

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: P451375

Luminaire Tested: **GALN-SA2B-727-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451375
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-SA2B-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA 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: 6891 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

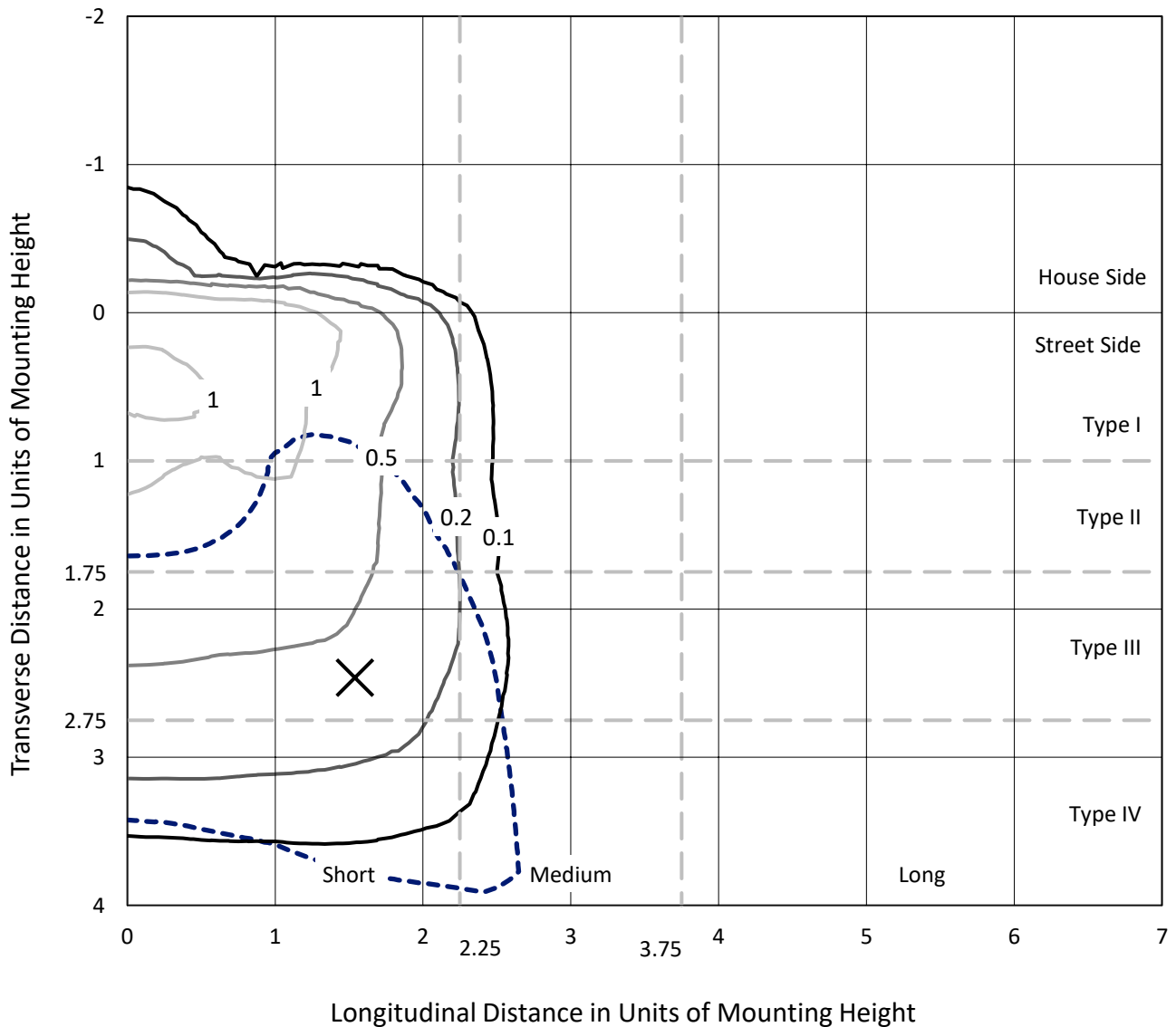
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451375
 CATALOG NUMBER: GALN-SA2B-727-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

