

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: P451348

Luminaire Tested: **GALN-SA2B-722-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451348
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-SA2B-722-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2200K, 800mA 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: 6085 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

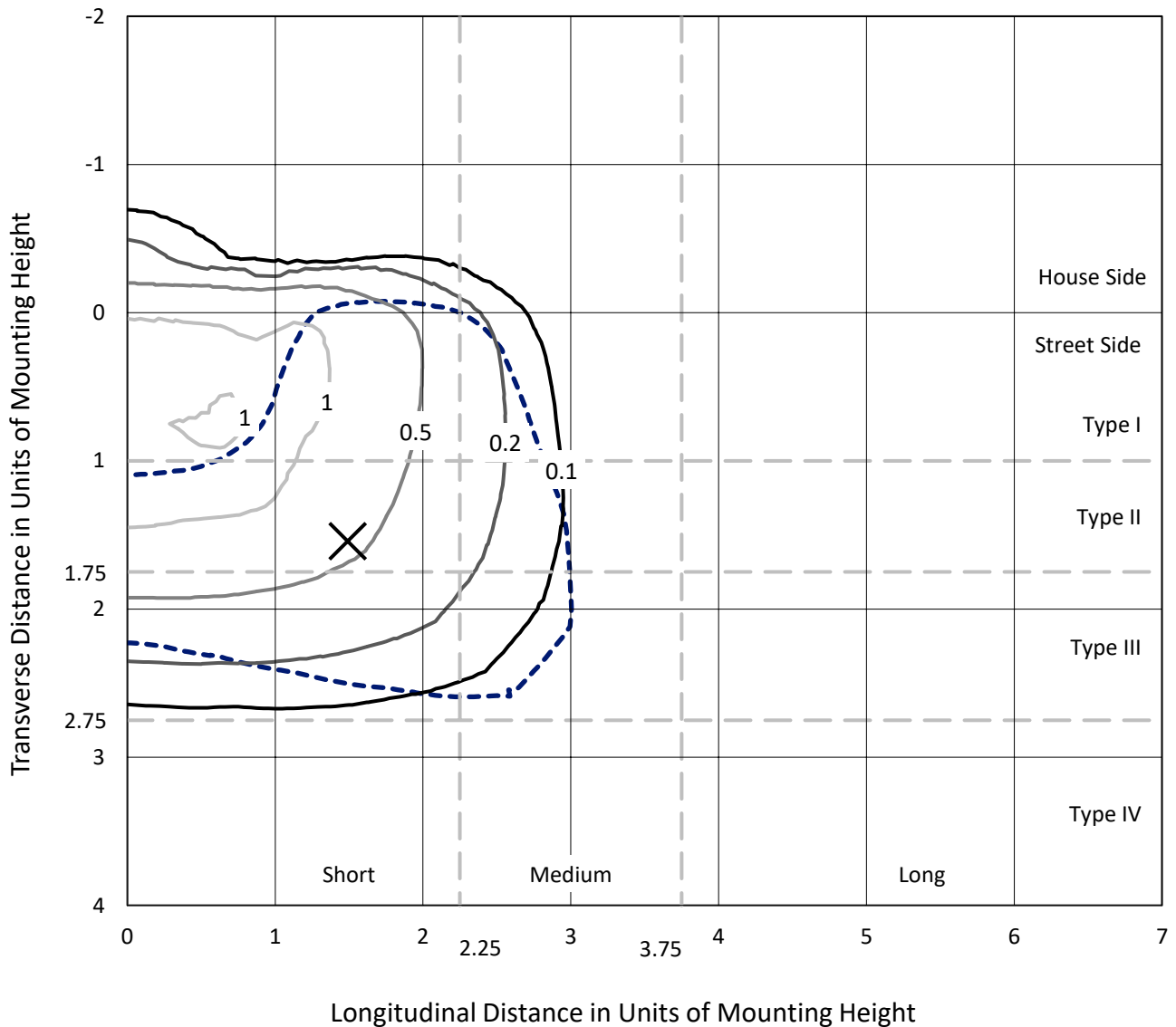
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

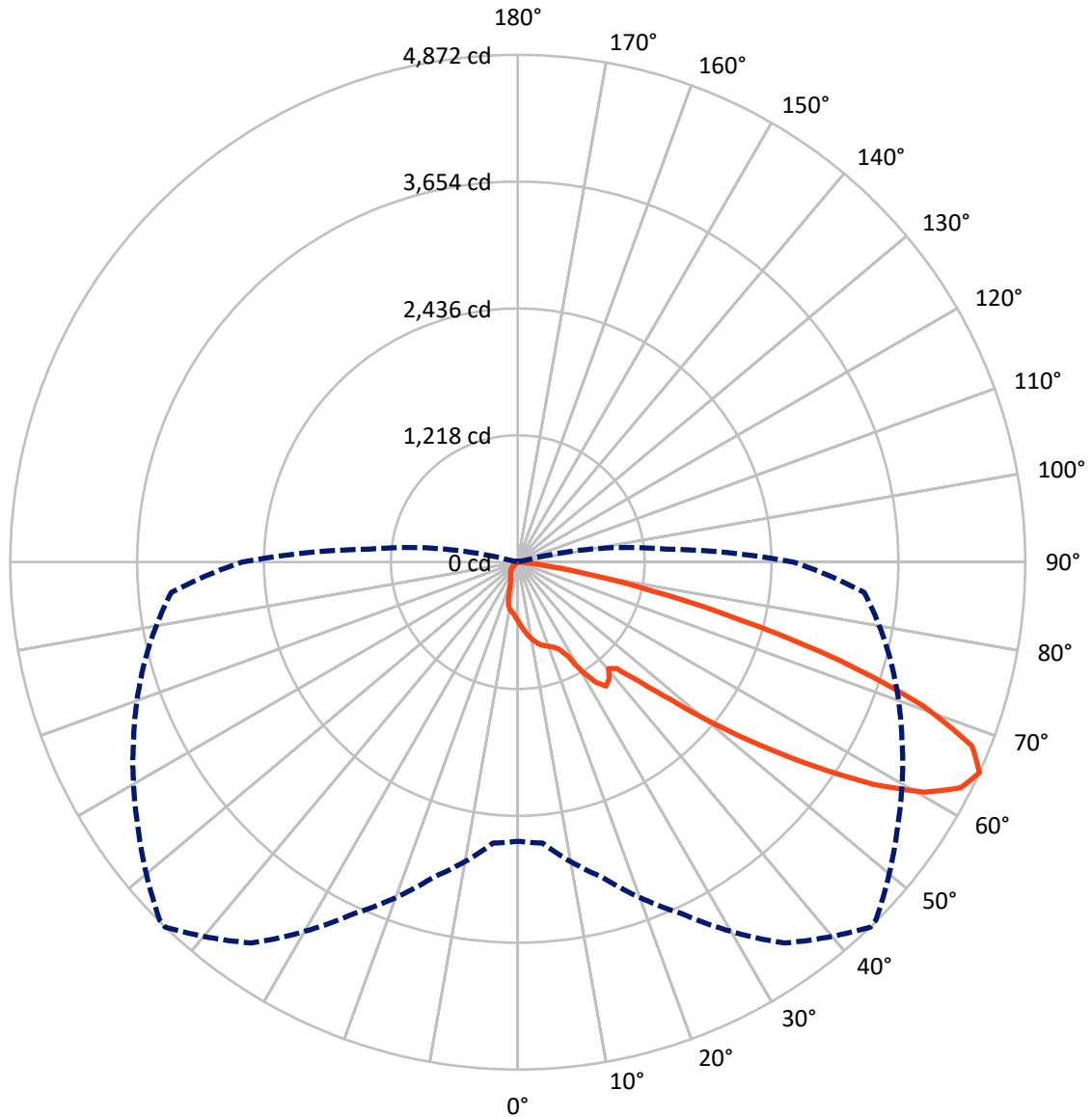
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	560.6	0.0	560.6
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	5524.4	0.0	5524.4
	% Fixture	90.8	0.0	90.8
Total	Lumens	6085.0	0.0	6085.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	0.9
10°-20°	169.5	2.8
20°-30°	287.5	4.7
30°-40°	478.0	7.9
40°-50°	834.5	13.7
50°-60°	1630.3	26.8
60°-70°	1891.6	31.1
70°-80°	688.8	11.3
80°-90°	48.5	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°	6085.0	100.0
0°-180°	6085.0	100.0



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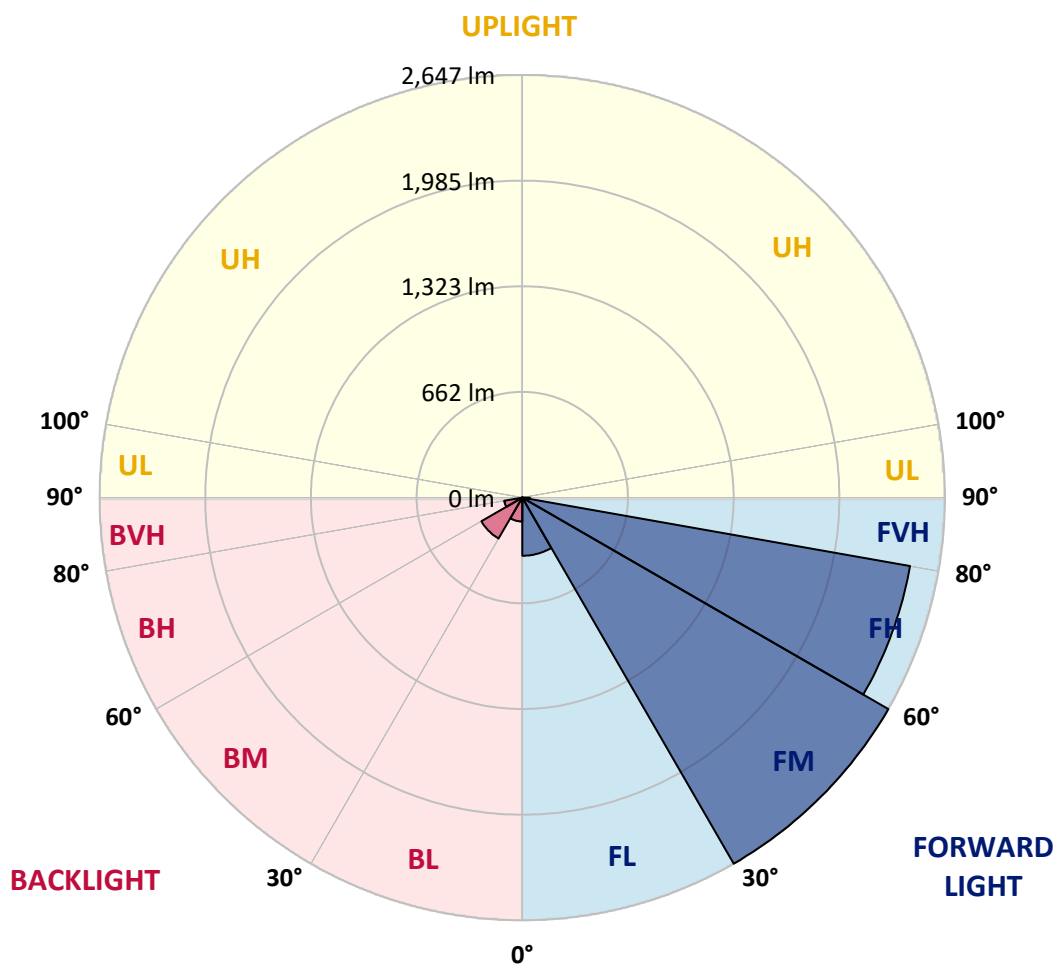
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	363.9	6.0			
FM (30°-60°)	2647.0	43.5			
FH (60°-80°)	2465.6	40.5			G2/5000
FVH (80°-90°)	47.9	0.8			G1/100
BL (0°-30°)	149.4	2.5	B1/500		
