

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: P452218

Luminaire Tested: **GALN-SA3A-827-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7260 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

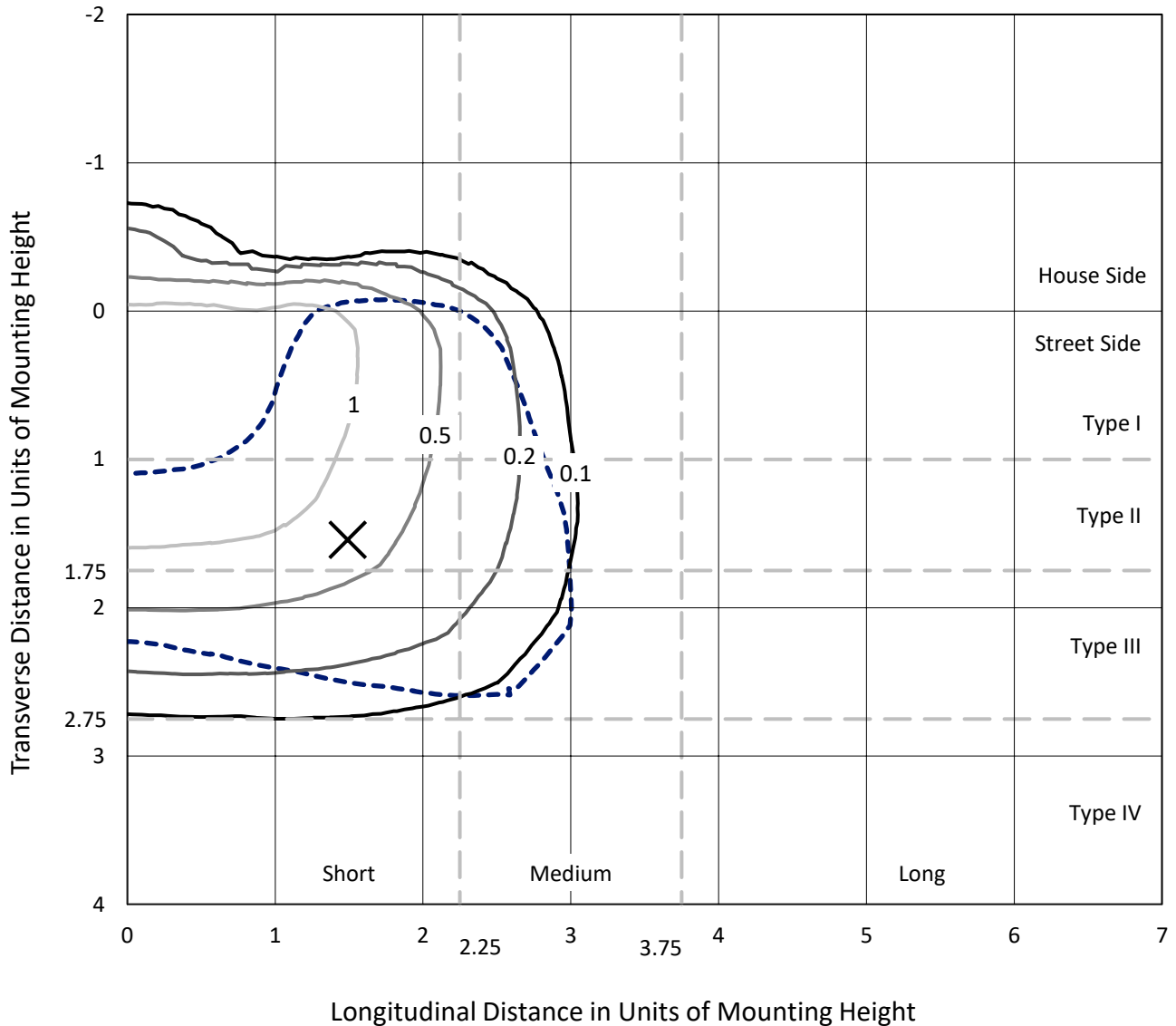
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

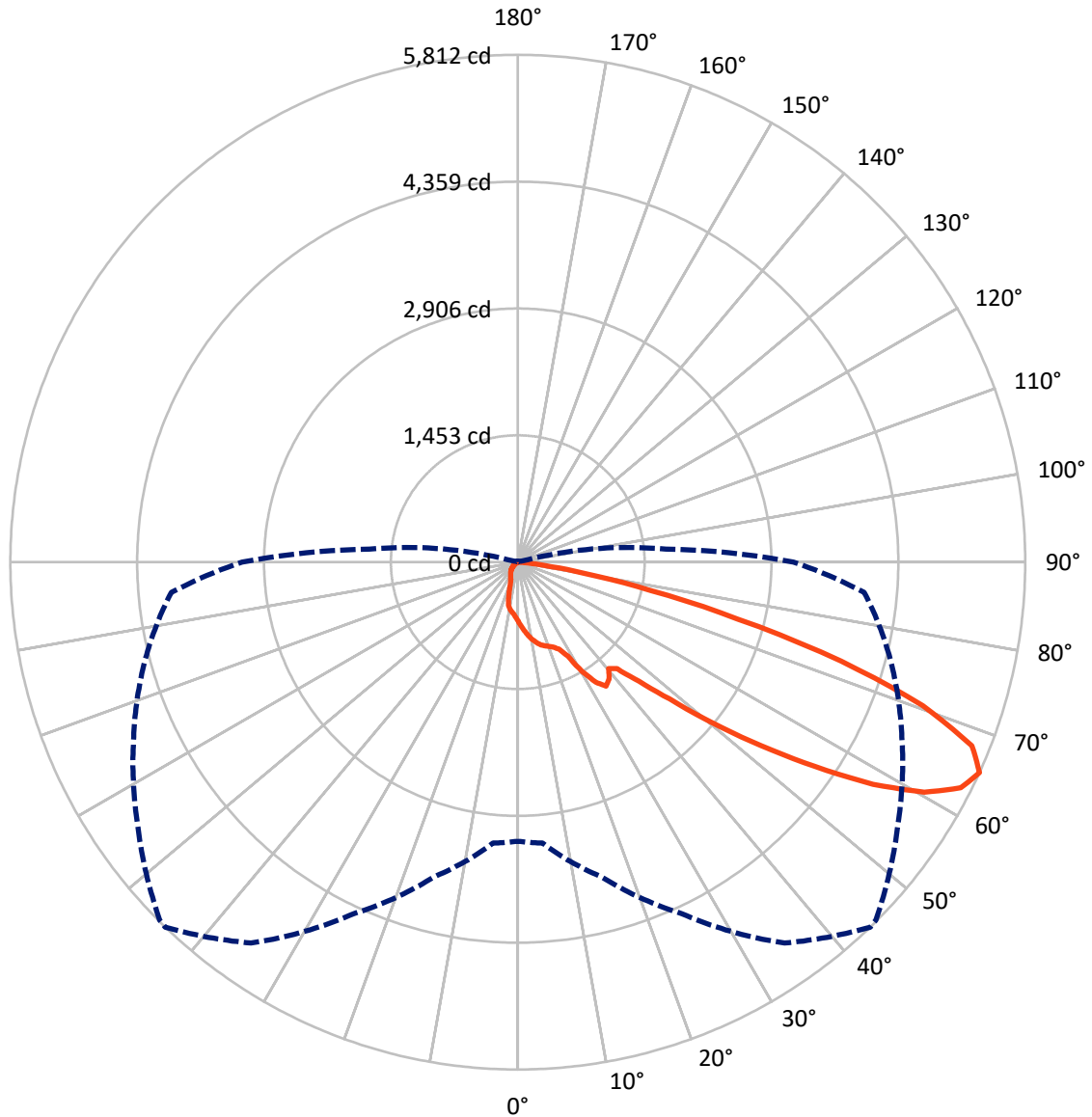
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	668.9	0.0	668.9
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	6591.1	0.0	6591.1
	% Fixture	90.8	0.0	90.8
Total	Lumens	7260.0	0.0	7260.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	0.9
10°-20°	202.3	2.8
20°-30°	343.0	4.7
30°-40°	570.2	7.9
40°-50°	995.6	13.7
50°-60°	1945.1	26.8
60°-70°	2256.8	31.1
70°-80°	821.8	11.3
80°-90°	57.9	0.8
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°	7260.0	100.0
0°-180°	7260.0	100.0

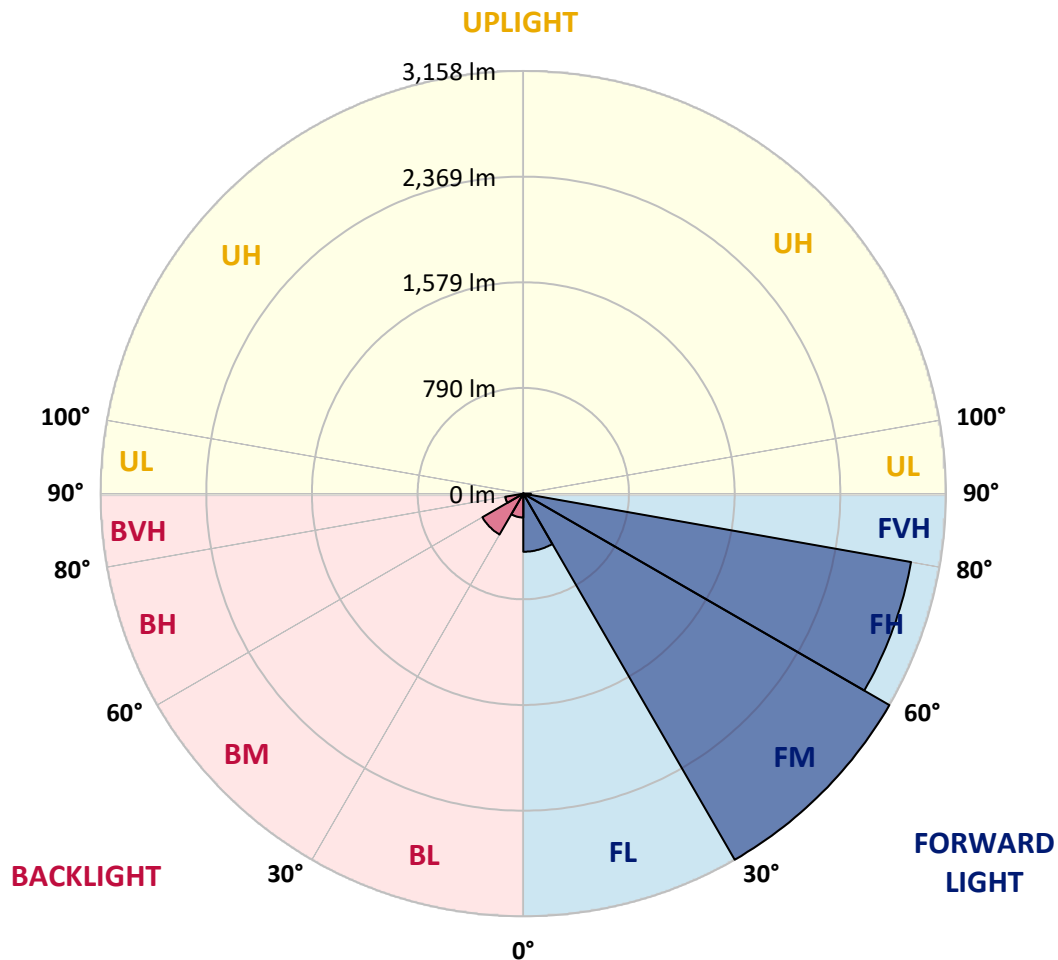


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	434.2	6.0			
FM (30°-60°)	3158.1	43.5			
FH (60°-80°)	2941.7	40.5			G2/5000
FVH (80°-90°)	57.1	0.8			G1/100
BL (0°-30°)	178.2	2.5	B1/500		
BM (30°-60°)	352.9	4.9	B1/1000		
BH (60°-80°)	137.0	1.9	B1/500		G1/500
BVH (80°-90°)	0.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7
2.5°	760.6	757.2	755.6	746.7	740.0	731.7	731.7	721.2	709.0	695.7	683.5
