

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: P453140

Luminaire Tested: **GALN-SA4A-827-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453140
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-SA4A-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA 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: 9764 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

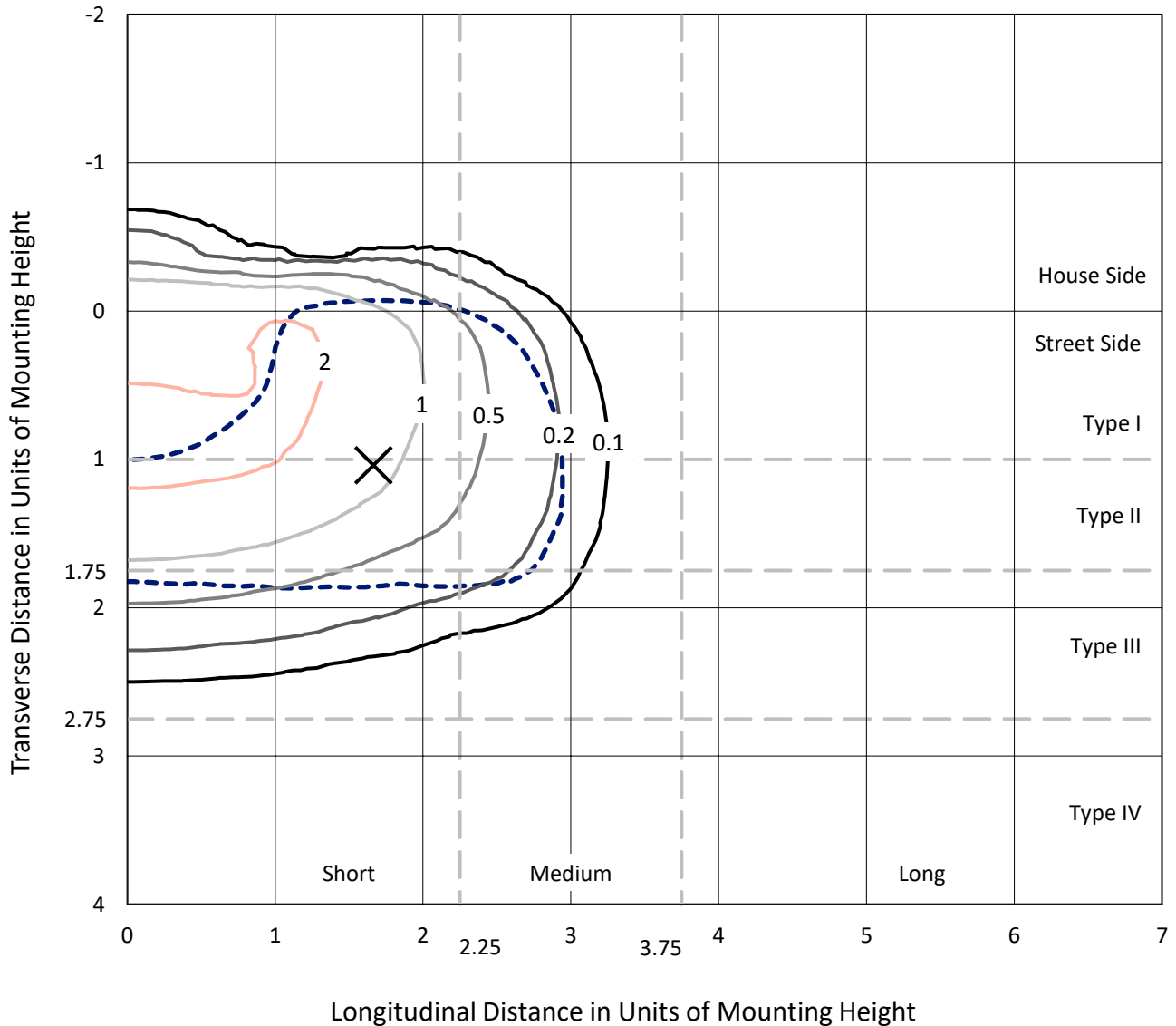
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453140
 CATALOG NUMBER: GALN-SA4A-827-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

