

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: P450681

Luminaire Tested: **GALN-SA1C-727-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450681  
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-SA1C-727-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4304 lumens  
Efficiency: N/A  
Efficacy: 75.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

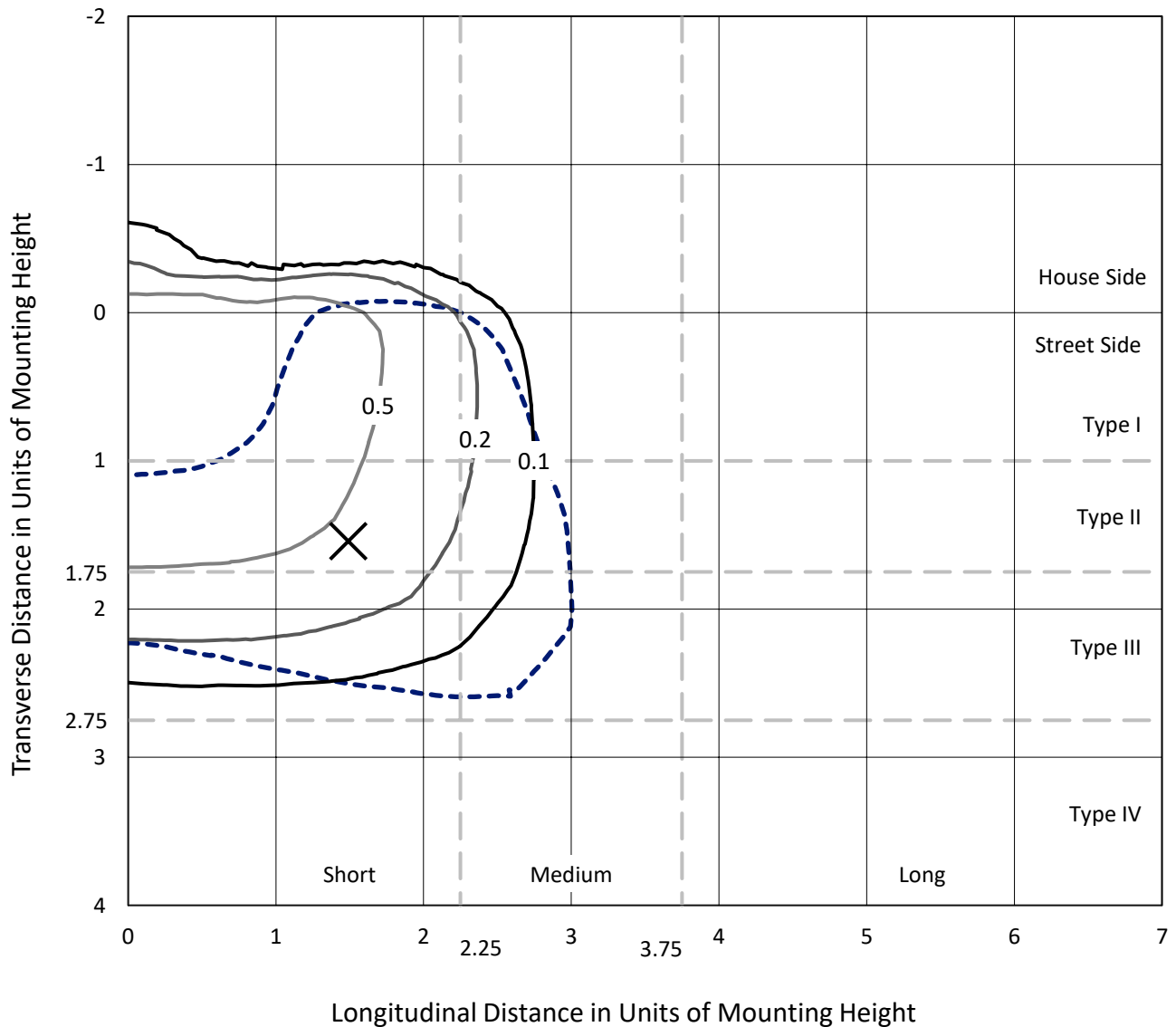
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

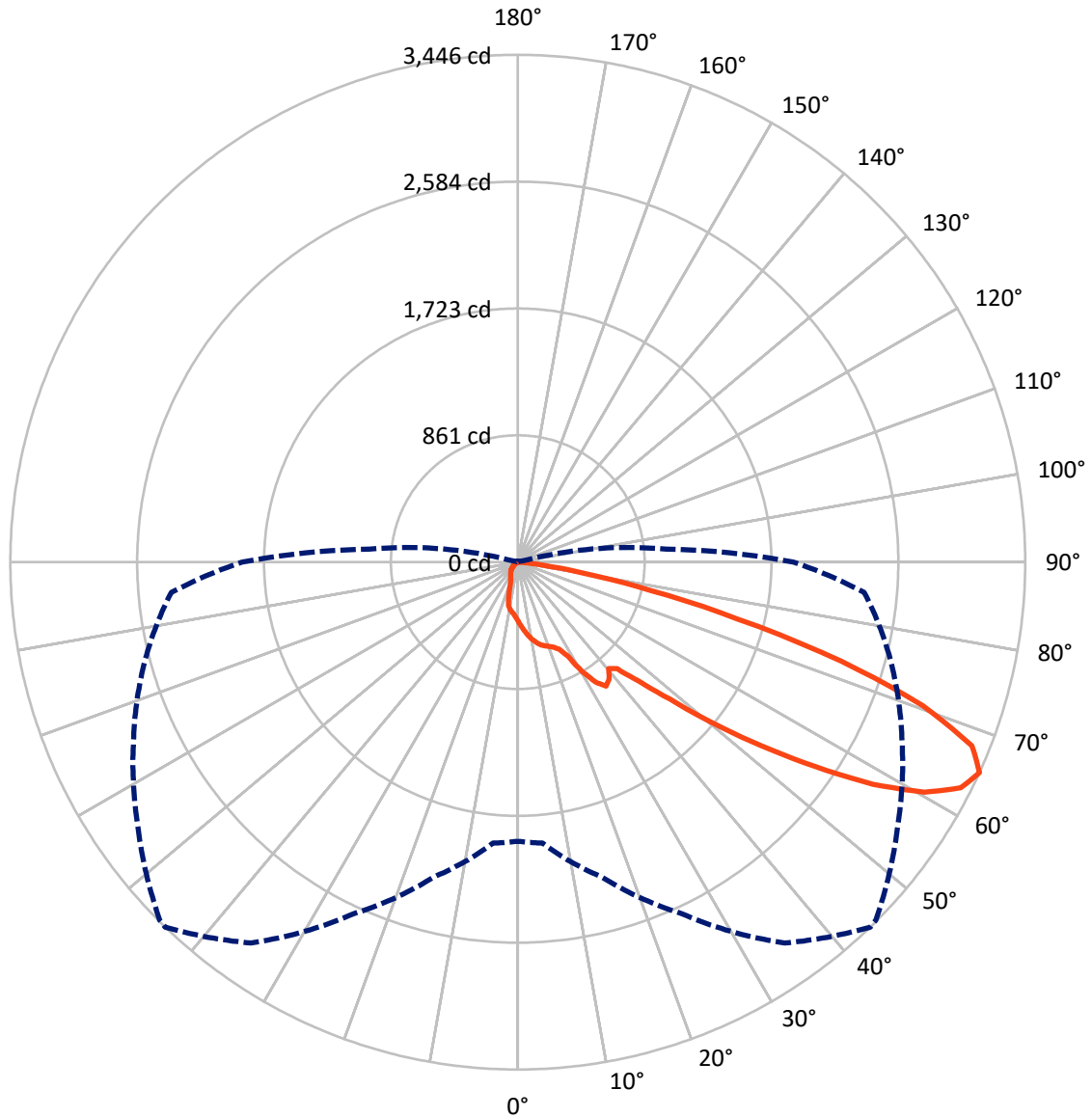
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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
<b>House Side</b>	Lumens	396.6	0.0	396.6
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	3907.5	0.0	3907.5
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	4304.0	0.0	4304.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.8	0.9
10°-20°	119.9	2.8
20°-30°	203.3	4.7
30°-40°	338.1	7.9
40°-50°	590.3	13.7
50°-60°	1153.1	26.8
60°-70°	1337.9	31.1
70°-80°	487.2	11.3
80°-90°	34.3	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°	4304.0	100.0
0°-180°	4304.0	100.0

**Coefficient of Utilization**

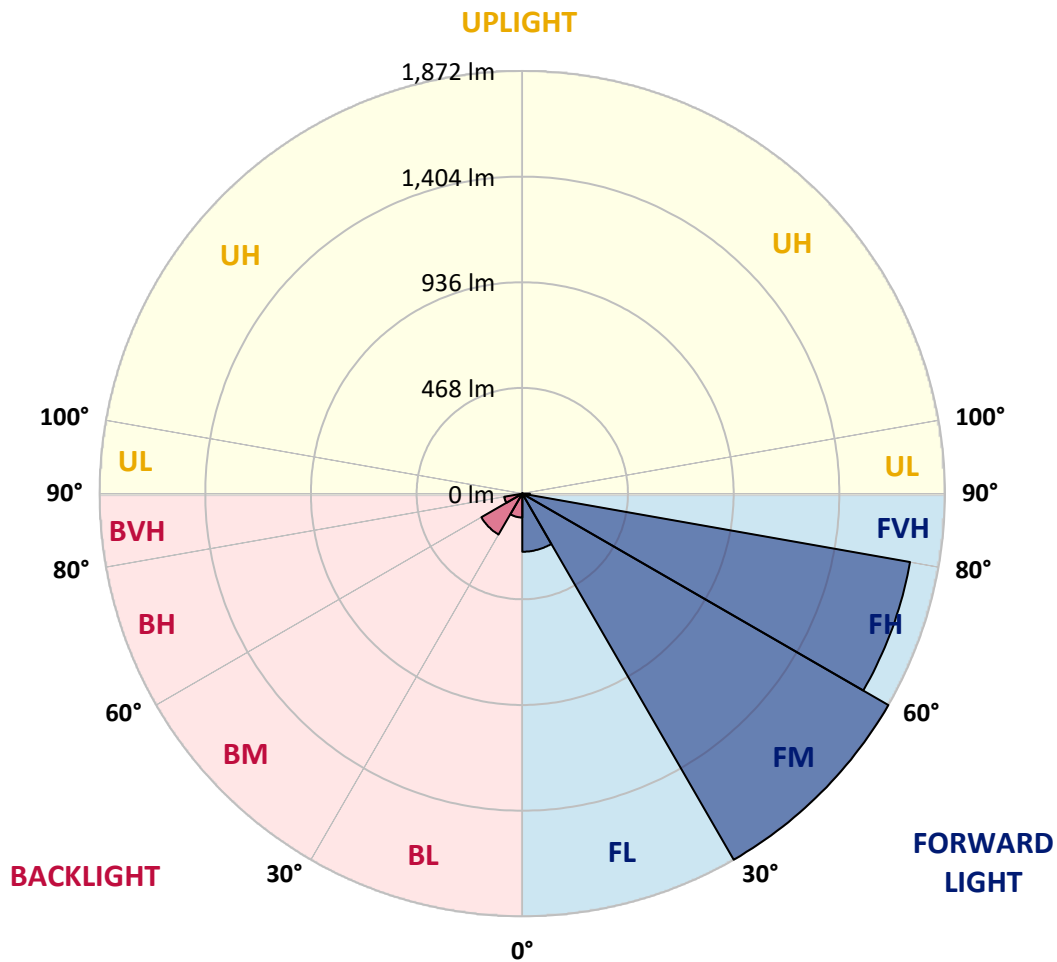


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	257.4	6.0			
FM (30°-60°)	1872.2	43.5			
FH (60°-80°)	1743.9	40.5			G1/1800