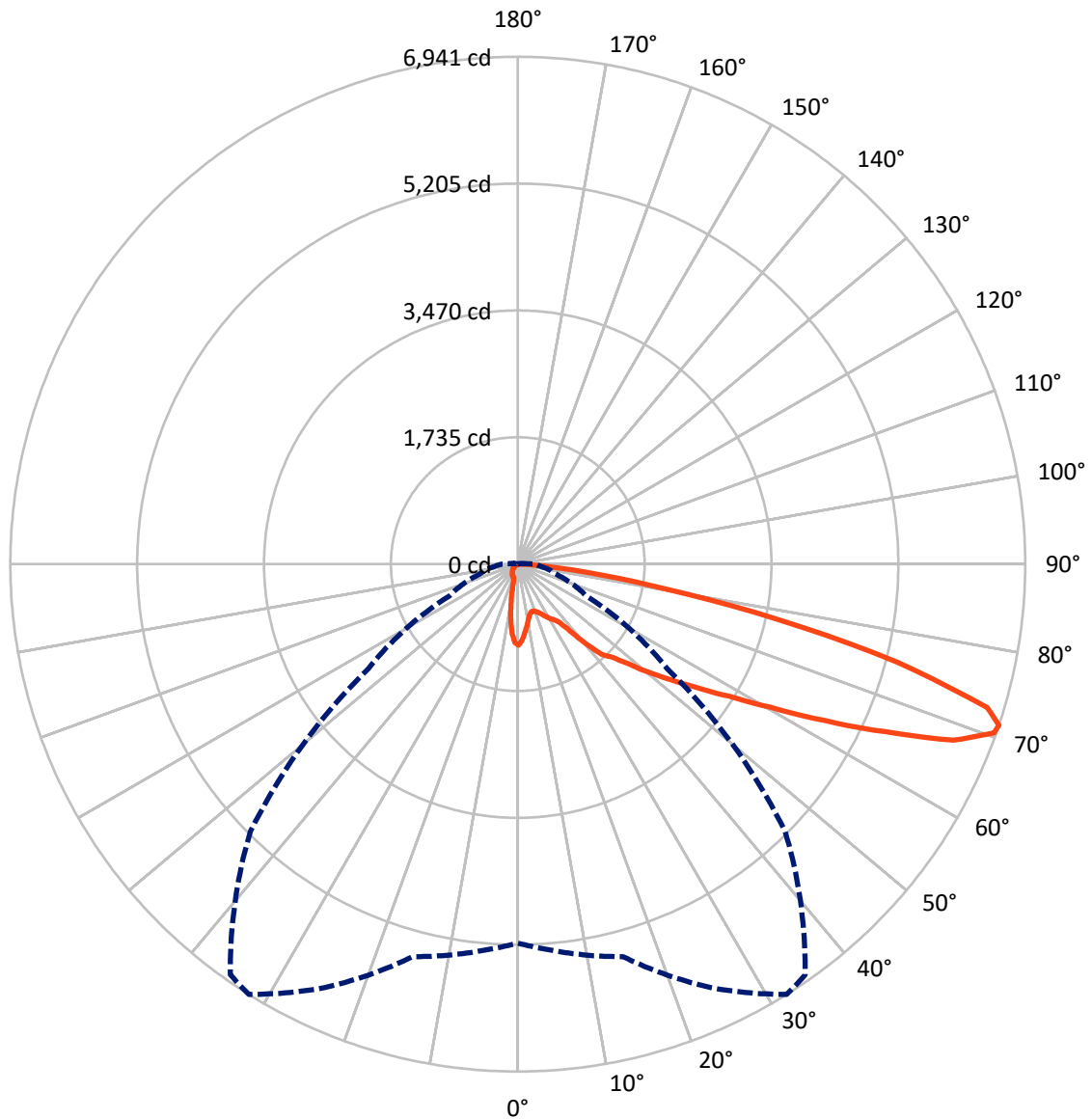
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P451375
CATALOG NUMBER: GALN-SA2B-727-U-T4FT-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P451375
 CATALOG NUMBER: GALN-SA2B-727-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	577.2	0.0	577.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	6313.8	0.0	6313.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	6891.0	0.0	6891.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	1.3
10°-20°	195.6	2.8
20°-30°	304.2	4.4
30°-40°	506.9	7.4
40°-50°	942.9	13.7
50°-60°	1513.8	22.0
60°-70°	2036.1	29.5
70°-80°	1208.1	17.5
80°-90°	93.4	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°	6891.0	100.0
0°-180°	6891.0	100.0

