

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: P450501

Luminaire Tested: **GALN-SA1B-740-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450501
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-SA1B-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4227 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

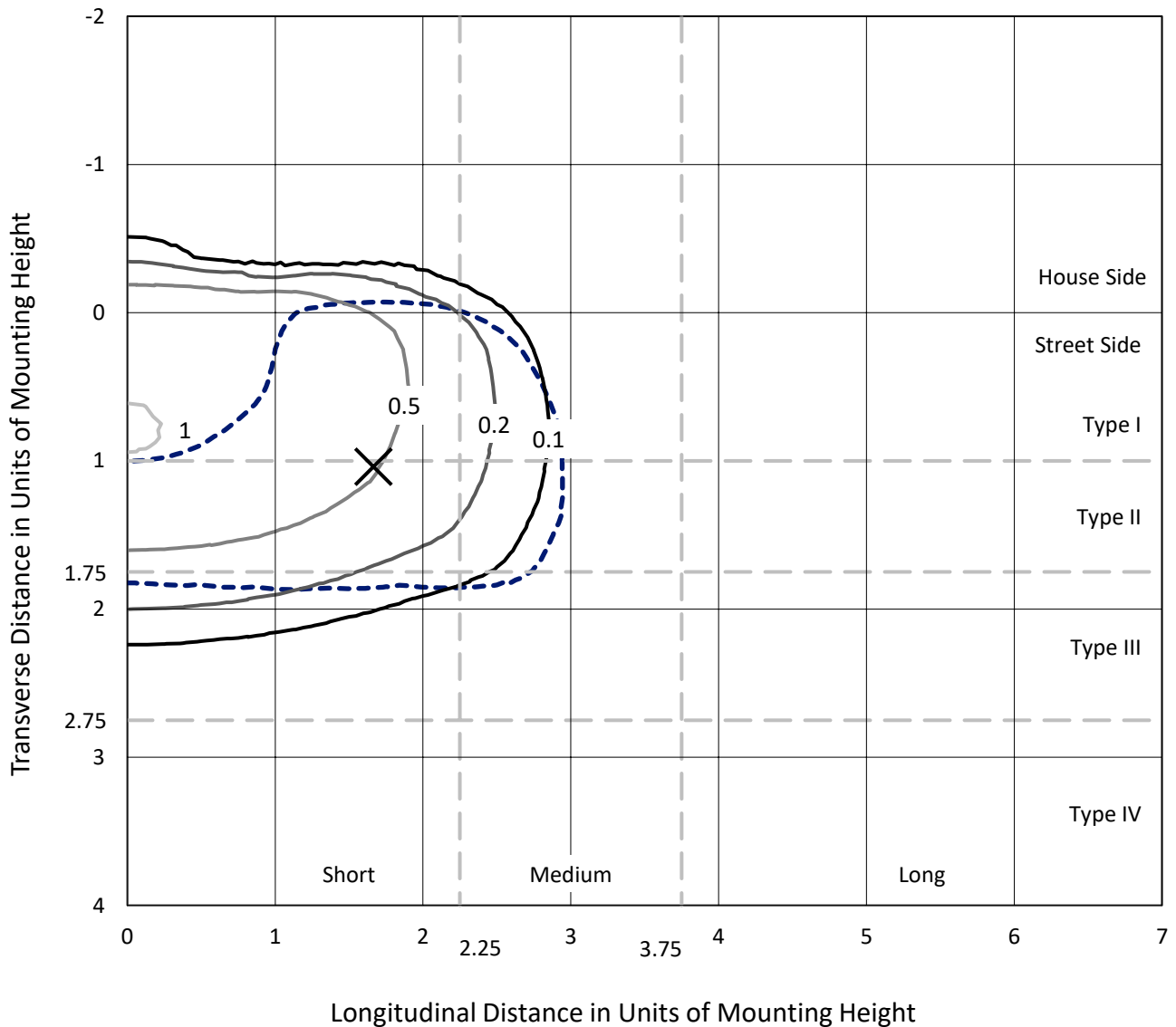
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

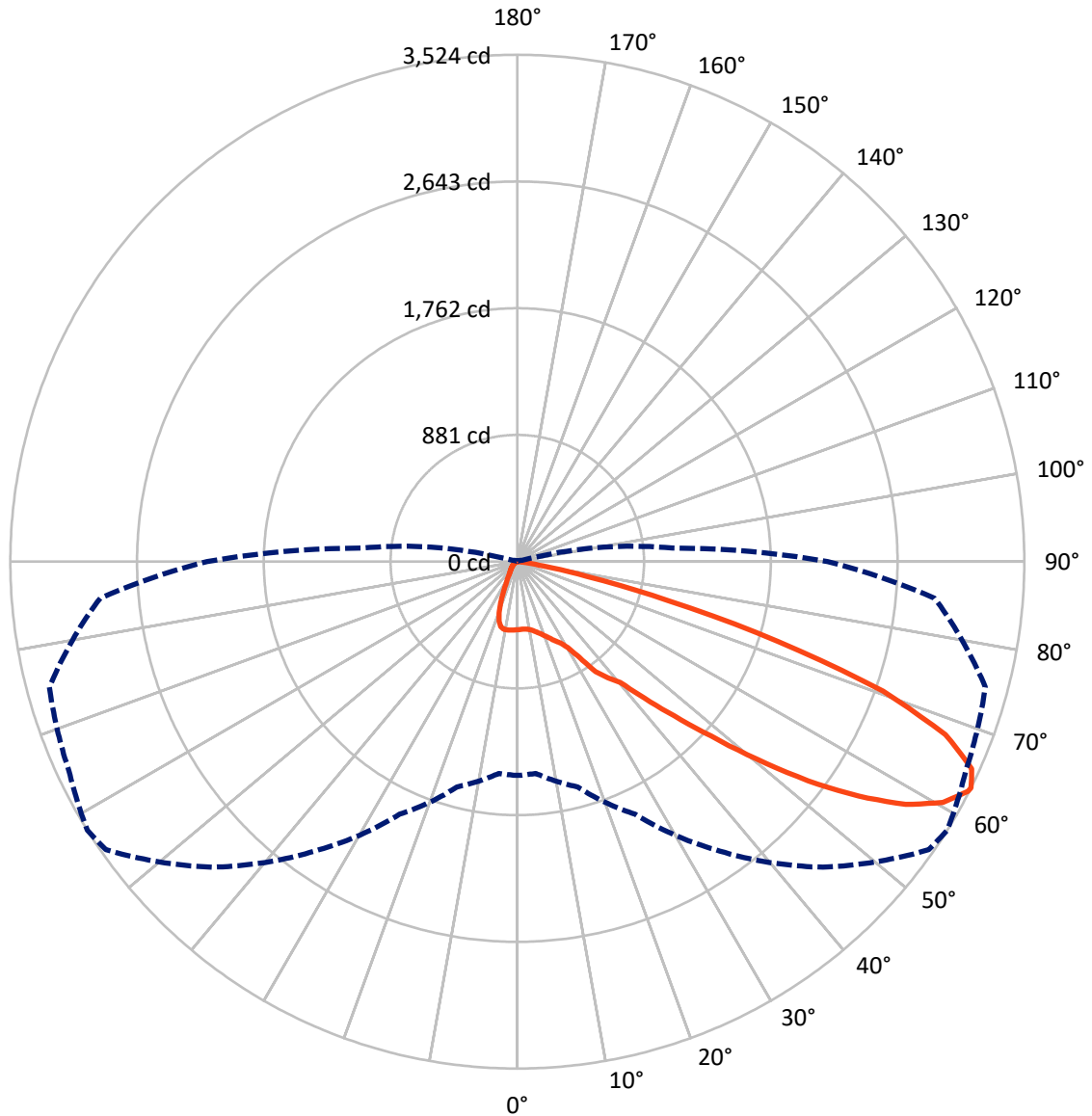
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	437.7	0.0	437.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	3789.3	0.0	3789.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	4227.0	0.0	4227.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.3	1.0
10°-20°	120.7	2.9
20°-30°	209.4	5.0
30°-40°	384.8	9.1
40°-50°	724.4	17.1
50°-60°	1239.0	29.3
60°-70°	1186.4	28.1
70°-80°	302.5	7.2
80°-90°	15.5	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°	4227.0	100.0
0°-180°	4227.0	100.0



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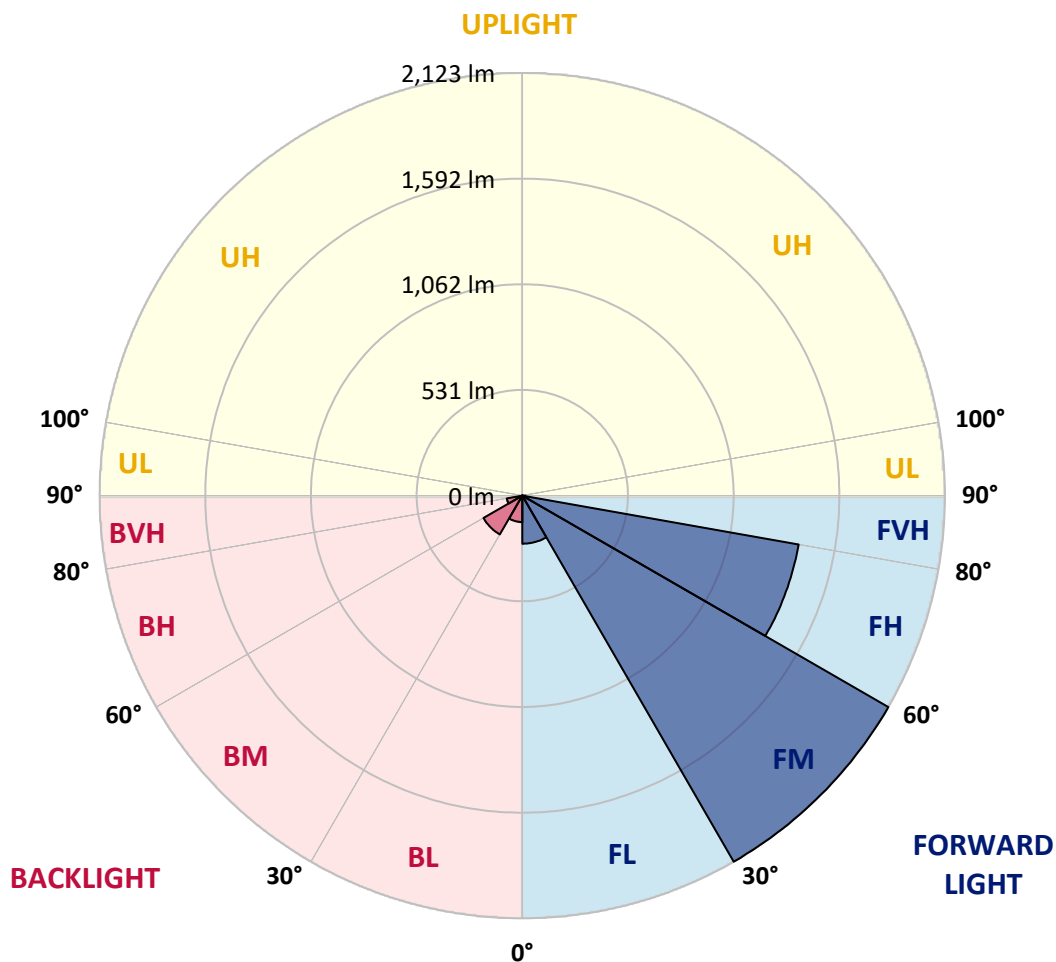
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	241.6	5.7			
FM (30°-60°)	2123.1	50.2			
FH (60°-80°)	1409.7	33.3			G1/1800
FVH (80°-90°)	14.9	0.4			G1/100
BL (0°-30°)	132.7	3.1	B1/500		
BM (30°-60°)	225.1	5.3	B1/1000		
BH (60°-80°)	79.2	1.9	B0/110		G0/110