FVH (80°-90°)	33.9	0.8			G1/100
BL (0°-30°)	105.7	2.5	B0/110		
BM (30°-60°)	209.2	4.9	B0/220		
BH (60°-80°)	81.2	1.9	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	400.6	400.6	400.6	400.6	400.6	400.6	400.6	400.6	400.6	400.6	400.6
2.5°	450.9	448.9	447.9	442.7	438.7	433.8	433.8	427.5	420.3	412.4	405.2
5°	501.2	497.9	493.6	489.0	479.8	466.7	466.7	453.5	438.4	424.9	410.1
7.5°	549.6	546.6	539.4	530.5	515.4	501.5	500.6	481.5	463.4	443.0	422.0
10°	592.0	589.7	583.4	566.3	550.5	532.5	532.1	510.7	489.7	464.7	438.7
12.5°	621.6	621.9	613.7	597.2	576.9	559.8	558.4	537.4	515.4	488.4	456.5
15°	642.6	642.6	634.1	615.7	597.2	582.1	580.8	562.4	539.7	510.4	475.9
17.5°	648.5	650.5	641.3	624.9	610.1	596.9	596.6	581.1	563.0	534.8	495.6
20°	646.2	648.2	641.0	628.2	618.0	610.4	609.4	603.2	586.4	559.8	516.7
22.5°	641.3	643.3	638.0	630.5	625.5	627.8	626.2	631.4	622.6	590.3	541.7
25°	642.3	644.3	640.3	636.1	640.3	654.5	658.7	681.4	673.5	629.1	568.6
27.5°	673.2	677.2	671.6	673.5	688.7	721.6	729.8	768.9	734.1	678.5	610.7
30°	741.9	739.3	728.8	738.3	791.0	860.7	858.4	852.1	797.5	735.4	660.7
32.5°	804.4	802.1	801.5	842.6	938.0	971.8	970.2	909.7	854.4	800.5	710.0
35°	829.8	820.9	818.9	918.6	1078.1	1033.3	1023.1	933.4	923.5	871.5	760.4
37.5°	906.1	899.8	869.2	931.1	1022.2	1007.4	999.5	974.1	997.2	934.3	817.3