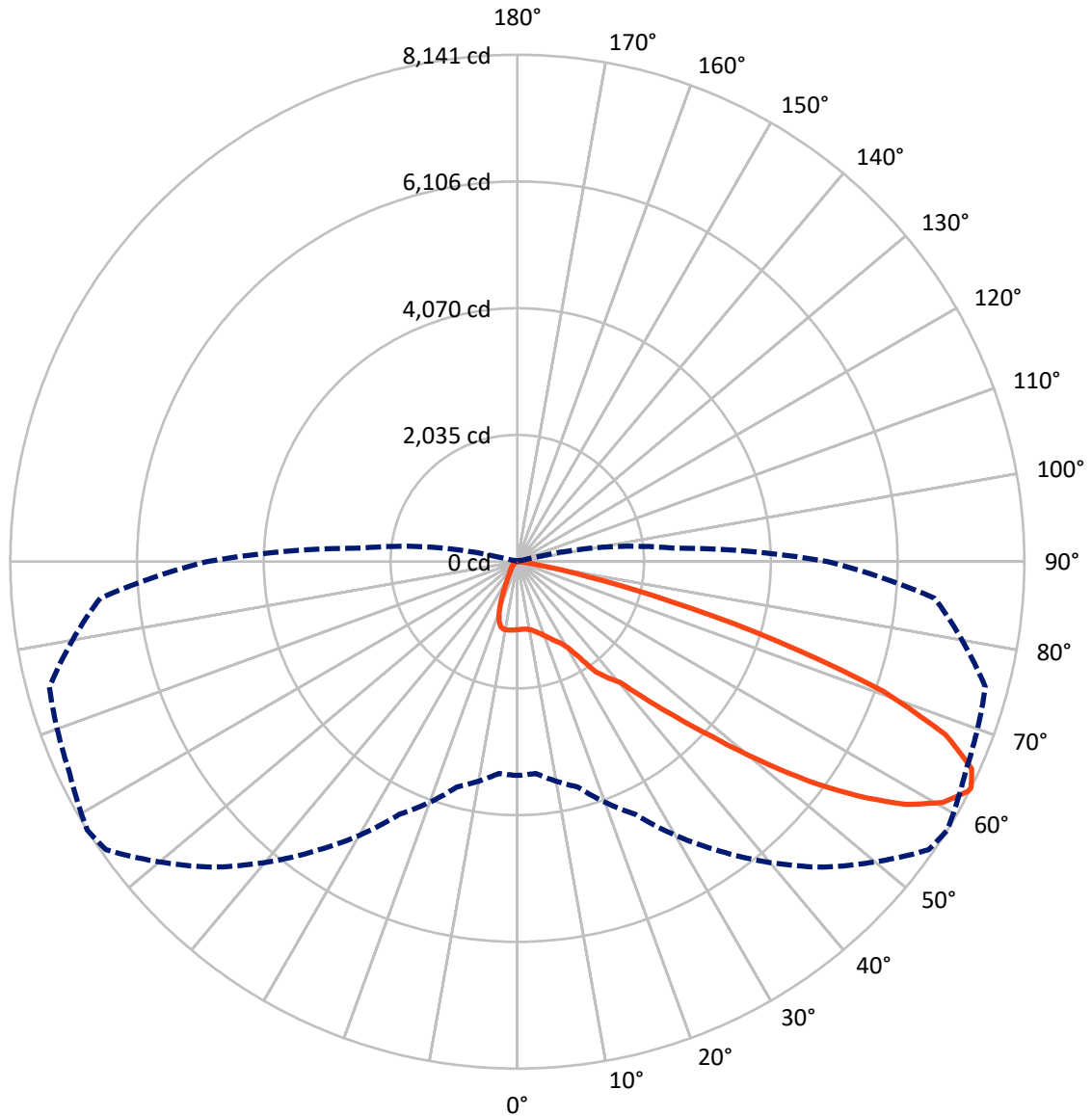
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Short - N/A

REPORT NUMBER: P453140
CATALOG NUMBER: GALN-SA4A-827-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P453140

CATALOG NUMBER: GALN-SA4A-827-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1011.0	0.0	1011.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	8753.0	0.0	8753.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	9764.0	0.0	9764.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.3	1.0
10°-20°	278.7	2.9
20°-30°	483.7	5.0
30°-40°	888.9	9.1
40°-50°	1673.3	17.1
50°-60°	2862.1	29.3
60°-70°	2740.4	28.1
70°-80°	698.8	7.2
80°-90°	35.7	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°	9764.0	100.0
0°-180°	9764.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453140

