

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: P451893

Luminaire Tested: **GALN-SA2D-740-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451893
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11421 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

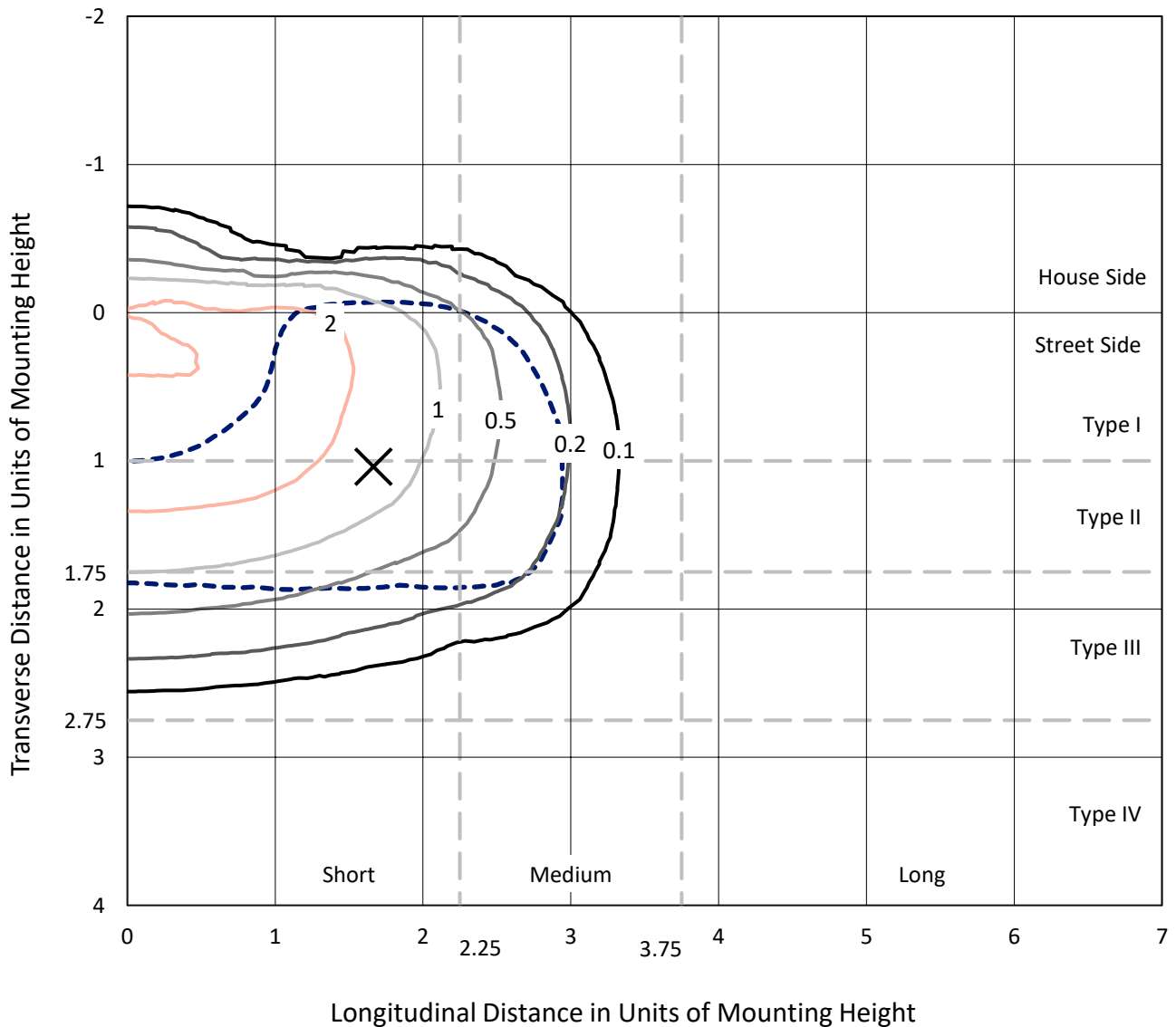
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

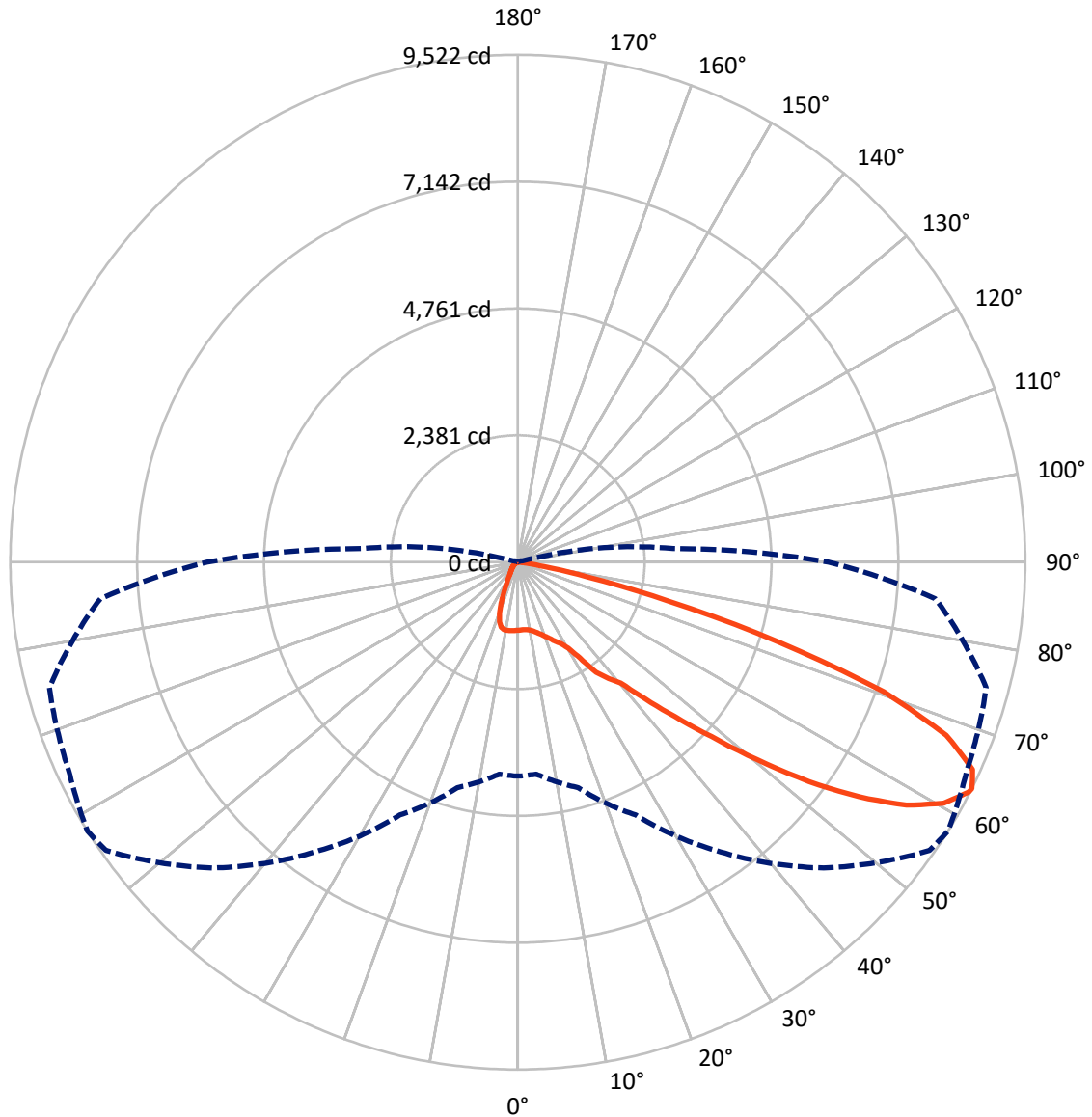
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1182.6	0.0	1182.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	10238.4	0.0	10238.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	11421.0	0.0	11421.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	1.0
10°-20°	326.0	2.9
20°-30°	565.8	5.0
30°-40°	1039.7	9.1
40°-50°	1957.3	17.1
50°-60°	3347.8	29.3
60°-70°	3205.5	28.1
70°-80°	817.4	7.2
80°-90°	41.8	0.4
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°	11421.0	100.0
0°-180°	11421.0	100.0

Coefficient of Utilization



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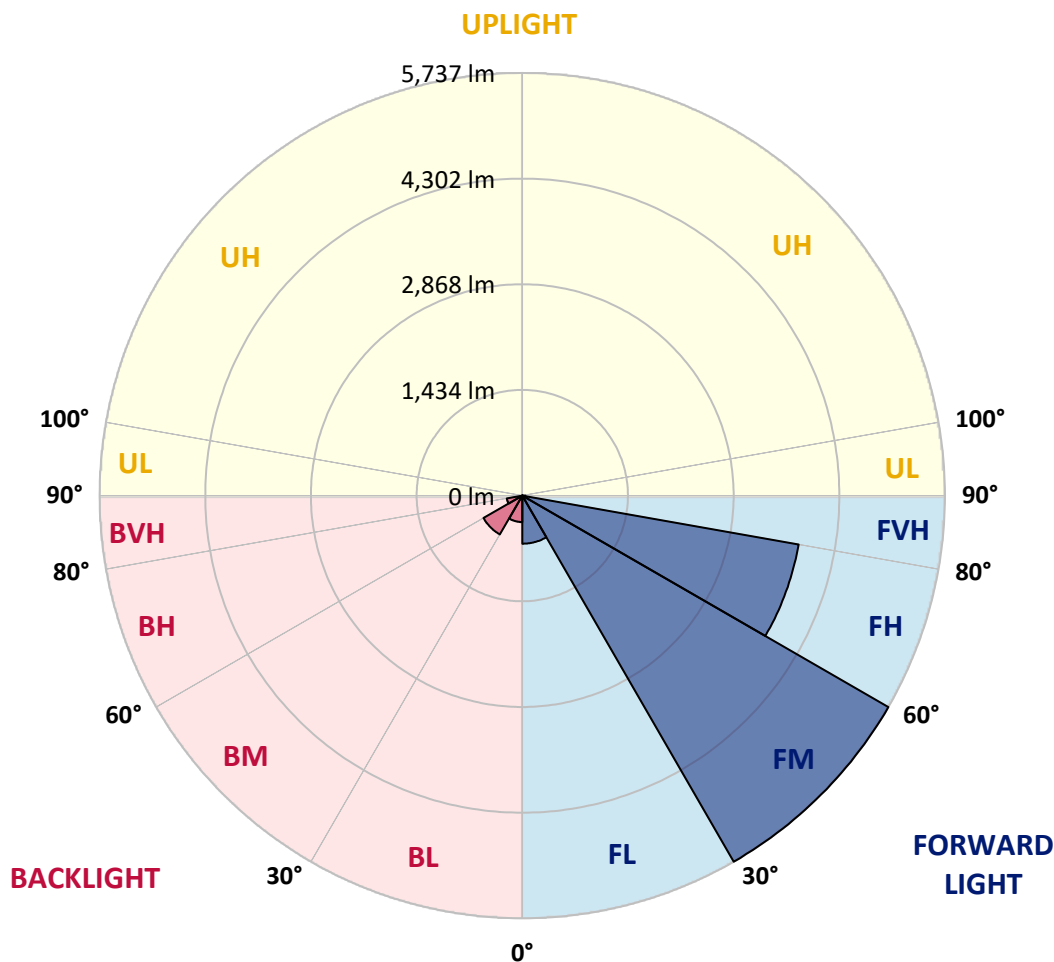
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	652.9	5.7			
FM	(30°-60°)	5736.5	50.2			
FH	(60°-80°)	3808.8	33.3			G2/5000
FVH	(80°-90°)	40.2	0.4			G1/100
BL	(0°-30°)	358.6	3.1	B1/500		
BM	(30°-60°)	608.2	5.3	B1/1000		
BH	(60°-80°)	214.1	1.9	B1/500		G1/500
BVH	(80°-90°)	1.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6