5°	845.4	839.9	832.7	824.9	809.4	787.2	787.2	765.0	739.5	716.7	691.8
7.5°	927.0	922.0	909.8	894.8	869.3	846.0	844.3	812.2	781.6	747.3	711.7
10°	998.6	994.7	984.1	955.3	928.7	898.1	897.6	861.5	826.0	783.9	740.0
12.5°	1048.5	1049.0	1035.2	1007.4	973.0	944.2	942.0	906.5	869.3	823.8	770.0
15°	1084.0	1084.0	1069.6	1038.5	1007.4	981.9	979.7	948.6	910.4	861.0	802.7
17.5°	1094.0	1097.3	1081.8	1054.0	1029.1	1006.9	1006.3	980.2	949.7	902.0	836.0
20°	1090.1	1093.4	1081.2	1059.6	1042.4	1029.6	1028.0	1017.4	989.1	944.2	871.5
22.5°	1081.8	1085.1	1076.2	1063.5	1055.1	1059.0	1056.3	1065.1	1050.1	995.8	913.7
25°	1083.4	1086.8	1080.1	1072.9	1080.1	1104.0	1111.2	1149.4	1136.1	1061.2	959.2
27.5°	1135.6	1142.2	1132.8	1136.1	1161.7	1217.1	1231.0	1297.0	1238.2	1144.5	1030.2
30°	1251.5	1247.1	1229.3	1245.4	1334.2	1451.8	1447.9	1437.4	1345.3	1240.4	1114.5
32.5°	1356.9	1353.0	1351.9	1421.3	1582.2	1639.3	1636.5	1534.4	1441.2	1350.3	1197.7
35°	1399.6	1384.7	1381.3	1549.4	1818.5	1743.0	1725.8	1574.4	1557.7	1470.1	1282.6
37.5°	1528.3	1517.8	1466.2	1570.5	1724.2	1699.2	1685.9	1643.2	1682.0	1576.1	1378.6
40°	1793.5	1764.1	1717.5	1615.4	1590.5	1601.0	1614.3	1731.4	1829.0	1720.8	1506.7
42.5°	2123.0	2116.4	2029.8	1839.6	1652.6	1667.0	1684.2	1915.6	2040.4	1938.9	1715.9
