

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: P451607

Luminaire Tested: **GALN-SA2C-727-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8514 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

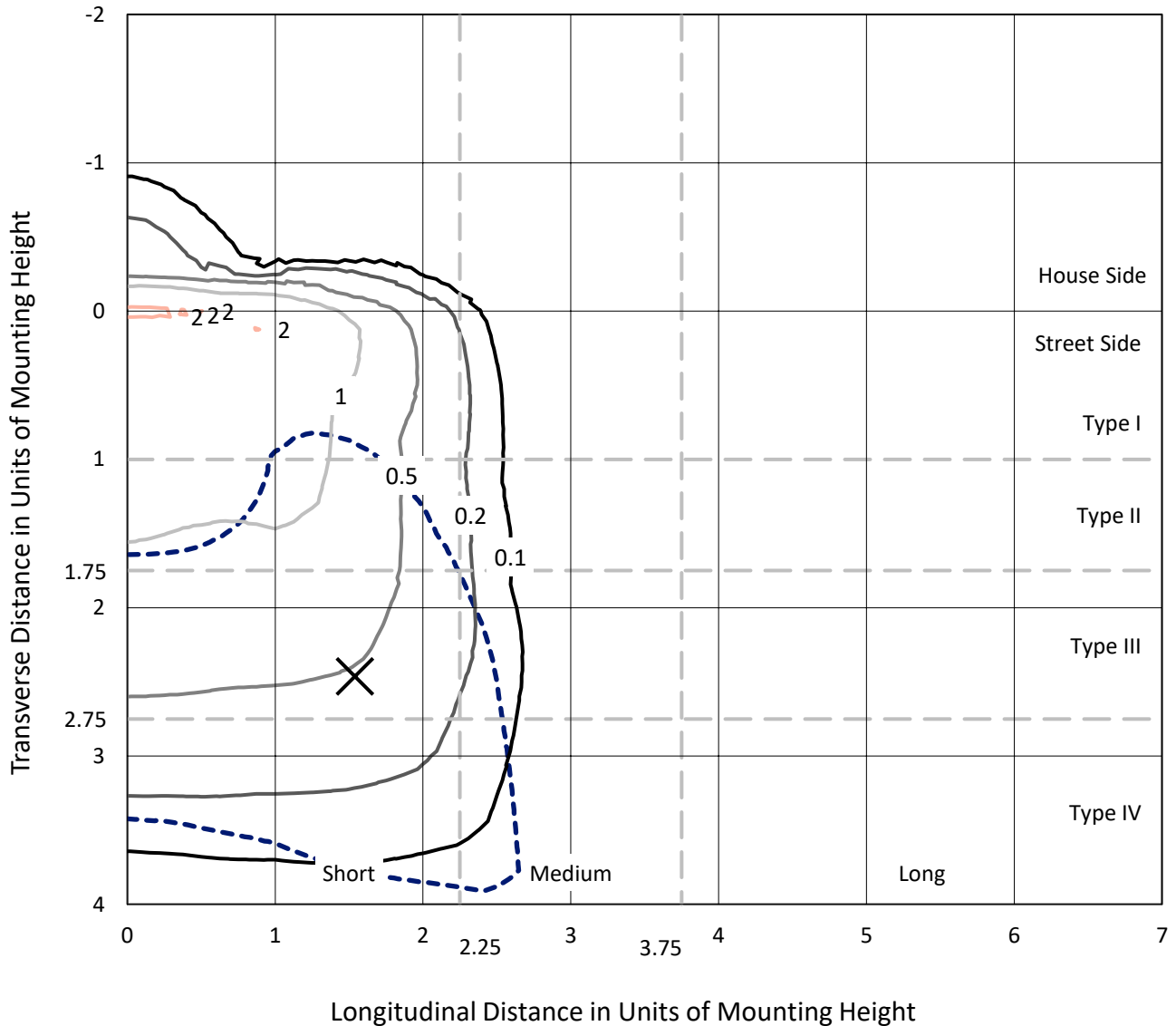
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

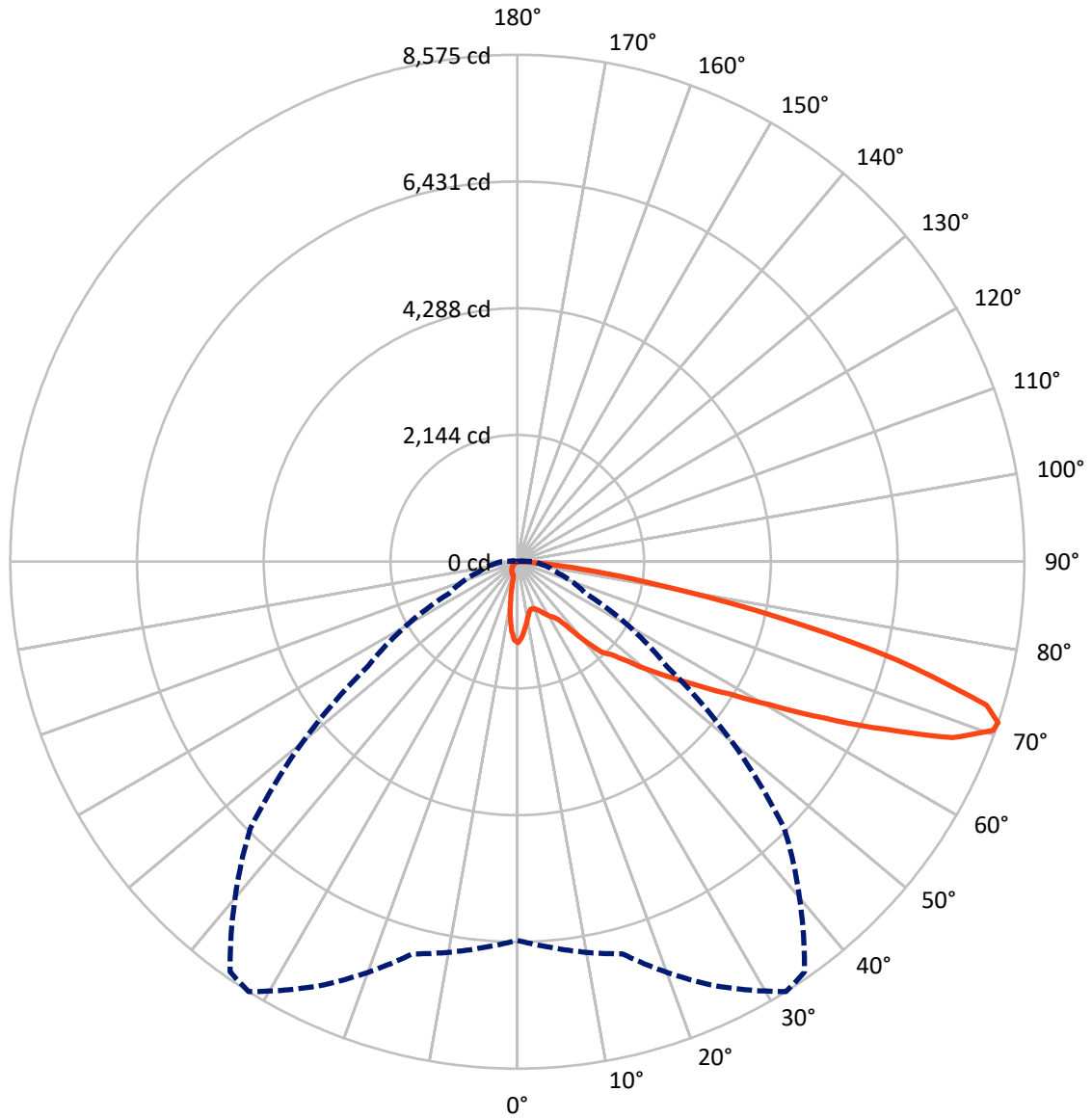
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	713.1	0.0	713.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	7800.9	0.0	7800.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	8514.0	0.0	8514.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.3	1.3
10°-20°	241.6	2.8
20°-30°	375.9	4.4
30°-40°	626.2	7.4
40°-50°	1164.9	13.7
50°-60°	1870.3	22.0
60°-70°	2515.7	29.5
70°-80°	1492.6	17.5
80°-90°	115.4	1.4
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°	8514.0	100.0
0°-180°	8514.0	100.0

Coefficient of Utilization

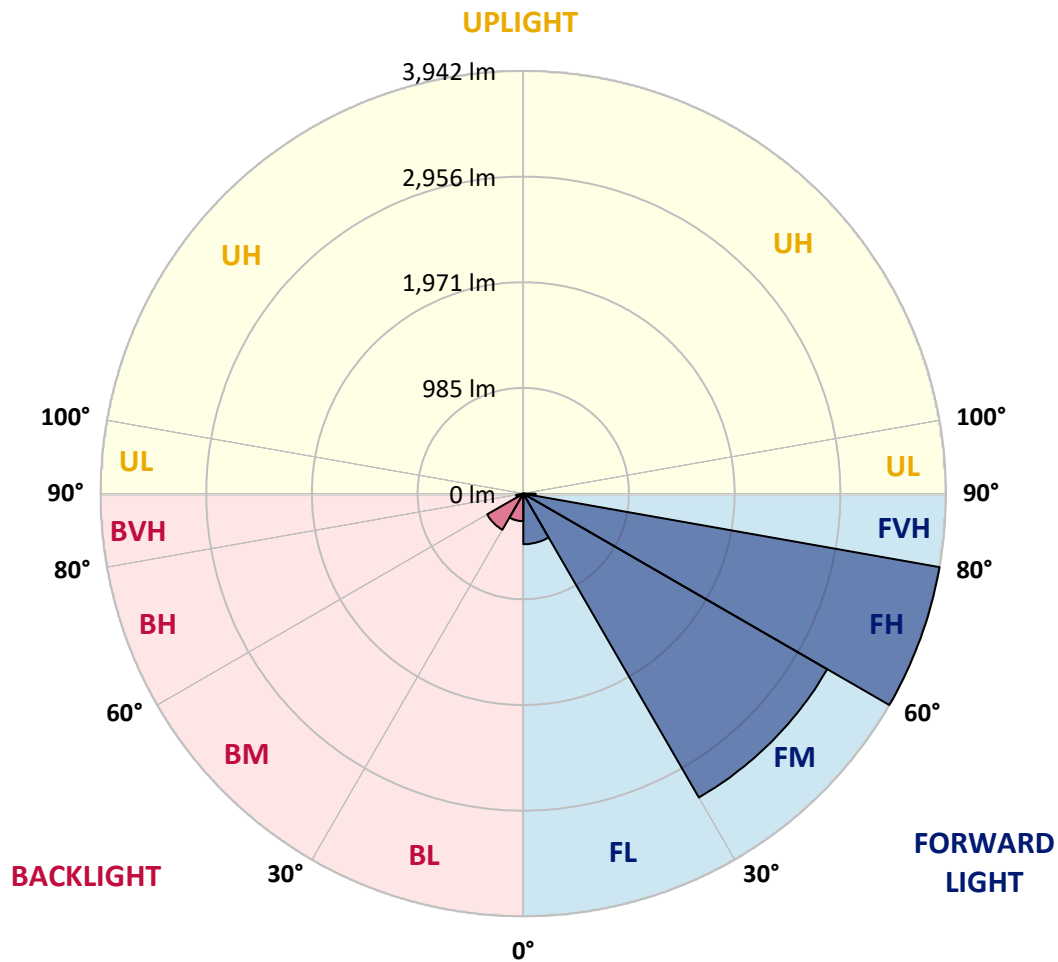


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	471.9	5.5			
FM (30°-60°)	3272.5	38.4			
FH (60°-80°)	3941.6	46.3			G2/5000
FVH (80°-90°)	114.9	1.3			G2/225
BL (0°-30°)	257.0	3.0	B1/500		
BM (30°-60°)	389.0	4.6	B1/1000		
BH (60°-80°)	66.7	0.8	B0/110		G0/110
BVH (80°-90°)	0.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1269.8	1282.9	1281.0	1285.5	1296.6	1301.2	1313.6	1327.4	1346.3	1359.4	1367.9