BM (30°-60°)	295.8	4.9	B1/1000		
BH (60°-80°)	114.8	1.9	B1/500		G1/500
BVH (80°-90°)	0.7	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°	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3
2.5°	637.5	634.7	633.3	625.8	620.3	613.3	613.3	604.5	594.2	583.1	572.8
5°	708.6	704.0	697.9	691.4	678.4	659.8	659.8	641.2	619.8	600.7	579.8
7.5°	777.0	772.8	762.5	750.0	728.6	709.1	707.7	680.7	655.1	626.3	596.6
10°	836.9	833.7	824.9	800.7	778.4	752.8	752.3	722.1	692.3	657.0	620.3
12.5°	878.8	879.3	867.6	844.4	815.6	791.4	789.5	759.8	728.6	690.5	645.4
15°	908.5	908.5	896.5	870.4	844.4	823.0	821.1	795.1	763.0	721.6	672.8
17.5°	916.9	919.7	906.7	883.4	862.5	843.9	843.5	821.6	796.0	756.0	700.7
20°	913.7	916.5	906.2	888.1	873.7	863.0	861.6	852.8	829.0	791.4	730.5
22.5°	906.7	909.5	902.0	891.3	884.4	887.6	885.3	892.7	880.2	834.6	765.8
25°	908.1	910.9	905.3	899.2	905.3	925.3	931.3	963.4	952.3	889.5	803.9
27.5°	951.8	957.4	949.5	952.3	973.6	1020.1	1031.8	1087.1	1037.8	959.2	863.4
30°	1049.0	1045.2	1030.4	1043.9	1118.3	1216.8	1213.6	1204.7	1127.5	1039.7	934.1
32.5°	1137.3	1134.1	1133.1	1191.3	1326.1	1374.0	1371.7	1286.1	1208.0	1131.7	1003.9
35°	1173.1	1160.6	1157.8	1298.7	1524.2	1460.9	1446.5	1319.6	1305.6	1232.2	1075.0
37.5°	1281.0	1272.2	1228.9	1316.3	1445.1	1424.2	1413.0	1377.2	1409.8	1321.0	1155.4