2.5°	1246.8	1251.1	1255.4	1257.1	1263.1	1269.2	1273.5	1272.6	1279.5	1282.9	1282.9
5°	1196.9	1196.9	1208.1	1218.4	1235.6	1252.8	1269.2	1272.6	1285.5	1297.5	1301.8
7.5°	1154.8	1157.4	1166.0	1184.9	1208.1	1238.2	1270.9	1278.6	1301.0	1327.6	1338.8
10°	1135.0	1136.7	1147.9	1167.7	1196.9	1238.2	1283.8	1298.4	1332.8	1374.9	1390.4
12.5°	1130.7	1133.3	1144.5	1166.8	1200.4	1250.2	1312.2	1327.6	1377.5	1431.7	1454.9
15°	1138.5	1140.2	1151.4	1175.4	1212.4	1271.7	1350.0	1371.5	1430.8	1493.6	1523.7
17.5°	1166.0	1164.3	1172.0	1191.8	1233.1	1298.4	1395.6	1421.4	1491.0	1577.0	1596.8
20°	1282.9	1271.7	1264.9	1247.7	1264.0	1336.2	1450.6	1488.4	1574.4	1662.1	1675.9
22.5°	1534.9	1509.9	1460.9	1393.8	1342.3	1387.8	1516.8	1560.7	1671.6	1757.6	1757.6
25°	1855.6	1823.8	1774.8	1628.6	1502.2	1473.0	1591.6	1646.6	1777.3	1864.2	1835.8
27.5°	2257.2	2232.2	2136.8	1966.5	1773.0	1621.7	1678.5	1729.2	1871.1	1976.0	1916.6
30°	2583.9	2571.9	2493.6	2341.4	2128.2	1907.2	1840.1	1873.7	1995.8	2117.0	2055.9
32.5°	2859.9	2859.9	2780.0	2638.1	2438.6	2242.5	2114.4	2138.5	2255.4	2395.6	2282.1
35°	3163.5	3153.1	3088.6	2953.6	2730.1	2557.3	2504.8	2537.5	2643.2	2747.3	2467.8
37.5°	3482.5	3479.0	3412.0	3281.3	3099.0	2881.4	2758.5	2767.1	2821.2	2884.9	2685.4
40°	3829.0	3834.2	3746.4	3665.6	3493.6	3270.9	3035.3	2981.2	3031.9	3211.6	3086.9
42.5°	4238.3	4226.3	4188.4	4078.4	3939.9	3806.6	3523.7	3504.0	3548.7	3741.3	3606.3