BVH (80°-90°)	0.6	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	473.2	473.2	473.2	473.2	473.2	473.2	473.2	473.2	473.2	473.2	473.2
2.5°	461.5	463.0	464.6	465.3	467.5	469.7	471.3	471.0	473.5	474.8	474.8
5°	443.0	443.0	447.1	451.0	457.3	463.7	469.7	471.0	475.8	480.2	481.8
7.5°	427.4	428.4	431.5	438.5	447.1	458.3	470.4	473.2	481.5	491.4	495.5
10°	420.1	420.7	424.9	432.2	443.0	458.3	475.1	480.5	493.3	508.9	514.6
12.5°	418.5	419.4	423.6	431.9	444.3	462.7	485.6	491.4	509.8	529.9	538.5
15°	421.4	422.0	426.1	435.0	448.7	470.7	499.6	507.6	529.6	552.8	563.9
17.5°	431.5	430.9	433.8	441.1	456.4	480.5	516.5	526.1	551.8	583.7	591.0
20°	474.8	470.7	468.1	461.8	467.8	494.6	536.9	550.9	582.7	615.2	620.3
22.5°	568.1	558.8	540.7	515.9	496.8	513.6	561.4	577.6	618.7	650.5	650.5
25°	686.8	675.0	656.9	602.8	556.0	545.2	589.1	609.4	657.8	690.0	679.5
27.5°	835.4	826.2	790.8	727.8	656.2	600.2	621.2	640.0	692.5	731.3	709.4
30°	956.3	951.9	922.9	866.6	787.7	705.9	681.0	693.5	738.6	783.5	760.9
32.5°	1058.5	1058.5	1028.9	976.4	902.5	830.0	782.6	791.5	834.8	886.6	844.6
35°	1170.8	1167.0	1143.1	1093.2	1010.4	946.5	927.0	939.1	978.3	1016.8	913.4
37.5°	1288.9	1287.6	1262.8	1214.4	1147.0	1066.4	1020.9	1024.1	1044.2	1067.7	993.9
40°	1417.1	1419.1	1386.6	1356.7	1293.0	1210.6	1123.4	1103.4	1122.1	1188.6	1142.5