40°	1503.2	1478.6	1439.5	1354.0	1333.1	1341.9	1353.1	1451.2	1533.0	1442.3	1262.9
42.5°	1779.4	1773.9	1701.3	1541.8	1385.1	1397.2	1411.6	1605.5	1710.2	1625.1	1438.1
45°	2111.0	2118.9	2014.2	1825.9	1620.4	1630.6	1651.6	1833.4	1950.1	1909.2	1713.9
47.5°	2412.3	2406.2	2370.9	2175.1	1985.4	1962.6	1996.6	2125.8	2282.1	2288.6	2056.1
50°	2715.4	2747.5	2695.0	2618.2	2477.4	2429.5	2416.9	2480.1	2718.2	2687.1	2467.1
52.5°	3151.1	3167.8	3069.3	3049.7	3081.8	2926.5	2914.0	2929.3	3142.3	3035.3	2774.9
55°	3425.0	3415.2	3378.5	3531.0	3657.9	3464.0	3448.2	3386.4	3494.2	3281.3	3071.1
57.5°	3511.4	3525.4	3610.9	3886.7	4187.0	4022.4	3993.6	3817.9	3748.1	3510.5	3343.6
60°	3472.9	3498.4	3683.0	4093.1	4509.7	4485.1	4460.4	4165.2	3930.4	3702.1	3534.7
62.5°	3198.1	3233.9	3529.1	4056.4	4619.0	4772.9	4742.2	4381.9	4051.7	3795.1	3568.2
65°	2680.1	2706.6	3130.6	3723.0	4463.7	4871.5	4860.3	4449.8	4070.8	3710.0	3338.9
67.5°	1910.6	2000.8	2393.7	3137.6	4004.3	4703.2	4722.2	4368.4	3891.8	3342.2	2765.2
70°	1201.0	1262.4	1544.2	2246.3	3210.1	4126.1	4188.9	3995.9	3377.5	2605.2	1851.0
72.5°	572.8	618.4	819.3	1421.9	2265.8	3246.4	3296.2	3280.4	2611.7	1641.3	955.0
75°	255.3	272.5	391.0	725.8	1462.8	2182.1	2310.9	2332.3	1632.0	803.0	371.5
77.5°	130.2	130.7	183.2	351.5	730.5	1301.9	1327.5	1402.3	884.8	353.8	129.3
80°	69.3	73.9	97.2	166.0	378.9	641.2	637.9	701.2	392.4	173.4	43.2