45°	4713.8	4731.0	4665.6	4604.6	4511.7	4400.8	4164.3	4130.0	4179.0	4478.2	4286.4
47.5°	5190.2	5173.8	5216.0	5204.8	5254.7	5172.1	4963.2	4892.7	5010.5	5294.2	5012.2
50°	5553.0	5571.1	5658.8	5786.9	6001.0	6047.5	5847.1	5823.0	5875.5	6057.8	5661.4
52.5°	5788.6	5848.8	5986.4	6315.7	6701.8	7001.9	6849.7	6836.8	6815.3	6864.3	6282.2
55°	5942.6	6003.6	6183.3	6668.3	7333.0	7820.5	7828.2	7773.2	7631.3	7596.1	6862.6
57.5°	5848.0	5860.0	6116.2	6764.6	7682.9	8404.4	8657.2	8602.1	8339.9	8206.6	7375.1
60°	5256.4	5281.3	5638.2	6400.0	7530.7	8595.3	9206.6	9181.7	8894.5	8744.0	7774.1
62.5°	4208.2	4280.4	4647.6	5497.1	6823.1	8273.7	9429.3	9499.8	9276.3	9069.0	7899.6
63°	4015.6	3992.4	4380.2	5234.0	6635.6	8114.6	9432.8	9522.2	9293.5	9100.0	7865.2
65°	2972.6	3042.2	3294.2	4127.4	5522.1	7374.2	9220.4	9378.6	9229.8	8963.3	7484.3
67.5°	1669.0	1665.6	1944.2	2700.8	3865.1	5784.3	8337.3	8671.8	8640.8	8043.2	6204.0
70°	816.9	829.8	944.1	1399.9	2241.7	3990.7	6928.0	7289.1	7300.3	6317.5	4289.9
72.5°	369.7	375.8	457.5	681.9	1152.2	2124.7	4774.0	5118.8	5055.2	4025.9	2368.9
75°	195.2	208.1	251.9	343.1	555.5	876.2	2596.8	2930.4	2797.2	1839.3	871.9
77.5°	144.5	148.8	171.1	218.4	297.5	341.4	1120.4	1332.8	1248.5	665.5	288.9
80°	105.8	109.2	127.3	154.8	187.5	173.7	422.2	484.1	434.2	226.1	88.6
82.5°	64.5	65.4	92.9	115.2	117.8	97.2	139.3	149.6	156.5	127.3	48.2
