

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: P452444

Luminaire Tested: **GALN-SA3B-827-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452444
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-SA3B-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA 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: 9168 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

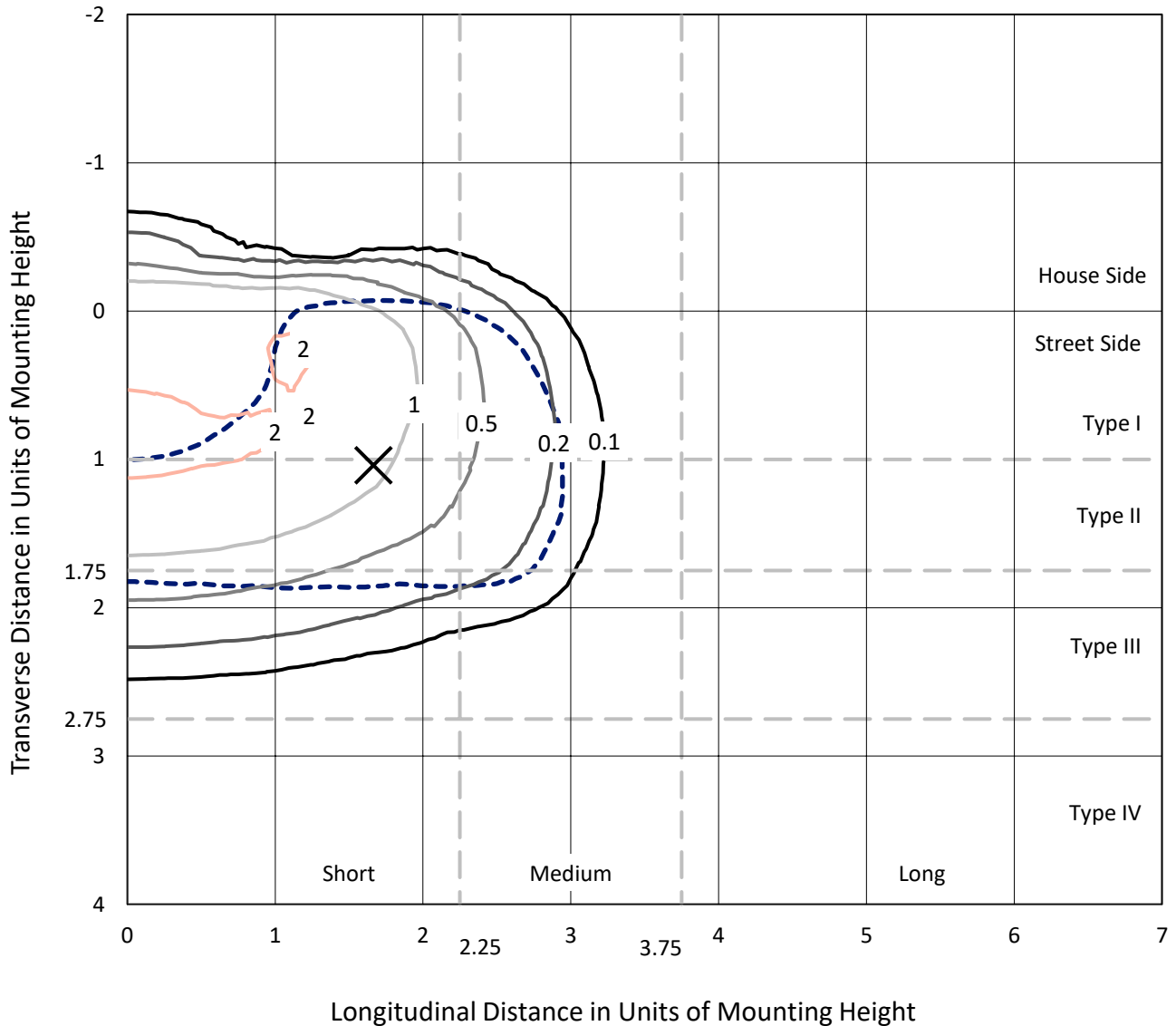
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452444
 CATALOG NUMBER: GALN-SA3B-827-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

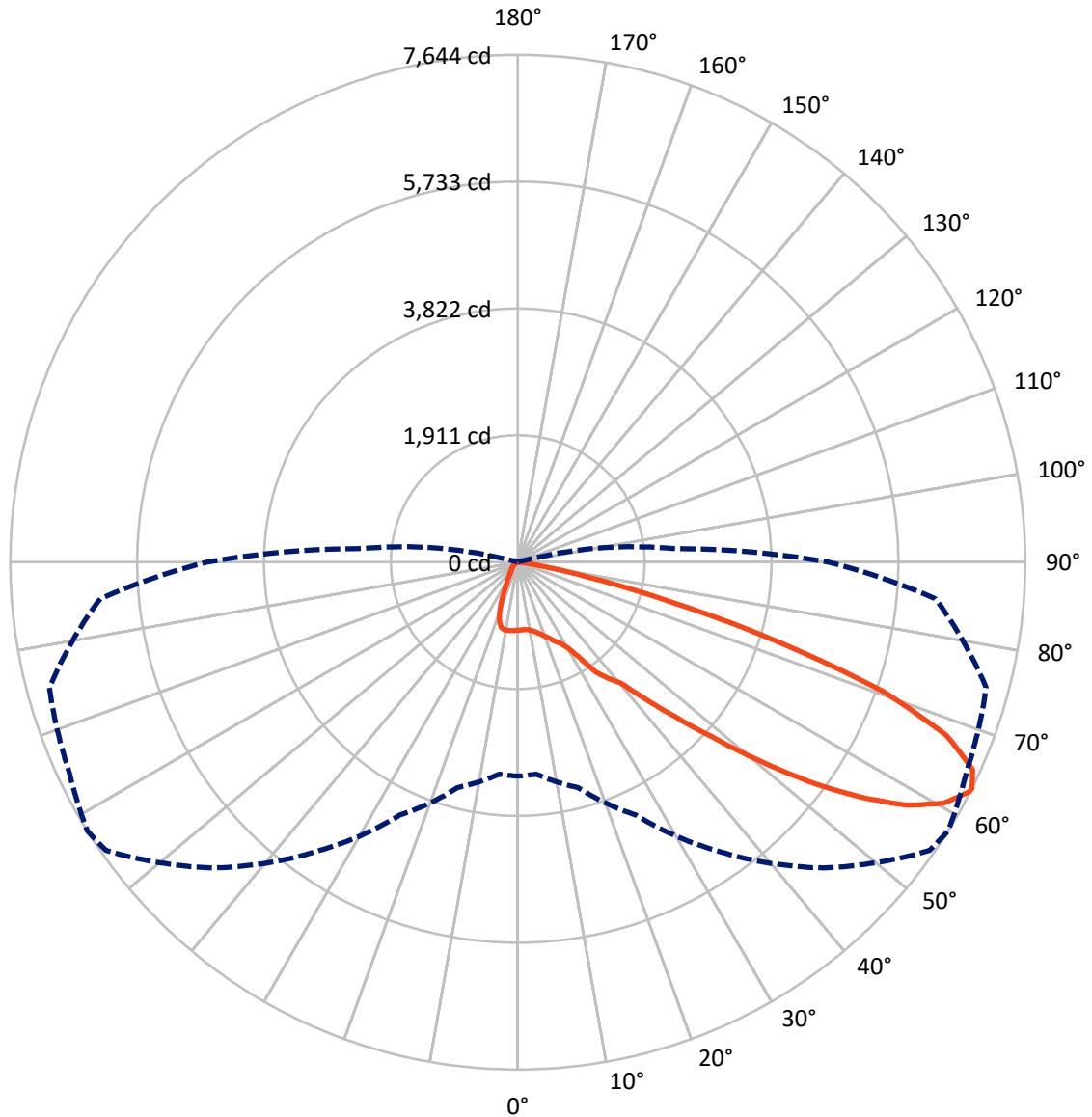
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P452444
CATALOG NUMBER: GALN-SA3B-827-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P452444

CATALOG NUMBER: GALN-SA3B-827-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	949.3	0.0	949.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	8218.7	0.0	8218.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	9168.0	0.0	9168.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.1	1.0
10°-20°	261.7	2.9
20°-30°	454.2	5.0
30°-40°	834.6	9.1
40°-50°	1571.2	17.1
50°-60°	2687.4	29.3
60°-70°	2573.2	28.1
70°-80°	656.2	7.2
80°-90°	33.6	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°	9168.0	100.0
0°-180°	9168.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452444

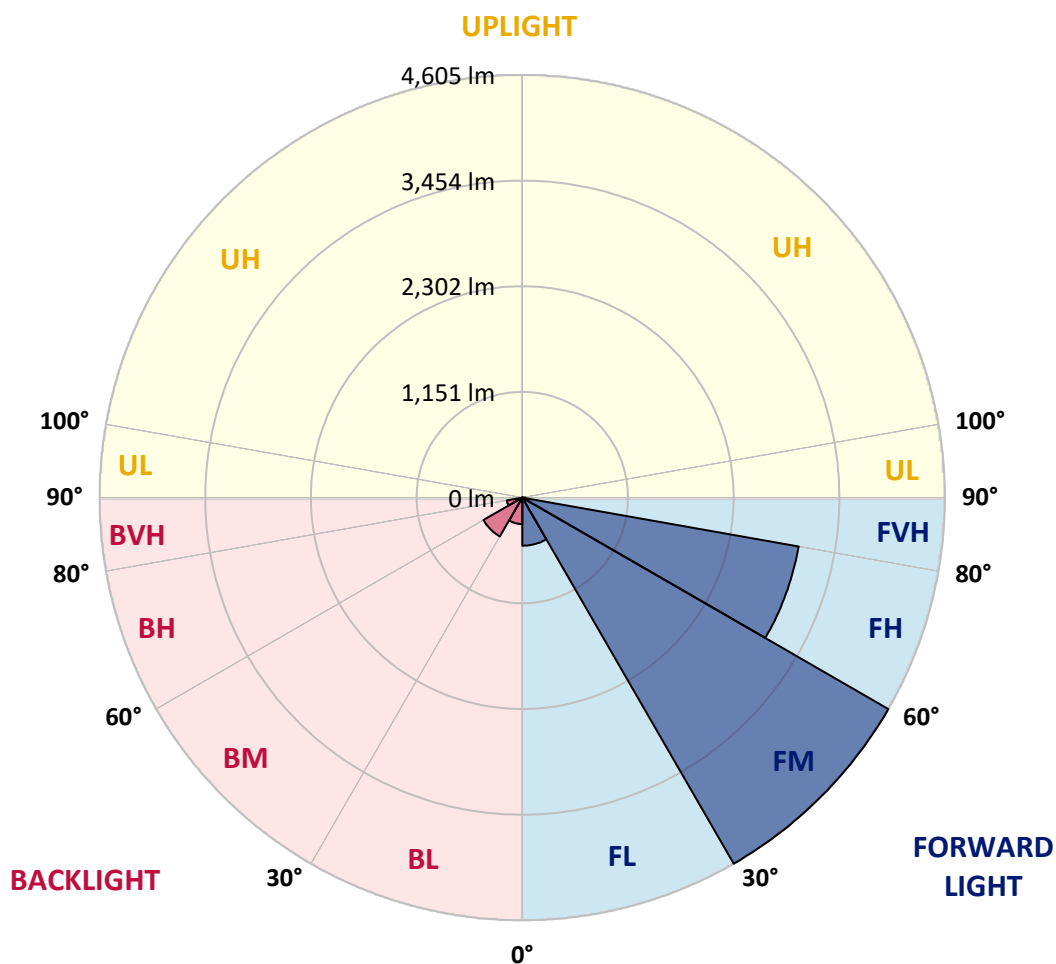
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	524.1	5.7			
FM (30°-60°)	4604.9	50.2			