Coefficient of Utilization

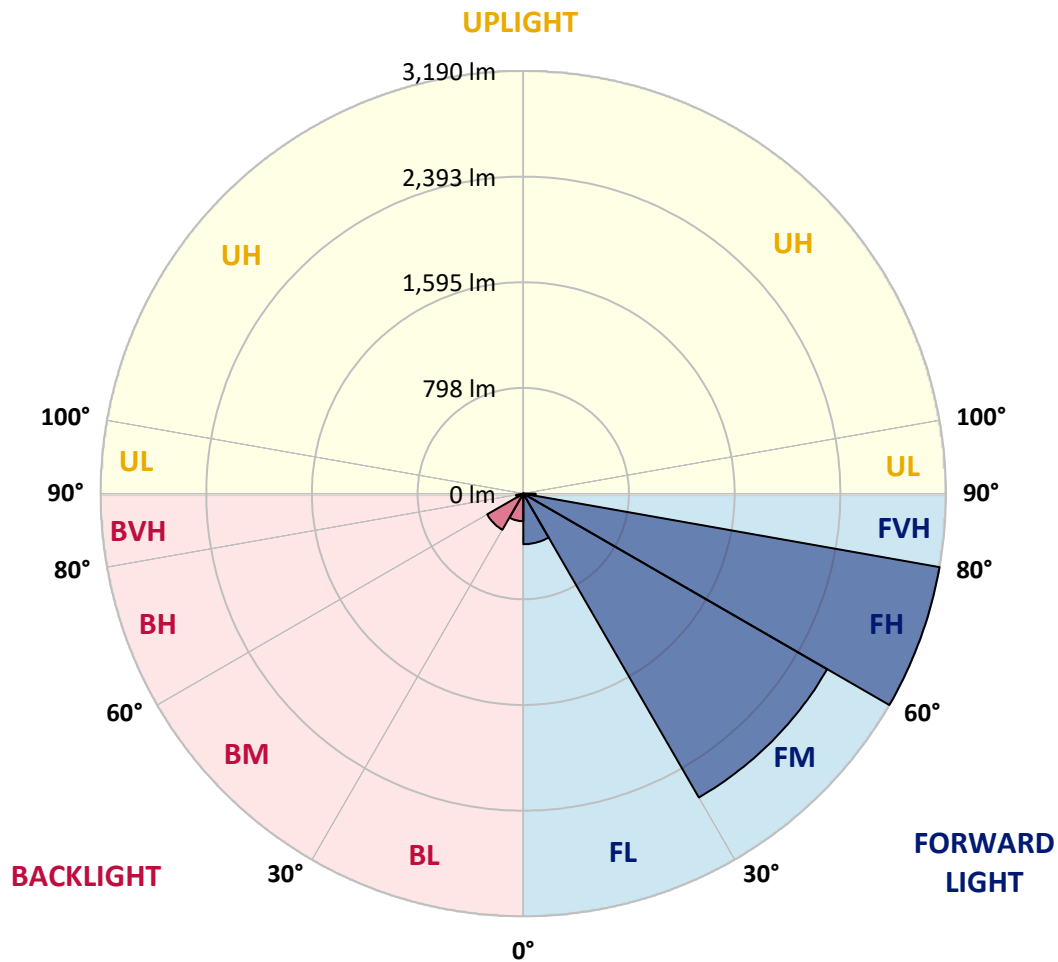


REPORT NUMBER: P451375
 CATALOG NUMBER: GALN-SA2B-727-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	381.9	5.5			
FM (30°-60°)	2648.6	38.4			
FH (60°-80°)	3190.2	46.3			G2/5000
FVH (80°-90°)	93.0	1.3			G1/100
BL (0°-30°)	208.0	3.0	B1/500		
BM (30°-60°)	314.9	4.6	B1/1000		
BH (60°-80°)	54.0	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





