

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: P452071

Luminaire Tested: **GALN-SA3A-727-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452071  
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-SA3A-727-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 615mA 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: 8221 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

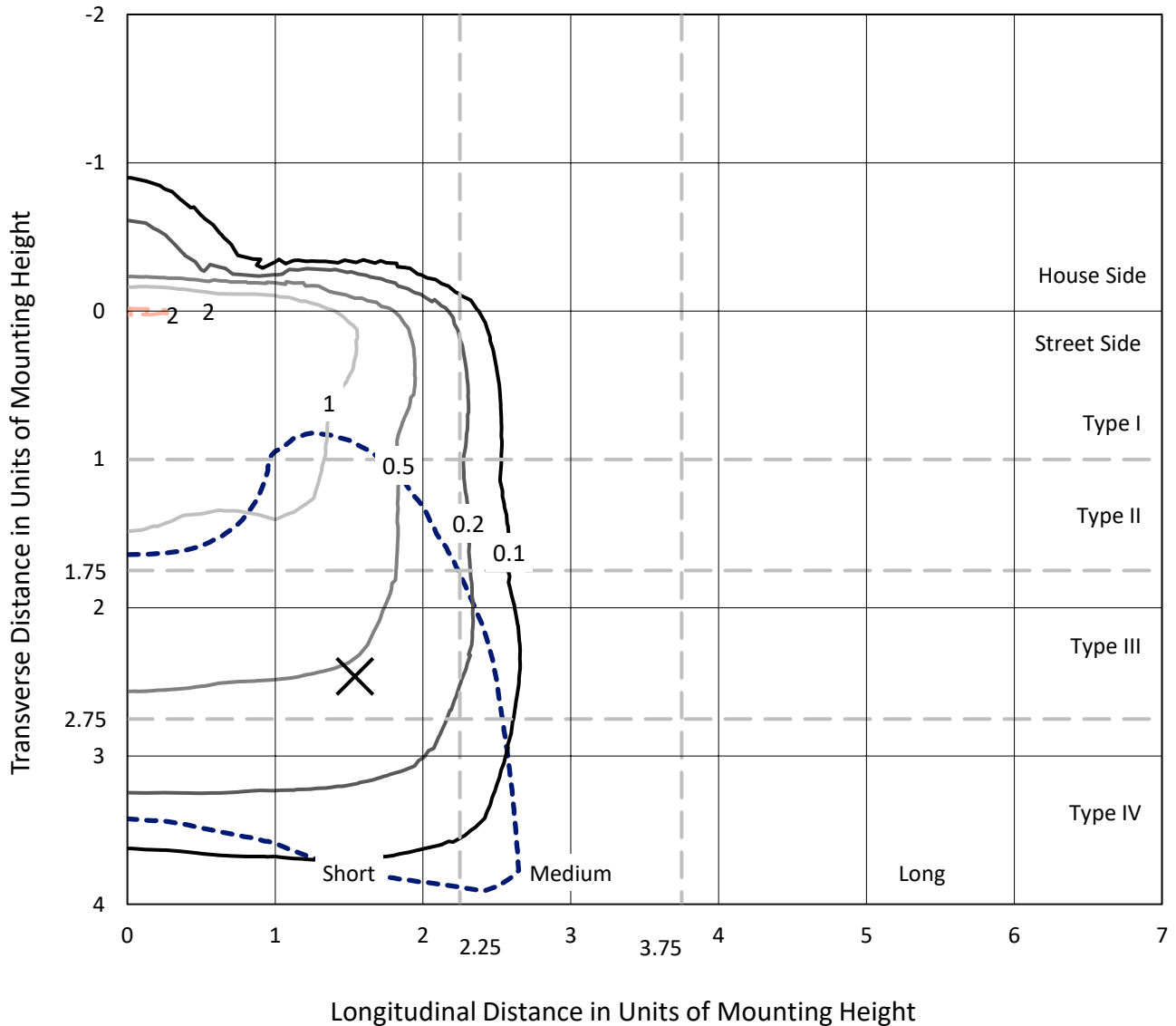
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

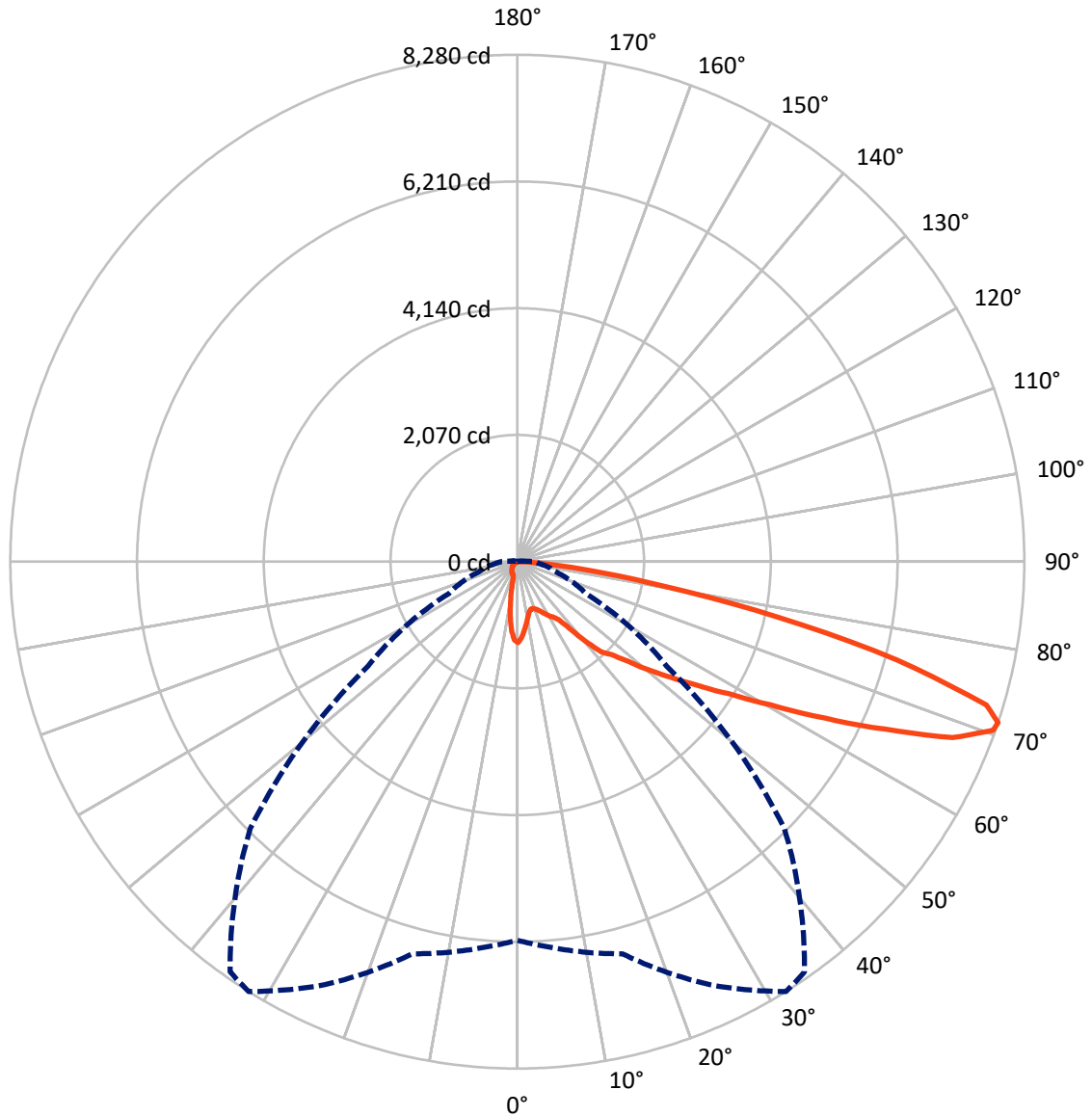
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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
<b>House Side</b>	Lumens	688.6	0.0	688.6
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	7532.4	0.0	7532.4
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	8221.0	0.0	8221.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.5	1.3
10°-20°	233.3	2.8
20°-30°	363.0	4.4
30°-40°	604.7	7.4
40°-50°	1124.8	13.7
50°-60°	1806.0	22.0
60°-70°	2429.1	29.5
70°-80°	1441.2	17.5
80°-90°	111.4	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°	8221.0	100.0
0°-180°	8221.0	100.0

**Coefficient of Utilization**

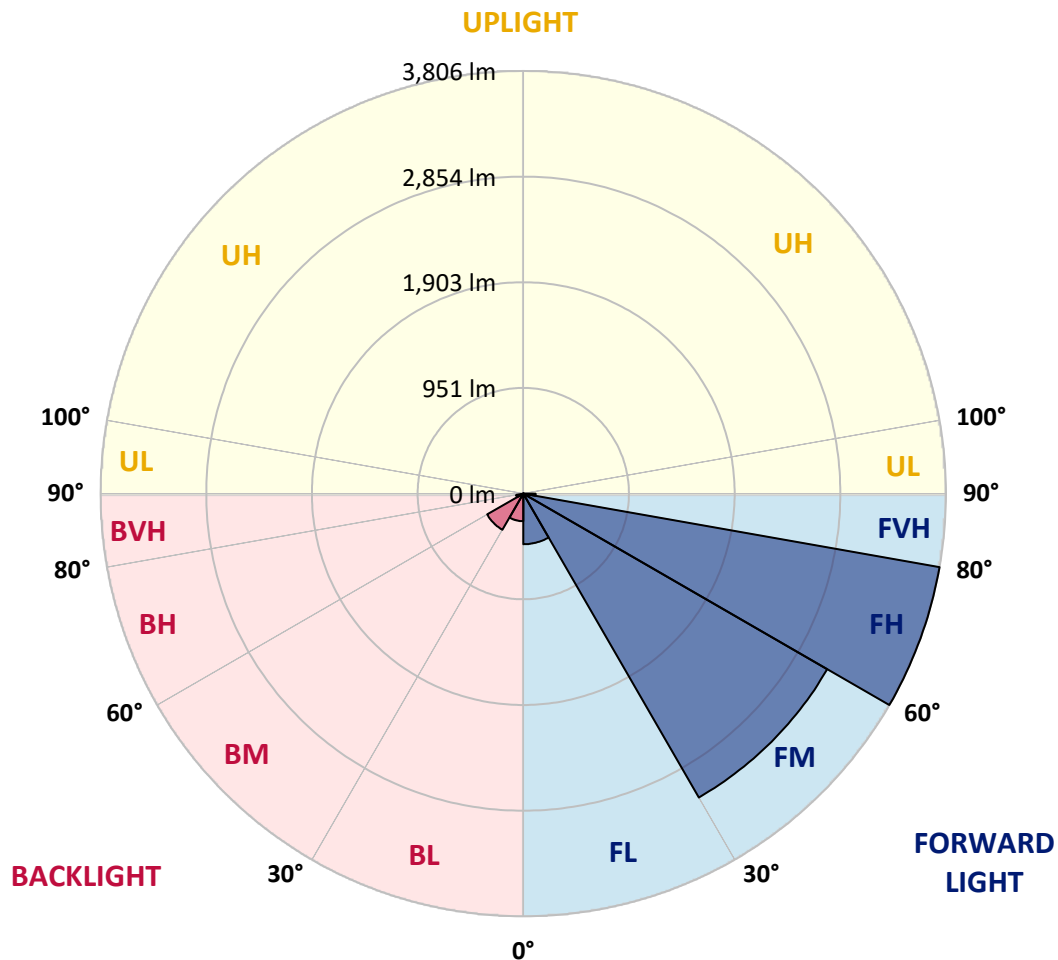


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	455.7	5.5			
FM	(30°-60°)	3159.8	38.4			
FH	(60°-80°)	3805.9	46.3			G2/5000
FVH	(80°-90°)	111.0	1.3			G2/225
BL	(0°-30°)	248.1	3.0	B1/500		