42.5°	1568.6	1564.2	1550.2	1509.4	1458.2	1408.9	1304.2	1296.8	1313.4	1384.7	1334.7
45°	1744.6	1751.0	1726.8	1704.2	1669.8	1628.8	1541.3	1528.5	1546.7	1657.4	1586.4
47.5°	1920.9	1914.9	1930.5	1926.3	1944.8	1914.2	1836.9	1810.8	1854.4	1959.4	1855.0
50°	2055.2	2061.9	2094.4	2141.8	2221.0	2238.2	2164.1	2155.1	2174.6	2242.0	2095.3
52.5°	2142.4	2164.7	2215.6	2337.5	2480.4	2591.5	2535.1	2530.4	2522.4	2540.5	2325.1
55°	2199.4	2222.0	2288.5	2468.0	2714.0	2894.4	2897.3	2876.9	2824.4	2811.4	2539.9
57.5°	2164.4	2168.8	2263.7	2503.6	2843.5	3110.5	3204.1	3183.7	3086.6	3037.3	2729.6
60°	1945.4	1954.7	2086.7	2368.7	2787.2	3181.2	3407.4	3398.2	3291.9	3236.2	2877.2
62.5°	1557.5	1584.2	1720.1	2034.5	2525.3	3062.1	3489.9	3516.0	3433.2	3356.5	2923.7
63°	1486.2	1477.6	1621.1	1937.2	2455.9	3003.3	3491.1	3524.2	3439.6	3368.0	2911.0
65°	1100.2	1125.9	1219.2	1527.6	2043.8	2729.3	3412.5	3471.1	3416.0	3317.4	2770.0
67.5°	617.7	616.4	719.5	999.6	1430.5	2140.8	3085.7	3209.5	3198.0	2976.9	2296.1
70°	302.3	307.1	349.4	518.1	829.7	1477.0	2564.1	2697.8	2701.9	2338.1	1587.7
72.5°	136.8	139.1	169.3	252.4	426.4	786.4	1766.9	1894.5	1871.0	1490.0	876.8
75°	72.2	77.0	93.2	127.0	205.6	324.3	961.1	1084.6	1035.2	680.7	322.7
77.5°	53.5	55.1	63.3	80.8	110.1	126.3	414.7	493.3	462.1	246.3	106.9
80°	39.1	40.4	47.1	57.3	69.4	64.3	156.3	179.2	160.7	83.7	32.8