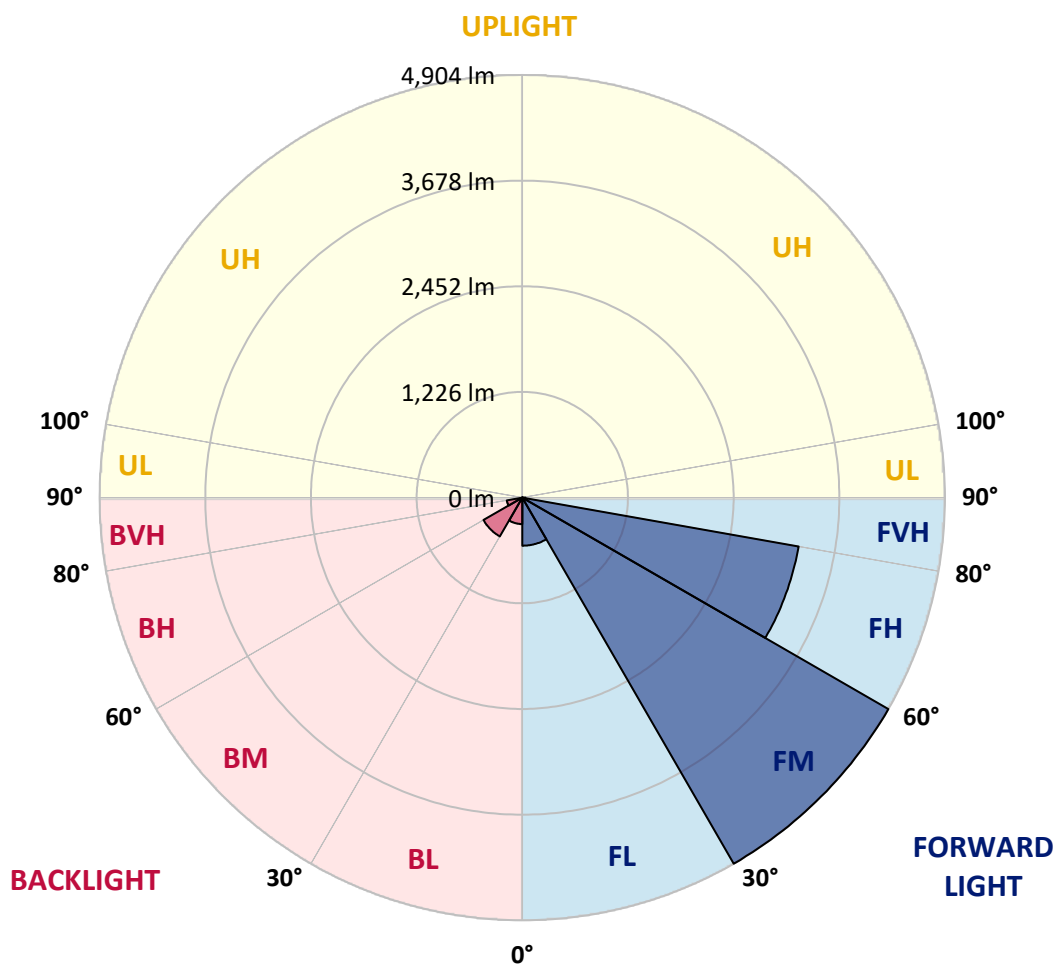
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	558.2	5.7			
FM	(30°-60°)	4904.3	50.2			
FH	(60°-80°)	3256.2	33.3			G2/5000
FVH	(80°-90°)	34.3	0.4			G1/100
BL	(0°-30°)	306.6	3.1	B1/500		
BM	(30°-60°)	520.0	5.3	B1/1000		
BH	(60°-80°)	183.0	1.9	B1/500		G1/500
BVH	(80°-90°)	1.4	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 III Short