40°	1063.3	1045.8	1018.2	957.7	942.9	949.1	957.0	1026.4	1084.3	1020.2	893.2
42.5°	1258.6	1254.7	1203.4	1090.6	979.7	988.3	998.5	1135.6	1209.6	1149.4	1017.2
45°	1493.1	1498.7	1424.7	1291.5	1146.1	1153.4	1168.2	1296.8	1379.3	1350.4	1212.2
47.5°	1706.2	1701.9	1677.0	1538.5	1404.3	1388.2	1412.2	1503.6	1614.1	1618.7	1454.3
50°	1920.7	1943.3	1906.2	1851.9	1752.3	1718.4	1709.5	1754.2	1922.6	1900.6	1745.0
52.5°	2228.8	2240.6	2170.9	2157.1	2179.8	2070.0	2061.1	2071.9	2222.6	2146.9	1962.7
55°	2422.5	2415.6	2389.6	2497.5	2587.3	2450.1	2439.0	2395.2	2471.5	2320.9	2172.2
57.5°	2483.7	2493.6	2554.1	2749.1	2961.6	2845.1	2824.7	2700.4	2651.1	2483.0	2365.0
60°	2456.4	2474.5	2605.0	2895.1	3189.8	3172.4	3154.9	2946.1	2780.0	2618.5	2500.1
62.5°	2262.0	2287.4	2496.2	2869.1	3267.1	3375.9	3354.2	3099.4	2865.8	2684.3	2523.8
65°	1895.7	1914.4	2214.3	2633.3	3157.2	3445.7	3437.8	3147.4	2879.3	2624.1	2361.7
67.5°	1351.4	1415.2	1693.1	2219.3	2832.3	3326.6	3340.1	3089.8	2752.7	2364.0	1955.8
70°	849.5	892.9	1092.2	1588.8	2270.6	2918.5	2962.9	2826.4	2389.0	1842.7	1309.3
72.5°	405.2	437.4	579.5	1005.7	1602.6	2296.2	2331.4	2320.2	1847.3	1160.9	675.5
75°	180.6	192.7	276.6	513.4	1034.7	1543.4	1634.5	1649.7	1154.4	568.0	262.8
77.5°	92.1	92.4	129.6	248.6	516.7	920.9	938.9	991.9	625.9	250.3	91.4