FH (60°-80°)	3057.5	33.3			G2/5000
FVH (80°-90°)	32.3	0.4			G1/100
BL (0°-30°)	287.9	3.1	B1/500		
BM (30°-60°)	488.3	5.3	B1/1000		
BH (60°-80°)	171.8	1.9	B1/500		G1/500
BVH (80°-90°)	1.3	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: P452444

CATALOG NUMBER: GALN-SA3B-827-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1026.4	1026.4	1026.4	1026.4	1026.4	1026.4	1026.4	1026.4	1026.4	1026.4	1026.4
2.5°	1000.9	1004.3	1007.8	1009.1	1014.0	1018.8	1022.3	1021.6	1027.1	1029.8	1029.8
5°	960.8	960.8	969.8	978.1	991.9	1005.7	1018.8	1021.6	1031.9	1041.6	1045.0
7.5°	927.0	929.1	936.0	951.2	969.8	994.0	1020.2	1026.4	1044.3	1065.7	1074.7
10°	911.1	912.5	921.5	937.4	960.8	994.0	1030.5	1042.3	1069.9	1103.7	1116.1
12.5°	907.7	909.7	918.7	936.7	963.6	1003.6	1053.3	1065.7	1105.8	1149.3	1167.9
15°	913.9	915.3	924.2	943.6	973.2	1020.9	1083.7	1100.9	1148.6	1199.0	1223.1
17.5°	936.0	934.6	940.8	956.7	989.8	1042.3	1120.3	1141.0	1196.9	1265.9	1281.8
20°	1029.8	1020.9	1015.3	1001.5	1014.7	1072.6	1164.4	1194.8	1263.8	1334.2	1345.3
22.5°	1232.1	1212.1	1172.7	1118.9	1077.5	1114.1	1217.6	1252.8	1341.8	1410.9	1410.9
25°	1489.5	1464.0	1424.7	1307.3	1205.9	1182.4	1277.6	1321.8	1426.7	1496.4	1473.7
27.5°	1811.9	1791.9	1715.3	1578.6	1423.3	1301.8	1347.4	1388.1	1502.0	1586.2	1538.6
30°	2074.2	2064.5	2001.7	1879.5	1708.4	1531.0	1477.1	1504.0	1602.1	1699.4	1650.4
32.5°	2295.8	2295.8	2231.6	2117.7	1957.5	1800.2	1697.3	1716.6	1810.5	1923.0	1831.9