REPORT NUMBER: P453140

CATALOG NUMBER: GALN-SA4A-827-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1093.1	1093.1	1093.1	1093.1	1093.1	1093.1	1093.1	1093.1	1093.1	1093.1	1093.1
2.5°	1065.9	1069.6	1073.3	1074.7	1079.9	1085.0	1088.7	1088.0	1093.9	1096.8	1096.8
5°	1023.3	1023.3	1032.8	1041.7	1056.4	1071.1	1085.0	1088.0	1099.0	1109.3	1113.0
7.5°	987.3	989.5	996.8	1013.0	1032.8	1058.6	1086.5	1093.1	1112.2	1135.0	1144.6
10°	970.4	971.8	981.4	998.3	1023.3	1058.6	1097.5	1110.0	1139.4	1175.5	1188.7
12.5°	966.7	968.9	978.4	997.6	1026.2	1068.9	1121.8	1135.0	1177.7	1224.0	1243.8
15°	973.3	974.8	984.3	1004.9	1036.5	1087.2	1154.1	1172.5	1223.2	1276.9	1302.6
17.5°	996.8	995.3	1002.0	1018.9	1054.2	1110.0	1193.1	1215.1	1274.7	1348.2	1365.1
20°	1096.8	1087.2	1081.4	1066.7	1080.6	1142.4	1240.1	1272.5	1346.0	1421.0	1432.7
22.5°	1312.2	1290.9	1249.0	1191.6	1147.5	1186.5	1296.7	1334.2	1429.1	1502.6	1502.6
25°	1586.4	1559.2	1517.3	1392.3	1284.2	1259.3	1360.7	1407.7	1519.5	1593.7	1569.5
27.5°	1929.7	1908.4	1826.8	1681.2	1515.8	1386.4	1434.9	1478.3	1599.6	1689.3	1638.6
30°	2209.0	2198.7	2131.8	2001.7	1819.4	1630.5	1573.1	1601.8	1706.2	1809.9	1757.7
32.5°	2445.0	2445.0	2376.6	2255.3	2084.8	1917.2	1807.7	1828.2	1928.2	2048.0	1951.0
35°	2704.5	2695.7	2640.5	2525.1	2334.0	2186.2	2141.4	2169.3	2259.7	2348.7	2109.8
37.5°	2977.2	2974.3	2916.9	2805.2	2649.4	2463.4	2358.3	2365.6	2411.9	2466.3	2295.8
40°	3273.5	3277.9	3202.9	3133.8	2986.8	2796.4	2595.0	2548.6	2592.0	2745.7	2639.1
42.5°	3623.4	3613.1	3580.8	3486.7	3368.3	3254.4	3012.5	2995.6	3033.8	3198.5	3083.1
45°	4029.9	4044.6	3988.7	3936.5	3857.2	3762.3	3560.2	3530.8	3572.7	3828.5	3664.6
47.5°	4437.2	4423.2	4459.2	4449.7	4492.3	4421.7	4243.1	4182.8	4283.5	4526.1	4285.0
50°	4747.4	4762.8	4837.8	4947.3	5130.4	5170.1	4998.8	4978.2	5023.0	5178.9	4840.0
52.5°	4948.8	5000.3	5117.9	5399.4	5729.5	5986.0	5855.9	5844.9	5826.5	5868.4	5370.8
55°	5080.4	5132.6	5286.2	5700.8	6269.1	6685.9	6692.5	6645.4	6524.2	6494.0	5867.0
57.5°	4999.5	5009.8	5228.9	5783.2	6568.3	7185.0	7401.1	7354.1	7129.9	7015.9	6305.1
60°	4493.8	4515.1	4820.2	5471.5	6438.1	7348.2	7870.9	7849.6	7604.0	7475.4	6646.2
62.5°	3597.7	3659.4	3973.3	4699.6	5833.1	7073.3	8061.3	8121.6	7930.4	7753.3	6753.5
63°	3433.0	3413.1	3744.7	4474.7	5672.9	6937.3	8064.2	8140.7	7945.1	7779.7	6724.1
65°	2541.3	2600.8	2816.2	3528.6	4720.9	6304.4	7882.6	8017.9	7890.7	7662.8	6398.5
67.5°	1426.9	1423.9	1662.1	2309.0	3304.3	4945.1	7127.7	7413.6	7387.2	6876.3	5303.9
70°	698.4	709.4	807.2	1196.8	1916.4	3411.7	5922.8	6231.6	6241.1	5400.9	3667.5
72.5°	316.1	321.2	391.1	582.9	985.1	1816.5	4081.4	4376.1	4321.7	3441.8	2025.2
75°	166.9	177.9	215.4	293.3	474.9	749.1	2220.1	2505.3	2391.3	1572.4	745.4
77.5°	123.5	127.2	146.3	186.7	254.4	291.8	957.9	1139.4	1067.4	569.0	247.0
80°	90.4	93.4	108.8	132.3	160.3	148.5	360.9	413.9	371.2	193.3	75.7