85°	23.2	29.2	62.8	83.4	69.6	49.0	58.5	64.5	70.5	80.8	28.4
87.5°	2.6	3.4	30.1	40.4	19.8	18.1	21.5	24.1	25.8	30.1	13.8
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°	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6
2.5°	1286.4	1289.8	1287.2	1282.9	1282.1	1279.5	1274.3	1274.3	1274.3	1276.0	1274.3
5°	1305.3	1307.9	1301.8	1293.2	1283.8	1271.7	1258.8	1251.1	1250.2	1248.5	1244.2
7.5°	1341.4	1344.8	1331.1	1310.4	1284.6	1255.4	1227.9	1202.1	1190.1	1180.6	1180.6
10°	1393.8	1397.3	1369.8	1332.8	1281.2	1221.9	1156.5	1097.2	1050.8	1029.3	1024.1
12.5°	1456.6	1458.3	1412.8	1348.3	1263.1	1148.8	1009.5	879.6	789.4	748.1	743.8
15°	1525.4	1513.4	1453.2	1354.3	1211.6	998.3	757.5	598.5	504.7	477.2	487.5
17.5°	1595.1	1572.7	1484.1	1344.8	1095.5	757.5	509.0	408.4	379.2	371.5	371.5
20°	1660.4	1629.5	1506.5	1303.6	894.3	521.9	377.5	353.4	348.2	343.1	343.9
22.5°	1725.8	1678.5	1526.3	1211.6	666.4	373.2	337.9	330.2	323.3	316.4	315.6
25°	1789.4	1724.0	1534.0	1041.3	454.0	320.7	308.7	298.4	284.6	276.9	275.2
27.5°	1855.6	1779.1	1528.8	826.3	331.0	287.2	275.2	260.5	244.2	230.4	230.4
30°	1982.9	1884.0	1510.8	594.2	278.6	252.8	237.3	214.1	196.1	182.3	181.4
32.5°	2156.6	2020.7	1448.9	417.9	247.6	222.7	199.5	173.7	154.8	144.5	144.5
35°	2311.3	2158.3	1332.8	307.8	222.7	193.5	165.1	140.2	125.5	118.7	116.1
37.5°	2546.9	2359.5	1172.9	250.2	198.6	167.7	138.4	115.2	103.2	98.0	98.0