5°	1137.2	1147.0	1148.3	1171.2	1182.3	1194.7	1231.3	1271.2	1315.6	1350.9	1374.4
7.5°	995.4	1000.6	1011.0	1041.1	1069.2	1081.6	1137.2	1206.5	1276.4	1342.4	1384.9
10°	878.4	884.3	903.2	935.2	961.4	977.7	1054.8	1141.7	1239.8	1337.8	1399.9
12.5°	811.7	815.0	822.2	850.9	884.3	901.9	984.9	1084.2	1210.4	1339.8	1425.4
15°	807.1	805.8	797.3	809.1	839.2	857.5	938.5	1045.0	1184.2	1346.3	1455.5
17.5°	831.3	828.0	807.8	807.8	832.6	847.7	918.9	1024.1	1171.2	1361.3	1497.9
20°	868.6	863.3	830.0	827.4	851.6	867.3	930.7	1025.4	1173.8	1389.4	1554.8
22.5°	915.6	909.7	859.4	860.7	886.9	902.6	964.6	1048.9	1190.1	1424.1	1615.6
25°	977.1	970.5	911.0	908.4	935.9	949.6	1015.0	1090.8	1213.0	1467.2	1695.3
27.5°	1058.7	1045.0	973.8	969.9	999.3	1016.9	1075.7	1147.0	1253.5	1526.7	1802.5
30°	1126.1	1111.0	1043.1	1032.6	1064.0	1077.7	1138.5	1222.8	1333.2	1630.6	1950.8
32.5°	1214.3	1192.1	1112.3	1084.9	1118.2	1135.9	1229.3	1364.0	1451.5	1740.4	2127.3
35°	1413.0	1399.2	1301.9	1205.8	1203.8	1226.1	1363.3	1506.4	1573.1	1911.6	2367.8
37.5°	1697.3	1687.5	1584.2	1455.5	1418.2	1407.7	1526.0	1663.3	1767.2	2146.9	2647.5
40°	2027.3	2004.4	1909.7	1800.5	1752.2	1721.4	1718.2	1896.6	2020.8	2466.5	2939.0
42.5°	2263.9	2222.1	2107.0	2099.2	2088.7	2056.7	1963.9	2237.8	2348.2	2810.3	3250.8
45°	2512.2	2448.8	2277.6	2248.2	2244.3	2242.3	2335.1	2641.6	2705.0	3182.8	3571.0