82.5°	55.1	55.9	79.4	98.5	100.7	83.1	119.1	127.9	133.8	108.8	41.2
85°	19.8	25.0	53.7	71.3	59.5	41.9	50.0	55.1	60.3	69.1	24.3
87.5°	2.2	2.9	25.7	34.6	16.9	15.4	18.4	20.6	22.1	25.7	11.8
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: P453140
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1093.1	1093.1	1093.1	1093.1	1093.1	1093.1	1093.1	1093.1	1093.1	1093.1	1093.1
2.5°	1099.7	1102.7	1100.5	1096.8	1096.1	1093.9	1089.4	1089.4	1089.4	1090.9	1089.4
5°	1115.9	1118.1	1113.0	1105.6	1097.5	1087.2	1076.2	1069.6	1068.9	1067.4	1063.7
7.5°	1146.8	1149.7	1138.0	1120.3	1098.3	1073.3	1049.7	1027.7	1017.4	1009.3	1009.3
10°	1191.6	1194.6	1171.0	1139.4	1095.3	1044.6	988.7	938.0	898.3	879.9	875.5
12.5°	1245.3	1246.8	1207.8	1152.7	1079.9	982.1	863.0	752.0	674.8	639.6	635.9
15°	1304.1	1293.8	1242.3	1157.8	1035.8	853.5	647.6	511.6	431.5	408.0	416.8
17.5°	1363.6	1344.5	1268.8	1149.7	936.5	647.6	435.2	349.2	324.2	317.6	317.6
20°	1419.5	1393.0	1287.9	1114.4	764.5	446.2	322.7	302.1	297.7	293.3	294.0
22.5°	1475.4	1434.9	1304.8	1035.8	569.7	319.0	288.9	282.3	276.4	270.5	269.8
25°	1529.8	1473.9	1311.4	890.2	388.1	274.2	263.9	255.1	243.3	236.7	235.2
27.5°	1586.4	1521.0	1307.0	706.4	283.0	245.5	235.2	222.7	208.8	197.0	197.0
30°	1695.2	1610.6	1291.6	508.0	238.2	216.1	202.9	183.0	167.6	155.8	155.1
32.5°	1843.7	1727.5	1238.7	357.3	211.7	190.4	170.5	148.5	132.3	123.5	123.5
35°	1976.0	1845.1	1139.4	263.2	190.4	165.4	141.1	119.8	107.3	101.4	99.2
37.5°	2177.4	2017.2	1002.7	213.9	169.8	143.3	118.4	98.5	88.2	83.8	83.8
40°	2479.5	2227.4	835.1	187.5	150.0	122.0	98.5	83.1	75.0	69.8	69.8
42.5°	2854.5	2484.7	665.3	168.3	131.6	105.1	82.3	70.6	63.2	59.5	58.8
45°	3326.4	2756.0	512.4	150.7	116.9	89.7	69.8	59.5	52.2	50.0	50.7
47.5°	3818.9	2994.9	397.0	135.3	101.4	75.7	59.5	51.5	46.3	43.4	43.4
50°	4239.4	3159.5	301.4	117.6	89.7	64.0	52.2	46.3	41.9	40.4	39.7
52.5°	4590.8	3207.3	230.8	102.2	78.7	55.1	46.3	41.9	38.2	36.0	36.0
55°	4890.0	3165.4	180.8	86.0	66.2	47.8	41.2	37.5	33.1	30.9	30.1
57.5°	5064.9	3030.9	138.2	71.3	53.7	39.7	36.0	31.6	26.5	22.8	22.8
60°	5153.2	2835.3	105.9	58.8	41.2	31.6	29.4	23.5	18.4	15.4	14.7
62.5°	5047.3	2575.8	80.1	46.3	30.9	23.5	19.8	16.9	11.8	8.8	8.8
63°	4981.9	2500.9	77.2	44.1	28.7	22.1	18.4	15.4	10.3	8.1	7.4
65°	4541.5	2173.7	63.2	35.3	22.8	15.4	12.5	11.0	7.4	3.7	2.9
67.5°	3606.5	1662.8	50.0	26.5	16.2	11.0	7.4	6.6	2.2	0.0	0.0
70°	2438.4	1074.0	39.0	19.1	11.0	6.6	3.7	2.9	0.7	0.0	0.0
72.5°	1271.8	550.6	30.1	14.0	6.6	4.4	2.2	0.7	0.0	0.0	0.0
75°	449.9	187.5	22.1	8.8	4.4	2.2	0.7	0.0	0.0	0.0	0.0
77.5°	136.0	69.8	14.0	6.6	2.9	1.5	0.0	0.0	0.0	0.0	0.0
80°	47.8	25.7	8.1	4.4	2.2	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	23.5	12.5	5.1	3.7	2.2	0.7	0.0	0.0	0.0	0.0	0.0
85°	13.2	8.1	4.4	3.7	2.2	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	9.6	5.9	4.4	3.7	2.9	1.5	0.7	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)