BM	(30°-60°)	375.6	4.6	B1/1000		
BH	(60°-80°)	64.4	0.8	B0/110		G0/110
BVH	(80°-90°)	0.4	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°	1322.1	1322.1	1322.1	1322.1	1322.1	1322.1	1322.1	1322.1	1322.1	1322.1	1322.1
2.5°	1226.1	1238.8	1236.9	1241.3	1252.0	1256.4	1268.4	1281.7	1300.0	1312.6	1320.8
5°	1098.0	1107.5	1108.8	1130.9	1141.6	1153.6	1188.9	1227.4	1270.3	1304.4	1327.1
7.5°	961.1	966.1	976.2	1005.3	1032.4	1044.4	1098.0	1164.9	1232.5	1296.2	1337.2
10°	848.1	853.8	872.1	903.0	928.3	944.1	1018.5	1102.5	1197.1	1291.8	1351.7
12.5°	783.8	786.9	793.9	821.6	853.8	870.9	951.0	1046.9	1168.7	1293.7	1376.3
15°	779.4	778.1	769.9	781.2	810.3	827.9	906.2	1009.1	1143.5	1300.0	1405.4
17.5°	802.7	799.5	780.0	780.0	804.0	818.5	887.3	988.9	1130.9	1314.5	1446.4
20°	838.7	833.6	801.4	798.9	822.3	837.4	898.6	990.1	1133.4	1341.6	1501.3
22.5°	884.1	878.4	829.8	831.1	856.3	871.5	931.4	1012.8	1149.2	1375.1	1560.0
25°	943.4	937.1	879.7	877.2	903.7	916.9	980.0	1053.2	1171.2	1416.7	1637.0
27.5°	1022.3	1009.1	940.3	936.5	964.9	981.9	1038.7	1107.5	1210.4	1474.2	1740.5
30°	1087.3	1072.8	1007.2	997.1	1027.4	1040.6	1099.3	1180.7	1287.4	1574.5	1883.7
32.5°	1172.5	1151.0	1074.1	1047.6	1079.7	1096.8	1187.0	1317.0	1401.6	1680.5	2054.1
35°	1364.3	1351.1	1257.1	1164.3	1162.4	1183.9	1316.4	1454.6	1519.0	1845.8	2286.3
37.5°	1638.9	1629.4	1529.7	1405.4	1369.4	1359.3	1473.5	1606.0	1706.4	2073.0	2556.4