82.5°	31.2	34.4	54.9	86.9	185.1	243.2	262.2	286.9	168.3	110.7	19.1
85°	9.3	11.2	27.0	43.7	67.0	70.2	78.6	101.4	95.3	78.6	9.8
87.5°	1.4	1.4	11.2	12.1	9.8	12.6	13.0	14.4	30.7	28.8	5.1
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°	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3
2.5°	567.3	564.0	552.4	542.6	534.2	529.1	523.1	519.4	517.5	516.1	516.6
5°	569.6	561.7	541.7	525.9	513.8	500.8	491.9	486.8	484.5	480.8	480.8
7.5°	582.6	570.1	542.2	518.0	497.1	479.4	462.6	456.6	452.4	451.5	450.6
10°	601.2	585.4	547.3	513.8	484.0	459.9	436.1	415.2	398.9	389.2	387.8
12.5°	624.5	601.7	555.2	511.0	472.9	430.1	367.3	325.0	296.7	287.8	289.2
15°	645.8	621.2	563.1	508.7	452.4	356.6	285.5	237.1	222.7	221.3	221.8
17.5°	671.4	642.1	572.4	505.4	396.2	272.5	212.0	199.0	201.8	206.4	206.0
20°	697.9	664.4	583.5	485.9	316.2	205.1	187.4	188.8	193.0	197.1	198.1
22.5°	726.3	690.0	596.6	438.9	241.3	178.5	177.6	179.5	183.7	188.3	189.2
25°	765.3	722.1	606.3	377.6	182.7	165.1	166.9	170.2	173.9	179.0	179.9
27.5°	815.6	765.3	611.4	297.6	158.1	153.0	153.4	158.1	162.7	167.4	167.4
30°	880.7	817.0	601.2	225.0	146.0	141.4	139.5	142.3	148.3	153.0	153.4
32.5°	938.8	865.8	574.2	172.0	137.2	130.7	126.0	126.5	128.8	131.6	132.1
35°	996.9	913.2	528.2	144.6	127.9	120.4	113.5	109.7	107.9	106.5	107.9