35°	2539.4	2531.1	2479.4	2371.0	2191.5	2052.8	2010.7	2036.9	2121.8	2205.3	1981.0
37.5°	2795.5	2792.7	2738.9	2634.0	2487.6	2313.0	2214.3	2221.2	2264.7	2315.8	2155.6
40°	3073.7	3077.8	3007.4	2942.5	2804.5	2625.7	2436.6	2393.1	2433.8	2578.1	2478.0
42.5°	3402.2	3392.6	3362.2	3273.8	3162.7	3055.7	2828.6	2812.7	2848.6	3003.3	2894.9
45°	3783.9	3797.7	3745.3	3696.3	3621.7	3532.7	3342.9	3315.2	3354.6	3594.8	3440.9
47.5°	4166.3	4153.2	4187.0	4178.0	4218.1	4151.8	3984.1	3927.5	4022.1	4249.8	4023.4
50°	4457.6	4472.1	4542.5	4645.3	4817.2	4854.5	4693.7	4674.3	4716.4	4862.8	4544.6
52.5°	4646.7	4695.0	4805.5	5069.8	5379.8	5620.7	5498.5	5488.1	5470.9	5510.2	5042.9
55°	4770.3	4819.3	4963.5	5352.8	5886.4	6277.8	6284.0	6239.8	6125.9	6097.6	5508.8
57.5°	4694.4	4704.0	4909.7	5430.2	6167.3	6746.4	6949.4	6905.2	6694.7	6587.7	5920.2
60°	4219.5	4239.5	4525.9	5137.5	6045.2	6899.7	7390.4	7370.4	7139.9	7019.1	6240.5
62.5°	3378.1	3436.0	3730.8	4412.7	5477.1	6641.5	7569.2	7625.8	7446.4	7280.0	6341.3
63°	3223.4	3204.8	3516.1	4201.5	5326.6	6513.8	7572.0	7643.8	7460.2	7304.9	6313.7
65°	2386.2	2442.1	2644.3	3313.2	4432.7	5919.5	7401.5	7528.5	7409.1	7195.1	6007.9
67.5°	1339.8	1337.0	1560.6	2168.1	3102.6	4643.3	6692.6	6961.1	6936.3	6456.5	4980.1
70°	655.7	666.1	757.9	1123.7	1799.5	3203.4	5561.3	5851.2	5860.2	5071.2	3443.6
72.5°	296.8	301.6	367.2	547.4	924.9	1705.6	3832.2	4109.0	4057.9	3231.7	1901.6
75°	156.7	167.0	202.2	275.4	445.9	703.4	2084.5	2352.4	2245.4	1476.4	699.9
77.5°	116.0	119.4	137.4	175.3	238.8	274.0	899.4	1069.9	1002.2	534.2	231.9