40°	2900.3	2605.4	976.8	219.3	175.4	142.7	115.2	97.2	87.7	81.7	81.7
42.5°	3338.9	2906.4	778.2	196.9	153.9	123.0	96.3	82.5	73.9	69.6	68.8
45°	3890.9	3223.6	599.3	176.3	136.7	104.9	81.7	69.6	61.1	58.5	59.3
47.5°	4467.0	3503.1	464.3	158.2	118.7	88.6	69.6	60.2	54.2	50.7	50.7
50°	4958.9	3695.7	352.5	137.6	104.9	74.8	61.1	54.2	49.0	47.3	46.4
52.5°	5369.9	3751.6	270.0	119.5	92.0	64.5	54.2	49.0	44.7	42.1	42.1
55°	5719.8	3702.6	211.5	100.6	77.4	55.9	48.2	43.9	38.7	36.1	35.3
57.5°	5924.5	3545.2	161.7	83.4	62.8	46.4	42.1	37.0	31.0	26.7	26.7
60°	6027.7	3316.5	123.8	68.8	48.2	37.0	34.4	27.5	21.5	18.1	17.2
62.5°	5903.9	3013.0	93.7	54.2	36.1	27.5	23.2	19.8	13.8	10.3	10.3
63°	5827.3	2925.3	90.3	51.6	33.5	25.8	21.5	18.1	12.0	9.5	8.6
65°	5312.3	2542.6	73.9	41.3	26.7	18.1	14.6	12.9	8.6	4.3	3.4
67.5°	4218.5	1945.0	58.5	31.0	18.9	12.9	8.6	7.7	2.6	0.0	0.0
70°	2852.2	1256.3	45.6	22.4	12.9	7.7	4.3	3.4	0.9	0.0	0.0
72.5°	1487.6	644.0	35.3	16.3	7.7	5.2	2.6	0.9	0.0	0.0	0.0
75°	526.2	219.3	25.8	10.3	5.2	2.6	0.9	0.0	0.0	0.0	0.0
77.5°	159.1	81.7	16.3	7.7	3.4	1.7	0.0	0.0	0.0	0.0	0.0
80°	55.9	30.1	9.5	5.2	2.6	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	27.5	14.6	6.0	4.3	2.6	0.9	0.0	0.0	0.0	0.0	0.0
85°	15.5	9.5	5.2	4.3	2.6	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	11.2	6.9	5.2	4.3	3.4	1.7	0.9	0.0	0.0	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)