45°	2518.6	2528.0	2403.2	2178.5	1933.3	1945.5	1970.5	2187.4	2326.6	2277.8	2044.8
47.5°	2878.1	2870.8	2828.7	2595.1	2368.8	2341.6	2382.1	2536.3	2722.7	2730.5	2453.1
50°	3239.8	3278.0	3215.3	3123.8	2955.7	2898.6	2883.6	2959.1	3243.1	3205.9	2943.5
52.5°	3759.6	3779.5	3661.9	3638.6	3676.9	3491.6	3476.6	3494.9	3749.0	3621.4	3310.8
55°	4086.3	4074.7	4030.8	4212.8	4364.2	4132.9	4114.1	4040.3	4169.0	3914.9	3664.1
57.5°	4189.5	4206.1	4308.2	4637.2	4995.6	4799.2	4764.8	4555.1	4471.9	4188.4	3989.2
60°	4143.5	4174.0	4394.2	4883.5	5380.6	5351.2	5321.7	4969.5	4689.3	4416.9	4217.2
62.5°	3815.6	3858.3	4210.6	4839.7	5510.9	5694.5	5657.9	5228.0	4834.1	4527.9	4257.2
65°	3197.6	3229.2	3735.2	4441.9	5325.6	5812.2	5798.8	5309.0	4856.9	4426.4	3983.7
67.5°	2279.5	2387.1	2855.9	3743.5	4777.5	5611.3	5634.1	5211.9	4643.3	3987.6	3299.1
70°	1432.9	1506.2	1842.3	2680.0	3830.0	4922.9	4997.8	4767.5	4029.7	3108.3	2208.5
72.5°	683.5	737.8	977.5	1696.4	2703.3	3873.3	3932.6	3913.8	3116.0	1958.3	1139.5
75°	304.6	325.1	466.5	866.0	1745.3	2603.5	2757.1	2782.6	1947.2	958.1	443.2
77.5°	155.3	155.9	218.6	419.4	871.5	1553.3	1583.8	1673.1	1055.7	422.2	154.2
80°	82.7	88.2	115.9	198.0	452.1	765.0	761.1	836.6	468.2	206.9	51.6
82.5°	37.2	41.1	65.5	103.7	220.8	290.1	312.9	342.3	200.8	132.0	22.7