REPORT NUMBER: P451375

CATALOG NUMBER: GALN-SA2B-727-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1108.2	1108.2	1108.2	1108.2	1108.2	1108.2	1108.2	1108.2	1108.2	1108.2	1108.2
2.5°	1027.8	1038.4	1036.8	1040.5	1049.5	1053.2	1063.2	1074.3	1089.7	1100.2	1107.1
5°	920.4	928.3	929.4	947.9	956.9	966.9	996.6	1028.8	1064.8	1093.4	1112.4
7.5°	805.6	809.8	818.3	842.6	865.4	875.4	920.4	976.5	1033.1	1086.5	1120.9
10°	710.9	715.7	731.0	756.9	778.1	791.3	853.7	924.1	1003.4	1082.8	1133.0
12.5°	657.0	659.6	665.4	688.7	715.7	730.0	797.1	877.6	979.6	1084.4	1153.7
15°	653.3	652.2	645.3	654.9	679.2	694.0	759.6	845.8	958.5	1089.7	1178.0
17.5°	672.8	670.2	653.8	653.8	673.9	686.1	743.7	828.9	947.9	1101.8	1212.4
20°	703.0	698.8	671.8	669.7	689.2	701.9	753.2	829.9	950.0	1124.6	1258.4
22.5°	741.1	736.3	695.6	696.6	717.8	730.5	780.8	849.0	963.2	1152.6	1307.6
25°	790.8	785.5	737.4	735.3	757.5	768.6	821.5	882.8	981.8	1187.5	1372.1
27.5°	856.9	845.8	788.2	785.0	808.8	823.1	870.7	928.3	1014.6	1235.7	1458.9
30°	911.4	899.2	844.2	835.8	861.2	872.3	921.5	989.7	1079.1	1319.8	1579.0
32.5°	982.8	964.8	900.3	878.1	905.1	919.3	995.0	1103.9	1174.8	1408.6	1721.8
35°	1143.6	1132.5	1053.7	975.9	974.4	992.3	1103.4	1219.3	1273.2	1547.2	1916.4
37.5°	1373.7	1365.8	1282.2	1178.0	1147.9	1139.4	1235.1	1346.2	1430.3	1737.6	2142.8
40°	1640.8	1622.3	1545.6	1457.3	1418.2	1393.3	1390.6	1535.1	1635.6	1996.3	2378.8
42.5°	1832.3	1798.5	1705.4	1699.0	1690.6	1664.7	1589.5	1811.2	1900.6	2274.5	2631.1
45°	2033.3	1982.0	1843.4	1819.6	1816.5	1814.9	1890.0	2138.1	2189.4	2576.1	2890.3
47.5°	2189.4	2148.7	2034.9	2024.3	2037.6	2073.5	2287.2	2485.1	2474.5	2844.8	3107.7
50°	2397.3	2366.6	2240.2	2260.3	2328.5	2387.2	2735.3	2863.3	2708.8	3056.4	3265.8
52.5°	2642.7	2586.1	2468.7	2523.2	2627.9	2725.8	3210.8	3194.4	2873.3	3215.6	3383.8
55°	2855.3	2815.1	2774.9	2831.5	2988.1	3110.3	3640.3	3442.5	2992.9	3343.6	3435.6
57.5°	3215.0	3205.5	3164.3	3221.9	3411.8	3538.8	4024.9	3635.0	3069.6	3410.2	3374.8
60°	3747.2	3731.8	3655.1	3728.7	3976.2	4175.6	4379.3	3808.0	3087.0	3384.3	3199.7
62.5°	4387.2	4334.9	4269.3	4377.7	4717.3	4805.1	4713.1	3910.6	3022.0	3178.0	2777.6
65°	4985.0	4931.0	4932.6	5161.1	5530.9	5590.6	5102.4	3895.3	2831.5	2661.2	2048.7
67.5°	5442.5	5433.5	5498.1	5944.0	6427.4	6386.2	5450.4	3665.7	2267.1	1725.0	1088.6
70°	5465.8	5483.2	5668.4	6421.1	6912.0	6846.4	5420.8	2979.7	1413.4	793.4	429.0
71°	5184.4	5301.8	5557.8	6406.3	6940.5	6855.4	5171.2	2495.7	1036.8	553.3	309.4
72.5°	4417.9	4479.8	5033.1	6029.1	6714.7	6532.7	4538.0	1749.3	663.9	338.5	177.7
75°	2433.2	2585.6	3370.6	4730.0	5370.6	5210.8	2957.4	831.0	331.1	185.1	73.5
77.5°	1158.4	1128.8	1644.6	2813.0	3641.4	3632.9	1490.1	369.2	193.1	125.4	37.0
80°	331.1	372.4	629.5	1337.2	2021.7	2043.9	572.3	178.3	133.8	97.9	19.0