40°	1957.5	1935.5	1843.9	1738.6	1691.9	1662.2	1659.0	1831.3	1951.2	2381.6	2837.9
42.5°	2186.0	2145.6	2034.5	2027.0	2016.9	1985.9	1896.3	2160.7	2267.4	2713.5	3138.9
45°	2425.8	2364.6	2199.2	2170.8	2167.1	2165.2	2254.8	2550.7	2611.9	3073.2	3448.1
47.5°	2611.9	2563.4	2427.7	2415.1	2430.8	2473.7	2728.7	2964.7	2952.1	3393.8	3707.5
50°	2860.0	2823.4	2672.5	2696.5	2777.9	2848.0	3263.2	3415.9	3231.6	3646.2	3896.1
52.5°	3152.8	3085.2	2945.1	3010.1	3135.1	3251.8	3830.5	3811.0	3427.9	3836.2	4036.9
55°	3406.4	3358.5	3310.5	3378.1	3564.8	3710.6	4342.9	4106.9	3570.5	3988.9	4098.7
57.5°	3835.6	3824.2	3775.0	3843.8	4070.3	4221.8	4801.7	4336.6	3662.0	4068.4	4026.1
60°	4470.4	4452.1	4360.6	4448.3	4743.7	4981.6	5224.5	4543.0	3682.9	4037.5	3817.3
62.5°	5234.0	5171.5	5093.3	5222.6	5627.8	5732.5	5622.7	4665.4	3605.2	3791.4	3313.7
65°	5947.1	5882.7	5884.6	6157.2	6598.3	6669.6	6087.2	4647.1	3378.1	3174.8	2444.1
67.5°	6492.9	6482.2	6559.2	7091.2	7668.0	7618.8	6502.4	4373.2	2704.7	2057.9	1298.7
70°	6520.7	6541.5	6762.4	7660.4	8246.0	8167.8	6467.1	3554.7	1686.2	946.6	511.8
71°	6185.0	6325.1	6630.5	7642.7	8280.1	8178.5	6169.2	2977.3	1236.9	660.1	369.2
72.5°	5270.6	5344.4	6004.5	7192.8	8010.6	7793.6	5413.8	2086.9	792.0	403.9	212.0
75°	2902.9	3084.6	4021.1	5642.9	6407.1	6216.5	3528.2	991.4	395.0	220.9	87.7
77.5°	1382.0	1346.7	1962.0	3356.0	4344.2	4334.1	1777.7	440.5	230.3	149.6	44.2