82.5°	23.9	24.2	34.4	42.6	43.6	36.0	51.6	55.4	57.9	47.1	17.8
85°	8.6	10.8	23.2	30.9	25.8	18.1	21.6	23.9	26.1	29.9	10.5
87.5°	1.0	1.3	11.1	15.0	7.3	6.7	8.0	8.9	9.5	11.1	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°	473.2	473.2	473.2	473.2	473.2	473.2	473.2	473.2	473.2	473.2	473.2
2.5°	476.1	477.4	476.4	474.8	474.5	473.5	471.6	471.6	471.6	472.3	471.6
5°	483.1	484.0	481.8	478.6	475.1	470.7	465.9	463.0	462.7	462.1	460.5
7.5°	496.5	497.7	492.6	485.0	475.5	464.6	454.5	444.9	440.4	436.9	436.9
10°	515.9	517.1	507.0	493.3	474.2	452.2	428.0	406.1	388.9	380.9	379.0
12.5°	539.1	539.7	522.9	499.0	467.5	425.2	373.6	325.6	292.1	276.9	275.3
15°	564.6	560.1	537.8	501.2	448.4	369.5	280.4	221.5	186.8	176.6	180.4
17.5°	590.3	582.1	549.3	497.7	405.4	280.4	188.4	151.2	140.3	137.5	137.5
20°	614.5	603.1	557.6	482.5	331.0	193.2	139.7	130.8	128.9	127.0	127.3
22.5°	638.7	621.2	564.9	448.4	246.6	138.1	125.1	122.2	119.7	117.1	116.8
25°	662.3	638.1	567.7	385.4	168.0	118.7	114.2	110.4	105.3	102.5	101.8
27.5°	686.8	658.4	565.8	305.8	122.5	106.3	101.8	96.4	90.4	85.3	85.3
30°	733.9	697.3	559.2	219.9	103.1	93.6	87.8	79.2	72.6	67.5	67.1
32.5°	798.2	747.9	536.2	154.7	91.7	82.4	73.8	64.3	57.3	53.5	53.5
35°	855.4	798.8	493.3	113.9	82.4	71.6	61.1	51.9	46.5	43.9	43.0
37.5°	942.6	873.3	434.1	92.6	73.5	62.1	51.2	42.6	38.2	36.3	36.3