85°	11.1	13.3	32.2	52.1	79.9	83.8	93.8	120.9	113.7	93.8	11.6
87.5°	1.7	1.7	13.3	14.4	11.6	15.0	15.5	17.2	36.6	34.4	6.1
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°	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7
2.5°	676.8	672.9	659.0	647.4	637.4	631.3	624.1	619.7	617.4	615.8	616.3
5°	679.6	670.1	646.3	627.4	613.0	597.5	586.9	580.8	578.1	573.6	573.6
7.5°	695.1	680.1	646.8	618.0	593.0	572.0	552.0	544.8	539.8	538.7	537.6
10°	717.3	698.4	652.9	613.0	577.5	548.7	520.4	495.4	476.0	464.3	462.7
12.5°	745.0	717.9	662.4	609.7	564.2	513.1	438.3	387.8	353.9	343.4	345.1
15°	770.6	741.2	671.8	606.9	539.8	425.5	340.6	282.9	265.7	264.1	264.6
17.5°	801.1	766.1	682.9	603.0	472.6	325.1	253.0	237.4	240.8	246.3	245.8
20°	832.7	792.7	696.2	579.7	377.2	244.6	223.6	225.2	230.2	235.2	236.3
22.5°	866.5	823.3	711.7	523.7	287.9	213.0	211.9	214.1	219.1	224.7	225.8
25°	913.1	861.5	723.4	450.5	218.0	196.9	199.2	203.0	207.5	213.6	214.7
27.5°	973.0	913.1	729.5	355.0	188.6	182.5	183.1	188.6	194.2	199.7	199.7
30°	1050.7	974.7	717.3	268.5	174.2	168.6	166.4	169.8	177.0	182.5	183.1
32.5°	1120.0	1033.0	685.1	205.3	163.7	155.9	150.3	150.9	153.7	157.0	157.5
35°	1189.4	1089.5	630.2	172.5	152.6	143.7	135.4	130.9	128.7	127.0	128.7
37.5°	1278.2	1160.0	557.0	157.0	143.1	132.0	120.4	111.0	103.2	98.2	99.3