80°	84.9	87.7	102.2	124.2	150.5	139.4	338.9	388.6	348.6	181.5	71.1
82.5°	51.8	52.5	74.5	92.5	94.6	78.0	111.8	120.1	125.6	102.2	38.7
85°	18.6	23.5	50.4	67.0	55.9	39.3	46.9	51.8	56.6	64.9	22.8
87.5°	2.1	2.8	24.2	32.4	15.9	14.5	17.3	19.3	20.7	24.2	11.0
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: P452444
 CATALOG NUMBER: GALN-SA3B-827-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1026.4	1026.4	1026.4	1026.4	1026.4	1026.4	1026.4	1026.4	1026.4	1026.4	1026.4
2.5°	1032.6	1035.4	1033.3	1029.8	1029.2	1027.1	1022.9	1022.9	1022.9	1024.3	1022.9
5°	1047.8	1049.9	1045.0	1038.1	1030.5	1020.9	1010.5	1004.3	1003.6	1002.2	998.8
7.5°	1076.8	1079.5	1068.5	1051.9	1031.2	1007.8	985.7	965.0	955.3	947.7	947.7
10°	1118.9	1121.6	1099.6	1069.9	1028.5	980.8	928.4	880.8	843.5	826.2	822.1
12.5°	1169.3	1170.7	1134.1	1082.3	1014.0	922.2	810.3	706.1	633.6	600.5	597.1
15°	1224.5	1214.8	1166.5	1087.1	972.6	801.4	608.1	480.4	405.2	383.1	391.4
17.5°	1280.4	1262.5	1191.4	1079.5	879.4	608.1	408.6	327.9	304.4	298.2	298.2
20°	1332.9	1308.0	1209.3	1046.4	717.9	419.0	303.0	283.7	279.5	275.4	276.1
22.5°	1385.3	1347.4	1225.2	972.6	534.9	299.6	271.3	265.1	259.5	254.0	253.3
25°	1436.4	1383.9	1231.4	835.9	364.4	257.5	247.8	239.5	228.5	222.3	220.9
27.5°	1489.5	1428.1	1227.3	663.3	265.7	230.5	220.9	209.1	196.0	185.0	185.0
30°	1591.7	1512.3	1212.8	477.0	223.6	202.9	190.5	171.9	157.4	146.3	145.6
32.5°	1731.1	1622.1	1163.1	335.5	198.8	178.8	160.1	139.4	124.2	116.0	116.0