80°	49.0	52.3	68.7	117.4	268.0	453.5	451.2	495.9	277.6	122.7	30.6
82.5°	22.0	24.3	38.8	61.5	130.9	172.0	185.5	202.9	119.1	78.3	13.5
85°	6.6	7.9	19.1	30.9	47.4	49.7	55.6	71.7	67.4	55.6	6.9
87.5°	1.0	1.0	7.9	8.6	6.9	8.9	9.2	10.2	21.7	20.4	3.6
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°	400.6	400.6	400.6	400.6	400.6	400.6	400.6	400.6	400.6	400.6	400.6
2.5°	401.2	398.9	390.7	383.8	377.9	374.3	370.0	367.4	366.0	365.1	365.4
5°	402.9	397.3	383.1	372.0	363.4	354.2	348.0	344.3	342.7	340.1	340.1
7.5°	412.1	403.2	383.5	366.4	351.6	339.1	327.2	323.0	320.0	319.3	318.7
10°	425.2	414.1	387.1	363.4	342.4	325.3	308.5	293.7	282.2	275.3	274.3
12.5°	441.7	425.6	392.7	361.4	334.5	304.2	259.8	229.9	209.8	203.6	204.6
15°	456.8	439.4	398.3	359.8	320.0	252.2	201.9	167.7	157.5	156.5	156.9
17.5°	474.9	454.2	404.8	357.5	280.2	192.7	150.0	140.8	142.7	146.0	145.7
20°	493.6	470.0	412.7	343.7	223.6	145.0	132.5	133.5	136.5	139.4	140.1
22.5°	513.7	488.1	422.0	310.5	170.7	126.3	125.6	126.9	129.9	133.2	133.9
25°	541.3	510.7	428.9	267.0	129.2	116.8	118.1	120.4	123.0	126.6	127.3
27.5°	576.9	541.3	432.5	210.5	111.8	108.2	108.5	111.8	115.1	118.4	118.4
30°	622.9	577.8	425.2	159.2	103.3	100.0	98.7	100.6	104.9	108.2	108.5
32.5°	664.0	612.4	406.2	121.7	97.0	92.4	89.1	89.5	91.1	93.1	93.4
35°	705.1	645.9	373.6	102.3	90.4	85.2	80.2	77.6	76.3	75.3	76.3