40°	1392.4	1257.6	470.4	147.0	134.3	120.9	105.4	93.2	79.9	75.4	73.2
42.5°	1581.0	1405.7	379.5	138.7	125.4	109.3	89.9	73.2	61.0	56.6	57.7
45°	1878.9	1592.7	292.4	129.8	116.5	96.5	75.4	57.7	47.7	45.5	46.6
47.5°	2273.9	1834.6	225.2	119.8	105.4	82.7	59.4	45.5	39.4	38.8	38.3
50°	2645.6	2059.8	188.1	108.7	92.1	68.8	48.8	38.3	34.4	33.8	33.8
52.5°	2981.8	2221.2	153.1	96.0	77.7	56.6	41.1	33.8	30.5	28.8	28.8
55°	3280.8	2326.6	124.3	80.4	61.0	44.9	35.5	30.5	26.6	24.4	23.9
57.5°	3506.6	2339.4	93.2	64.4	45.5	34.9	30.5	26.6	22.2	19.4	18.3
60°	3603.1	2229.0	68.8	48.8	33.8	27.7	24.4	21.6	16.6	13.9	13.3
62.5°	3506.0	2014.3	51.0	37.2	26.1	20.5	17.2	16.1	11.6	8.3	7.8
65°	3158.2	1704.2	40.5	28.3	19.4	15.0	11.1	10.5	7.2	3.9	3.3
67.5°	2530.2	1334.7	32.2	21.1	13.9	10.0	7.2	6.7	3.9	1.1	1.1
70°	1645.4	853.2	26.1	15.5	8.9	6.7	4.4	3.3	2.2	0.6	0.0
72.5°	813.8	398.9	21.1	12.2	6.1	3.3	1.7	1.1	1.7	0.0	0.0
75°	315.7	142.0	15.5	8.3	3.3	1.7	1.1	0.0	0.6	0.0	0.0
77.5°	104.8	47.2	9.4	4.4	2.2	1.1	0.0	0.0	0.0	0.0	0.0
80°	38.8	18.3	5.0	2.8	1.1	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	15.5	7.2	3.3	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.8	4.4	2.2	1.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	3.3	2.2	1.7	1.1	0.6	0.0	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)