35°	1855.4	1732.5	1069.9	247.1	178.8	155.3	132.5	112.5	100.8	95.3	93.2
37.5°	2044.5	1894.0	941.5	200.9	159.4	134.6	111.1	92.5	82.8	78.7	78.7
40°	2328.2	2091.4	784.1	176.0	140.8	114.6	92.5	78.0	70.4	65.6	65.6
42.5°	2680.2	2333.0	624.7	158.1	123.6	98.7	77.3	66.3	59.4	55.9	55.2
45°	3123.4	2587.7	481.1	141.5	109.7	84.2	65.6	55.9	49.0	46.9	47.6
47.5°	3585.8	2812.1	372.7	127.0	95.3	71.1	55.9	48.3	43.5	40.7	40.7
50°	3980.6	2966.7	283.0	110.4	84.2	60.1	49.0	43.5	39.3	38.0	37.3
52.5°	4310.6	3011.5	216.7	95.9	73.9	51.8	43.5	39.3	35.9	33.8	33.8
55°	4591.5	2972.2	169.8	80.8	62.1	44.9	38.7	35.2	31.1	29.0	28.3
57.5°	4755.8	2845.9	129.8	67.0	50.4	37.3	33.8	29.7	24.8	21.4	21.4
60°	4838.6	2662.3	99.4	55.2	38.7	29.7	27.6	22.1	17.3	14.5	13.8
62.5°	4739.2	2418.6	75.2	43.5	29.0	22.1	18.6	15.9	11.0	8.3	8.3
63°	4677.8	2348.2	72.5	41.4	26.9	20.7	17.3	14.5	9.7	7.6	6.9
65°	4264.3	2041.1	59.4	33.1	21.4	14.5	11.7	10.4	6.9	3.5	2.8
67.5°	3386.3	1561.3	46.9	24.8	15.2	10.4	6.9	6.2	2.1	0.0	0.0
70°	2289.5	1008.4	36.6	17.9	10.4	6.2	3.5	2.8	0.7	0.0	0.0
72.5°	1194.1	517.0	28.3	13.1	6.2	4.1	2.1	0.7	0.0	0.0	0.0
75°	422.4	176.0	20.7	8.3	4.1	2.1	0.7	0.0	0.0	0.0	0.0
77.5°	127.7	65.6	13.1	6.2	2.8	1.4	0.0	0.0	0.0	0.0	0.0
80°	44.9	24.2	7.6	4.1	2.1	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	22.1	11.7	4.8	3.5	2.1	0.7	0.0	0.0	0.0	0.0	0.0
85°	12.4	7.6	4.1	3.5	2.1	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	9.0	5.5	4.1	3.5	2.8	1.4	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)