47.5°	2705.0	2654.7	2514.2	2501.1	2517.5	2561.9	2825.9	3070.4	3057.3	3514.8	3839.6
50°	2961.9	2924.0	2767.8	2792.6	2876.9	2949.5	3379.5	3537.7	3346.8	3776.2	4035.0
52.5°	3265.1	3195.2	3050.1	3117.4	3246.8	3367.7	3967.0	3946.8	3550.1	3972.9	4180.8
55°	3527.9	3478.2	3428.5	3498.4	3691.9	3842.9	4497.7	4253.3	3697.8	4131.1	4244.8
57.5°	3972.3	3960.5	3909.5	3980.8	4215.4	4372.2	4972.9	4491.2	3792.5	4213.4	4169.6
60°	4629.7	4610.8	4516.0	4606.9	4912.7	5159.1	5410.7	4704.9	3814.1	4181.4	3953.3
62.5°	5420.5	5355.8	5274.8	5408.8	5828.3	5936.8	5823.1	4831.7	3733.7	3926.5	3431.8
65°	6159.0	6092.4	6094.3	6376.7	6833.5	6907.4	6304.1	4812.7	3498.4	3288.0	2531.2
67.5°	6724.4	6713.3	6793.0	7343.9	7941.3	7890.3	6734.2	4529.1	2801.1	2131.2	1345.0
70°	6753.1	6774.7	7003.4	7933.4	8539.9	8458.9	6697.6	3681.4	1746.3	980.3	530.0
71°	6405.4	6550.5	6866.8	7915.1	8575.2	8470.0	6389.1	3083.4	1281.0	683.6	382.3
72.5°	5458.4	5534.9	6218.5	7449.1	8296.1	8071.3	5606.8	2161.3	820.2	418.3	219.6
75°	3006.3	3194.5	4164.4	5844.0	6635.5	6438.1	3654.0	1026.7	409.1	228.7	90.8
77.5°	1431.3	1394.7	2031.9	3475.6	4499.0	4488.6	1841.0	456.2	238.5	154.9	45.7
80°	409.1	460.1	777.7	1652.2	2497.9	2525.3	707.1	220.2	165.3	120.9	23.5
82.5°	123.5	126.1	285.6	730.7	1242.4	1171.2	265.3	112.4	118.9	96.1	13.7