80°	395.0	444.3	751.0	1595.3	2411.9	2438.4	682.8	212.7	159.7	116.7	22.7
82.5°	119.3	121.8	275.8	705.5	1199.6	1130.9	256.2	108.5	114.9	92.8	13.3
85°	20.8	25.9	81.4	248.6	457.5	347.1	64.4	51.7	75.7	61.2	7.6
87.5°	1.3	1.9	27.1	28.4	40.4	23.3	11.4	7.6	16.4	16.4	4.4
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1322.1	1322.1	1322.1	1322.1	1322.1	1322.1	1322.1	1322.1	1322.1	1322.1	1322.1
2.5°	1326.5	1330.3	1327.7	1322.1	1312.6	1301.2	1286.1	1273.5	1262.7	1257.1	1264.0
5°	1334.7	1339.7	1327.1	1298.7	1255.8	1209.1	1156.1	1115.1	1082.9	1072.8	1069.0
7.5°	1347.3	1350.5	1316.4	1253.3	1162.4	1052.0	955.4	874.0	810.9	792.0	764.2
10°	1363.7	1361.8	1297.5	1180.1	1020.4	854.5	704.9	593.8	509.9	479.6	477.1
12.5°	1389.0	1378.9	1273.5	1080.4	851.3	634.2	449.3	351.5	298.5	280.8	277.0
15°	1420.5	1396.5	1235.6	963.6	651.9	409.6	277.0	247.4	240.4	239.2	237.9
17.5°	1457.7	1419.9	1185.8	820.4	458.1	265.7	231.6	231.0	231.6	230.3	229.7
20°	1508.2	1444.5	1126.4	650.6	302.9	224.0	220.9	220.9	221.5	220.9	220.9
22.5°	1561.9	1473.5	1053.2	496.6	228.4	212.7	212.0	213.3	214.6	213.9	213.9
25°	1628.1	1511.4	956.7	340.1	204.5	203.2	203.8	206.4	208.9	209.5	208.9
27.5°	1724.0	1558.1	853.2	234.1	187.4	188.7	195.0	201.3	205.1	205.7	205.7
30°	1832.0	1609.8	718.1	189.9	173.5	173.5	181.1	193.1	201.3	202.6	203.2
32.5°	1970.8	1669.8	568.6	171.0	160.3	159.0	166.0	180.5	195.6	200.0	200.0
35°	2142.4	1740.5	422.8	159.0	150.8	147.7	151.5	163.4	183.0	195.6	196.9
