1435.7	1423.3	1415.8	1424.5	1427.0	1413.3	1403.4	1399.7	1376.0
12.5°	1522.8	1507.9	1499.2	1486.8	1490.5	1478.0	1500.4	1476.8	1471.8	1449.4	1425.8
15°	1597.5	1595.0	1596.2	1576.3	1553.9	1558.9	1558.9	1546.5	1539.0	1511.6	1478.0
17.5°	1750.5	1698.3	1709.5	1684.6	1665.9	1664.7	1653.5	1656.0	1636.0	1578.8	1527.8
20°	1869.9	1847.6	1830.1	1787.8	1759.2	1767.9	1763.0	1750.5	1744.3	1669.6	1597.5
22.5°	1976.9	1984.4	1955.8	1944.6	1904.8	1908.5	1918.5	1907.3	1860.0	1782.9	1675.9
25°	2127.5	2118.8	2080.2	2066.5	2029.2	2042.9	2081.5	2072.7	2042.9	1903.5	1736.8
27.5°	2305.4	2275.5	2283.0	2220.8	2184.7	2223.3	2269.3	2312.9	2228.3	2045.4	1809.0
30°	2431.1	2400.0	2397.5	2395.0	2386.3	2431.1	2484.6	2524.4	2455.9	2187.2	1928.4
32.5°	2493.3	2500.7	2521.9	2514.4	2590.3	2682.4	2738.4	2795.6	2709.7	2418.6	2086.4
35°	2658.7	2611.5	2658.7	2663.7	2742.1	2937.4	3008.3	3145.2	3124.0	2745.8	2279.3
37.5°	2755.8	2752.0	2758.3	2805.5	2881.4	3122.8	3223.6	3329.3	3289.5	2942.4	2519.4
40°	2916.3	2926.2	2925.0	2961.1	3044.4	3262.1	3303.2	3389.0	3392.8	3214.9	2872.7
42.5°	3173.8	3134.0	3107.9	3145.2	3262.1	3382.8	3464.9	3447.5	3570.7	3545.8	3326.8
45°	3405.2	3428.9	3390.3	3452.5	3494.8	3559.5	3557.0	3594.3	3751.1	3869.3	3669.0
47.5°	3621.7	3636.6	3655.3	3697.6	3789.7	3799.6	3778.5	3762.3	3978.8	4100.7	3934.0
50°	3751.1	3764.8	3851.9	3927.8	4099.5	4121.8	4134.3	4093.2	4240.0	4253.7	4184.1
52.5°	3716.3	3731.2	3853.1	4103.2	4376.9	4582.2	4544.9	4475.2	4466.5	4520.0	4415.5
55°	3407.7	3394.0	3562.0	3951.4	4464.0	4956.7	4961.6	4888.2	4747.6	4711.6	4380.6
56°	3145.2	3091.7	3305.7	3776.0	4352.0	4924.3	4980.3	4901.9	4770.0	4608.3	4165.4
57.5°	2576.6	2627.6	2840.4	3229.8	3965.1	4691.7	4724.0	4705.3	4605.8	4334.6	3665.2
60°	1420.8	1510.4	1698.3	2174.8	2823.0	3600.5	3626.7	3778.5	3797.1	3319.4	2521.9
62.5°	603.4	593.5	788.8	1139.6	1607.4	2173.5	2222.0	2377.6	2406.2	1913.5	1265.3
65°	245.1	258.8	357.1	573.5	849.7	990.3	1058.8	1109.8	1204.3	790.0	466.6
67.5°	161.7	160.5	210.3	327.2	457.8	441.7	441.7	466.6	431.7	322.2	201.6
70°	115.7	119.4	150.5	226.4	284.9	211.5	202.8	194.1	220.2	212.7	163.0
72.5°	75.9	80.9	100.8	135.6	148.1	115.7	115.7	139.3	181.6	171.7	133.1
75°	49.8	51.0	62.2	78.4	73.4	59.7	65.9	93.3	131.9	126.9	94.6
77.5°	33.6	34.8	42.3	51.0	41.1	33.6	36.1	47.3	64.7	64.7	49.8
80°	12.4	13.7	17.4	16.2	18.7	23.6	26.1	32.3	38.6	38.6	33.6
82.5°	0.0	1.2	3.7	8.7	13.7	18.7	21.2	24.9	28.6	32.3	31.1
85°	0.0	1.2	3.7	6.2	10.0	11.2	12.4	8.7	7.5	7.5	6.2
87.5°	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	2.5	1.2	1.2
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°	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1