82.5°	100.0	102.1	231.2	591.4	1005.6	947.9	214.8	91.0	96.3	77.8	11.1
85°	17.5	21.7	68.2	208.4	383.5	290.9	54.0	43.4	63.5	51.3	6.3
87.5°	1.1	1.6	22.7	23.8	33.9	19.6	9.5	6.3	13.8	13.8	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P451375
 CATALOG NUMBER: GALN-SA2B-727-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1108.2	1108.2	1108.2	1108.2	1108.2	1108.2	1108.2	1108.2	1108.2	1108.2	1108.2
2.5°	1111.9	1115.1	1112.9	1108.2	1100.2	1090.7	1078.0	1067.5	1058.5	1053.7	1059.5
5°	1118.8	1123.0	1112.4	1088.6	1052.6	1013.5	969.1	934.7	907.7	899.2	896.1
7.5°	1129.3	1132.0	1103.4	1050.5	974.4	881.8	800.9	732.6	679.7	663.9	640.6
10°	1143.1	1141.5	1087.6	989.2	855.3	716.2	590.9	497.8	427.4	402.0	399.9
12.5°	1164.3	1155.8	1067.5	905.6	713.6	531.6	376.6	294.6	250.2	235.4	232.2
15°	1190.7	1170.6	1035.7	807.7	546.4	343.3	232.2	207.4	201.5	200.5	199.4
17.5°	1221.9	1190.2	993.9	687.7	384.0	222.7	194.1	193.6	194.1	193.1	192.5
20°	1264.2	1210.8	944.2	545.4	253.9	187.8	185.1	185.1	185.7	185.1	185.1
22.5°	1309.2	1235.1	882.8	416.3	191.5	178.3	177.7	178.8	179.8	179.3	179.3
25°	1364.7	1266.9	801.9	285.1	171.4	170.3	170.9	173.0	175.1	175.6	175.1
27.5°	1445.1	1306.0	715.2	196.2	157.1	158.2	163.5	168.7	171.9	172.4	172.4
30°	1535.6	1349.4	602.0	159.2	145.5	145.5	151.8	161.9	168.7	169.8	170.3
32.5°	1652.0	1399.6	476.6	143.3	134.4	133.3	139.1	151.3	164.0	167.7	167.7
35°	1795.8	1458.9	354.4	133.3	126.4	123.8	127.0	137.0	153.4	164.0	165.0
37.5°	1964.6	1515.0	259.2	124.3	119.0	115.3	117.4	125.4	138.6	154.5	158.7
40°	2120.6	1564.7	193.6	116.9	111.6	109.0	110.6	114.3	125.4	140.2	142.8
42.5°	2290.9	1603.3	153.9	109.0	104.2	103.1	103.1	104.7	112.1	120.6	121.1
45°	2460.7	1617.0	129.1	99.4	96.3	97.3	96.8	95.7	98.9	97.9	97.9
47.5°	2581.9	1600.6	106.9	90.5	90.5	92.0	89.4	85.7	84.1	77.8	78.3
50°	2664.9	1540.9	87.8	79.9	84.1	86.2	80.9	75.1	69.3	62.4	60.8
52.5°	2699.3	1434.6	71.9	66.1	74.6	77.2	70.9	64.0	55.0	49.2	47.6
55°	2677.1	1303.4	59.8	54.0	62.9	66.1	59.8	51.8	41.8	35.4	34.4
57.5°	2579.2	1146.8	50.8	42.8	50.3	52.4	48.1	39.7	29.6	23.3	23.3
60°	2410.0	984.9	41.3	33.9	37.6	40.7	36.5	28.6	20.1	14.3	13.2
62.5°	2066.7	799.8	33.3	26.4	26.4	29.1	25.4	20.6	12.7	7.4	6.9
65°	1492.2	548.5	26.4	19.6	19.0	19.0	15.9	13.8	7.4	3.2	2.1
67.5°	810.9	309.4	21.2	14.8	13.2	12.7	10.1	7.9	3.2	0.5	0.0
70°	319.0	119.0	16.4	10.1	8.5	7.9	5.3	3.7	2.1	0.0	0.0
71°	216.3	82.0	14.3	8.5	6.9	5.8	4.2	3.2	1.6	0.0	0.0
72.5°	123.8	50.8	11.1	6.3	5.3	4.2	3.2	2.1	1.6	0.0	0.0
75°	54.0	25.9	6.9	4.8	3.7	2.6	2.1	1.6	0.5	0.0	0.0
77.5°	27.5	14.3	4.8	3.7	2.1	1.6	1.1	0.5	0.0	0.0	0.0
80°	15.3	7.4	3.2	2.1	1.6	1.1	0.5	0.5	0.0	0.0	0.0
82.5°	8.5	4.2	1.6	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.3	2.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	1.1	0.0	0.0	0.0	0.0	0.5	0.5	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)