37.5°	2343.7	1807.3	309.2	148.3	142.0	137.6	140.1	149.6	165.3	184.3	189.3
40°	2529.9	1866.7	231.0	139.5	133.2	130.0	131.9	136.3	149.6	167.2	170.4
42.5°	2733.1	1912.7	183.6	130.0	124.3	123.1	123.1	124.9	133.8	143.9	144.5
45°	2935.7	1929.1	154.0	118.6	114.9	116.1	115.5	114.2	118.0	116.7	116.7
47.5°	3080.2	1909.6	127.5	107.9	107.9	109.8	106.6	102.2	100.3	92.8	93.4
50°	3179.3	1838.3	104.8	95.3	100.3	102.9	96.6	89.6	82.7	74.5	72.6
52.5°	3220.3	1711.4	85.8	78.9	89.0	92.1	84.6	76.4	65.6	58.7	56.8
55°	3193.8	1554.9	71.3	64.4	75.1	78.9	71.3	61.8	49.9	42.3	41.0
57.5°	3077.0	1368.1	60.6	51.1	60.0	62.5	57.4	47.3	35.3	27.8	27.8
60°	2875.1	1175.0	49.2	40.4	44.8	48.6	43.5	34.1	24.0	17.0	15.8
62.5°	2465.5	954.2	39.8	31.6	31.6	34.7	30.3	24.6	15.1	8.8	8.2
65°	1780.2	654.4	31.6	23.3	22.7	22.7	18.9	16.4	8.8	3.8	2.5
67.5°	967.4	369.2	25.2	17.7	15.8	15.1	12.0	9.5	3.8	0.6	0.0
70°	380.5	142.0	19.6	12.0	10.1	9.5	6.3	4.4	2.5	0.0	0.0
71°	258.1	97.8	17.0	10.1	8.2	6.9	5.0	3.8	1.9	0.0	0.0
72.5°	147.7	60.6	13.3	7.6	6.3	5.0	3.8	2.5	1.9	0.0	0.0
75°	64.4	30.9	8.2	5.7	4.4	3.2	2.5	1.9	0.6	0.0	0.0
77.5°	32.8	17.0	5.7	4.4	2.5	1.9	1.3	0.6	0.0	0.0	0.0
80°	18.3	8.8	3.8	2.5	1.9	1.3	0.6	0.6	0.0	0.0	0.0
82.5°	10.1	5.0	1.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.3	3.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	1.3	0.0	0.0	0.0	0.0	0.6	0.6	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)