40°	1073.4	964.3	361.5	81.2	64.9	52.8	42.6	36.0	32.5	30.2	30.2
42.5°	1235.7	1075.7	288.0	72.9	57.0	45.5	35.6	30.6	27.4	25.8	25.5
45°	1440.1	1193.1	221.8	65.2	50.6	38.8	30.2	25.8	22.6	21.6	22.0
47.5°	1653.3	1296.5	171.9	58.6	43.9	32.8	25.8	22.3	20.0	18.8	18.8
50°	1835.3	1367.8	130.5	50.9	38.8	27.7	22.6	20.0	18.1	17.5	17.2
52.5°	1987.4	1388.5	99.9	44.2	34.1	23.9	20.0	18.1	16.5	15.6	15.6
55°	2117.0	1370.4	78.3	37.2	28.6	20.7	17.8	16.2	14.3	13.4	13.0
57.5°	2192.7	1312.1	59.8	30.9	23.2	17.2	15.6	13.7	11.5	9.9	9.9
60°	2230.9	1227.5	45.8	25.5	17.8	13.7	12.7	10.2	8.0	6.7	6.4
62.5°	2185.1	1115.1	34.7	20.0	13.4	10.2	8.6	7.3	5.1	3.8	3.8
63°	2156.7	1082.7	33.4	19.1	12.4	9.5	8.0	6.7	4.5	3.5	3.2
65°	1966.1	941.0	27.4	15.3	9.9	6.7	5.4	4.8	3.2	1.6	1.3
67.5°	1561.3	719.9	21.6	11.5	7.0	4.8	3.2	2.9	1.0	0.0	0.0
70°	1055.6	465.0	16.9	8.3	4.8	2.9	1.6	1.3	0.3	0.0	0.0
72.5°	550.6	238.4	13.0	6.0	2.9	1.9	1.0	0.3	0.0	0.0	0.0
75°	194.8	81.2	9.5	3.8	1.9	1.0	0.3	0.0	0.0	0.0	0.0
77.5°	58.9	30.2	6.0	2.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0
80°	20.7	11.1	3.5	1.9	1.0	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	10.2	5.4	2.2	1.6	1.0	0.3	0.0	0.0	0.0	0.0	0.0
85°	5.7	3.5	1.9	1.6	1.0	0.6	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	2.5	1.9	1.6	1.3	0.6	0.3	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)