85°	21.6	26.8	84.3	257.5	473.8	359.5	66.7	53.6	78.4	63.4	7.8
87.5°	1.3	2.0	28.1	29.4	41.8	24.2	11.8	7.8	17.0	17.0	4.6
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°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1373.8	1377.7	1375.1	1369.2	1359.4	1347.6	1331.9	1318.9	1307.8	1301.9	1309.1
5°	1382.3	1387.5	1374.4	1345.0	1300.6	1252.2	1197.3	1154.8	1121.5	1111.0	1107.1
7.5°	1395.3	1398.6	1363.3	1297.9	1203.8	1089.5	989.5	905.2	839.8	820.2	791.4
10°	1412.3	1410.4	1343.7	1222.1	1056.8	884.9	730.0	615.0	528.1	496.7	494.1
12.5°	1438.5	1428.0	1318.9	1118.9	881.6	656.8	465.3	364.0	309.1	290.8	286.9
15°	1471.1	1446.3	1279.6	998.0	675.1	424.2	286.9	256.2	249.0	247.7	246.4
17.5°	1509.7	1470.5	1228.0	849.6	474.5	275.1	239.9	239.2	239.9	238.5	237.9
20°	1562.0	1496.0	1166.6	673.8	313.7	232.0	228.7	228.7	229.4	228.7	228.7
22.5°	1617.5	1526.0	1090.8	514.3	236.6	220.2	219.6	220.9	222.2	221.6	221.6
25°	1686.2	1565.2	990.8	352.3	211.7	210.4	211.1	213.7	216.3	217.0	216.3
27.5°	1785.5	1613.6	883.6	242.5	194.1	195.4	201.9	208.5	212.4	213.1	213.1
30°	1897.3	1667.2	743.7	196.7	179.7	179.7	187.6	200.0	208.5	209.8	210.4
32.5°	2041.0	1729.3	588.8	177.1	166.0	164.7	171.9	186.9	202.6	207.2	207.2
35°	2218.8	1802.5	437.9	164.7	156.2	152.9	156.9	169.3	189.5	202.6	203.9
37.5°	2427.3	1871.8	320.2	153.6	147.0	142.5	145.1	154.9	171.2	190.8	196.1