37.5°	1071.3	972.2	466.8	131.6	120.0	110.7	100.9	93.0	86.5	82.3	83.2
40°	1167.1	1054.1	394.3	123.2	112.5	101.4	88.3	78.1	67.0	63.2	61.4
42.5°	1325.2	1178.2	318.0	116.2	105.1	91.6	75.3	61.4	51.1	47.4	48.4
45°	1574.8	1334.9	245.0	108.8	97.6	80.9	63.2	48.4	40.0	38.1	39.1
47.5°	1905.9	1537.7	188.8	100.4	88.3	69.3	49.8	38.1	33.0	32.5	32.1
50°	2217.4	1726.4	157.6	91.1	77.2	57.7	40.9	32.1	28.8	28.4	28.4
52.5°	2499.2	1861.7	128.3	80.4	65.1	47.4	34.4	28.4	25.6	24.2	24.2
55°	2749.8	1950.1	104.2	67.4	51.1	37.7	29.8	25.6	22.3	20.5	20.0
57.5°	2939.1	1960.8	78.1	53.9	38.1	29.3	25.6	22.3	18.6	16.3	15.3
60°	3020.0	1868.2	57.7	40.9	28.4	23.2	20.5	18.1	13.9	11.6	11.2
62.5°	2938.6	1688.3	42.8	31.2	21.9	17.2	14.4	13.5	9.8	7.0	6.5
65°	2647.1	1428.4	33.9	23.7	16.3	12.6	9.3	8.8	6.0	3.3	2.8
67.5°	2120.7	1118.7	27.0	17.7	11.6	8.4	6.0	5.6	3.3	0.9	0.9
70°	1379.1	715.1	21.9	13.0	7.4	5.6	3.7	2.8	1.9	0.5	0.0
72.5°	682.1	334.3	17.7	10.2	5.1	2.8	1.4	0.9	1.4	0.0	0.0
75°	264.6	119.0	13.0	7.0	2.8	1.4	0.9	0.0	0.5	0.0	0.0
77.5°	87.9	39.5	7.9	3.7	1.9	0.9	0.0	0.0	0.0	0.0	0.0
80°	32.5	15.3	4.2	2.3	0.9	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	13.0	6.0	2.8	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.5	3.7	1.9	1.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	2.8	1.9	1.4	0.9	0.5	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)