37.5°	757.7	687.7	330.2	93.1	84.9	78.3	71.4	65.8	61.2	58.2	58.9
40°	825.5	745.6	278.9	87.2	79.6	71.7	62.5	55.3	47.4	44.7	43.4
42.5°	937.3	833.4	225.0	82.2	74.3	64.8	53.3	43.4	36.2	33.5	34.2
45°	1113.9	944.2	173.3	77.0	69.1	57.2	44.7	34.2	28.3	27.0	27.6
47.5°	1348.1	1087.6	133.5	71.0	62.5	49.0	35.2	27.0	23.4	23.0	22.7
50°	1568.4	1221.1	111.5	64.5	54.6	40.8	28.9	22.7	20.4	20.1	20.1
52.5°	1767.7	1316.8	90.8	56.9	46.0	33.5	24.3	20.1	18.1	17.1	17.1
55°	1945.0	1379.3	73.7	47.7	36.2	26.6	21.0	18.1	15.8	14.5	14.1
57.5°	2078.8	1386.9	55.3	38.1	27.0	20.7	18.1	15.8	13.2	11.5	10.9
60°	2136.1	1321.4	40.8	28.9	20.1	16.4	14.5	12.8	9.9	8.2	7.9
62.5°	2078.5	1194.2	30.3	22.0	15.5	12.2	10.2	9.5	6.9	4.9	4.6
65°	1872.3	1010.3	24.0	16.8	11.5	8.9	6.6	6.2	4.3	2.3	2.0
67.5°	1500.0	791.3	19.1	12.5	8.2	5.9	4.3	3.9	2.3	0.7	0.7
70°	975.5	505.8	15.5	9.2	5.3	3.9	2.6	2.0	1.3	0.3	0.0
72.5°	482.5	236.5	12.5	7.2	3.6	2.0	1.0	0.7	1.0	0.0	0.0
75°	187.1	84.2	9.2	4.9	2.0	1.0	0.7	0.0	0.3	0.0	0.0
77.5°	62.2	28.0	5.6	2.6	1.3	0.7	0.0	0.0	0.0	0.0	0.0
80°	23.0	10.9	3.0	1.6	0.7	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	9.2	4.3	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.6	2.6	1.3	1.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	2.0	1.3	1.0	0.7	0.3	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)