40°	2620.1	1933.2	239.2	144.4	137.9	134.6	136.6	141.2	154.9	173.2	176.5
42.5°	2830.5	1980.9	190.2	134.6	128.7	127.4	127.4	129.4	138.6	149.0	149.7
45°	3040.3	1997.9	159.5	122.9	118.9	120.3	119.6	118.3	122.2	120.9	120.9
47.5°	3190.0	1977.6	132.0	111.8	111.8	113.7	110.4	105.9	103.9	96.1	96.7
50°	3292.6	1903.8	108.5	98.7	103.9	106.5	100.0	92.8	85.6	77.1	75.2
52.5°	3335.1	1772.4	88.9	81.7	92.2	95.4	87.6	79.1	68.0	60.8	58.8
55°	3307.6	1610.3	73.9	66.7	77.8	81.7	73.9	64.0	51.6	43.8	42.5
57.5°	3186.7	1416.9	62.7	52.9	62.1	64.7	59.5	49.0	36.6	28.8	28.8
60°	2977.6	1216.9	51.0	41.8	46.4	50.3	45.1	35.3	24.8	17.6	16.3
62.5°	2553.4	988.2	41.2	32.7	32.7	35.9	31.4	25.5	15.7	9.1	8.5
65°	1843.7	677.7	32.7	24.2	23.5	23.5	19.6	17.0	9.1	3.9	2.6
67.5°	1001.9	382.3	26.1	18.3	16.3	15.7	12.4	9.8	3.9	0.7	0.0
70°	394.1	147.0	20.3	12.4	10.5	9.8	6.5	4.6	2.6	0.0	0.0
71°	267.3	101.3	17.6	10.5	8.5	7.2	5.2	3.9	2.0	0.0	0.0
72.5°	152.9	62.7	13.7	7.8	6.5	5.2	3.9	2.6	2.0	0.0	0.0
75°	66.7	32.0	8.5	5.9	4.6	3.3	2.6	2.0	0.7	0.0	0.0
77.5°	34.0	17.6	5.9	4.6	2.6	2.0	1.3	0.7	0.0	0.0	0.0
80°	19.0	9.1	3.9	2.6	2.0	1.3	0.7	0.7	0.0	0.0	0.0
82.5°	10.5	5.2	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.5	3.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	1.3	0.0	0.0	0.0	0.0	0.7	0.7	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)