2.5°	1305.1	1303.9	1303.9	1300.1	1307.6	1303.9	1306.4	1305.1	1288.9	1301.4	1292.7
5°	1318.8	1327.5	1313.8	1311.3	1301.4	1305.1	1305.1	1292.7	1303.9	1302.6	1300.1
7.5°	1353.6	1338.7	1323.8	1308.8	1306.4	1302.6	1288.9	1284.0	1292.7	1282.7	1297.6
10°	1368.6	1371.0	1348.7	1328.7	1310.1	1284.0	1265.3	1254.1	1240.4	1255.3	1264.0
12.5°	1437.0	1412.1	1373.5	1342.4	1279.0	1252.9	1234.2	1229.2	1252.9	1257.8	1249.1
15°	1460.6	1456.9	1407.1	1337.5	1271.5	1240.4	1244.1	1234.2	1236.7	1224.2	1226.7
17.5°	1509.1	1466.8	1408.4	1321.3	1270.3	1262.8	1240.4	1200.6	1178.2	1168.3	1177.0
20°	1562.6	1521.6	1437.0	1327.5	1281.5	1261.6	1188.2	1139.6	1093.6	1068.7	1070.0
22.5°	1609.9	1558.9	1424.5	1330.0	1291.4	1209.3	1121.0	1025.2	967.9	929.4	930.6
25°	1667.2	1595.0	1429.5	1335.0	1265.3	1125.9	999.0	905.7	837.3	811.2	819.9
27.5°	1699.5	1617.4	1456.9	1346.2	1196.9	1007.8	870.9	783.8	744.0	731.6	730.3
30°	1796.5	1667.2	1490.5	1323.8	1082.4	880.9	754.0	700.5	661.9	650.7	653.2
32.5°	1940.9	1758.0	1534.0	1265.3	965.5	767.6	678.1	638.2	602.2	581.0	578.5
35°	2061.5	1913.5	1580.1	1174.5	829.8	680.5	624.6	574.8	520.1	496.4	490.2
37.5°	2291.7	2088.9	1570.1	1037.6	700.5	615.9	567.3	506.4	459.1	426.7	423.0
40°	2597.8	2294.2	1521.6	870.9	604.7	558.6	506.4	447.9	389.4	362.0	359.6
42.5°	2969.8	2545.5	1433.3	701.7	508.9	501.4	454.1	386.9	334.7	314.8	316.0
45°	3272.1	2760.8	1343.7	563.6	437.9	445.4	404.3	340.9	304.8	288.6	288.6
47.5°	3540.8	2906.3	1246.6	465.3	372.0	389.4	353.3	316.0	284.9	272.5	270.0
50°	3799.6	3054.4	1149.6	377.0	317.3	334.7	330.9	301.1	276.2	261.3	262.5
52.5°	3961.4	3078.0	1026.4	308.5	277.4	297.4	309.8	282.4	255.0	246.3	243.9
55°	3763.5	2773.2	796.3	253.8	235.1	261.3	284.9	253.8	232.7	217.7	216.5
56°	3497.3	2479.6	665.6	233.9	222.7	251.3	276.2	242.6	219.0	210.3	204.0
57.5°	2961.1	2029.2	491.4	207.8	206.5	233.9	262.5	231.4	204.0	196.6	196.6
60°	1846.3	1142.1	297.4	174.2	179.2	207.8	236.4	206.5	181.6	181.6	185.4
62.5°	841.0	475.3	180.4	148.1	154.3	179.2	210.3	186.6	172.9	186.6	189.1
65°	286.2	205.3	130.6	118.2	121.9	148.1	180.4	189.1	187.9	196.6	201.6
67.5°	160.5	131.9	109.5	98.3	95.8	109.5	148.1	189.1	181.6	177.9	180.4
70°	135.6	112.0	97.0	87.1	83.4	88.3	114.5	143.1	128.1	124.4	121.9
72.5°	109.5	93.3	84.6	78.4	67.2	57.2	52.3	54.7	61.0	64.7	70.9
75°	77.1	70.9	70.9	63.5	48.5	36.1	28.6	23.6	16.2	11.2	12.4
77.5°	43.5	43.5	44.8	38.6	31.1	23.6	17.4	12.4	6.2	2.5	1.2
80°	29.9	32.3	34.8	31.1	26.1	21.2	14.9	8.7	3.7	0.0	0.0
82.5°	29.9	33.6	36.1	31.1	26.1	19.9	14.9	8.7	3.7	1.2	0.0
85°	6.2	7.5	8.7	10.0	14.9	14.9	11.2	7.5	3.7	1.2	0.0
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0
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)