

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: P648241

Luminaire Tested: **GALN-SA1B-835-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648241  
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-SA1B-835-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 800mA 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: 3261.2 lumens  
Efficiency: N/A  
Efficacy: 74.1 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): 44  
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

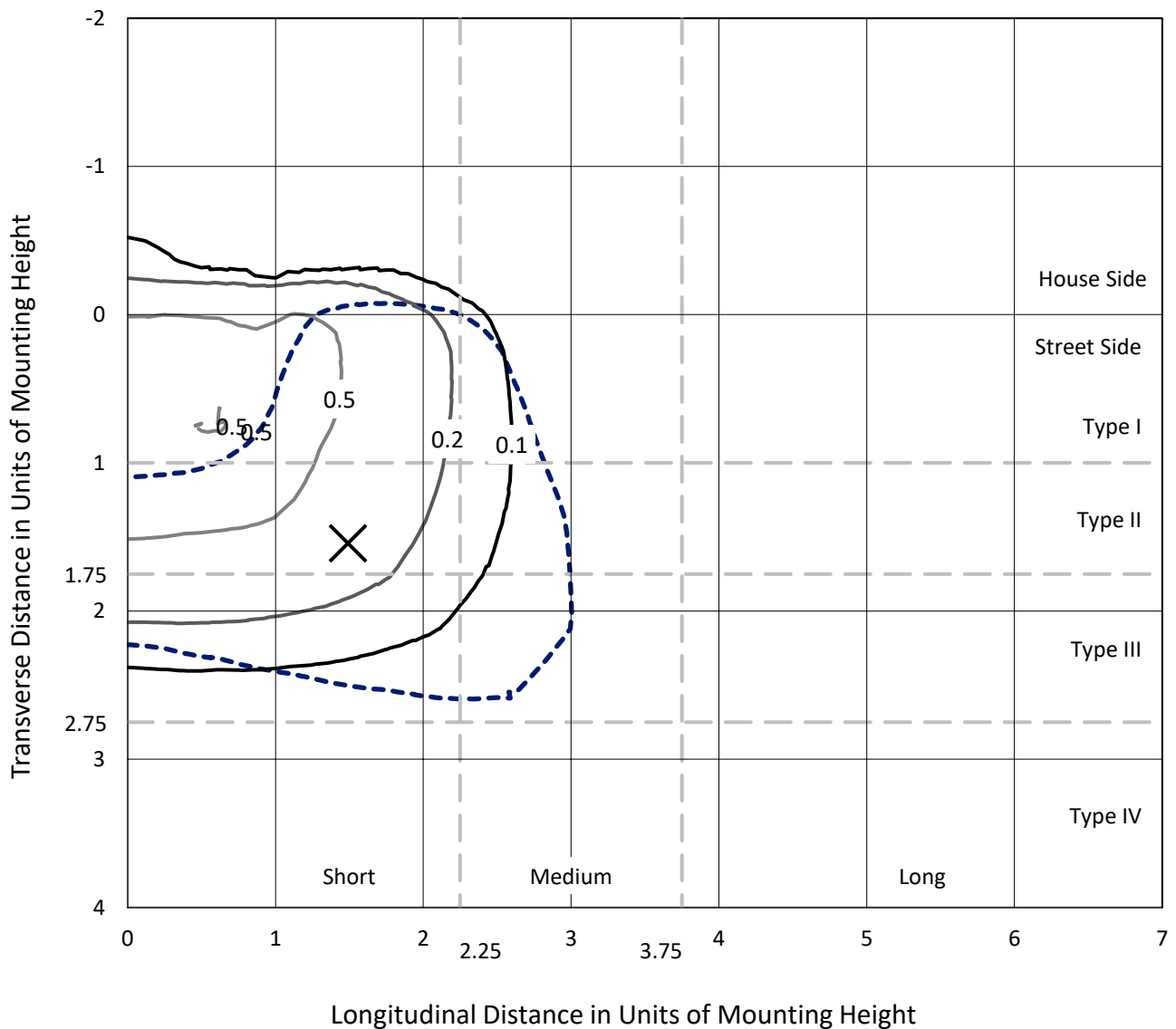




REPORT NUMBER: P648241  
 CATALOG NUMBER: GALN-SA1B-835-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

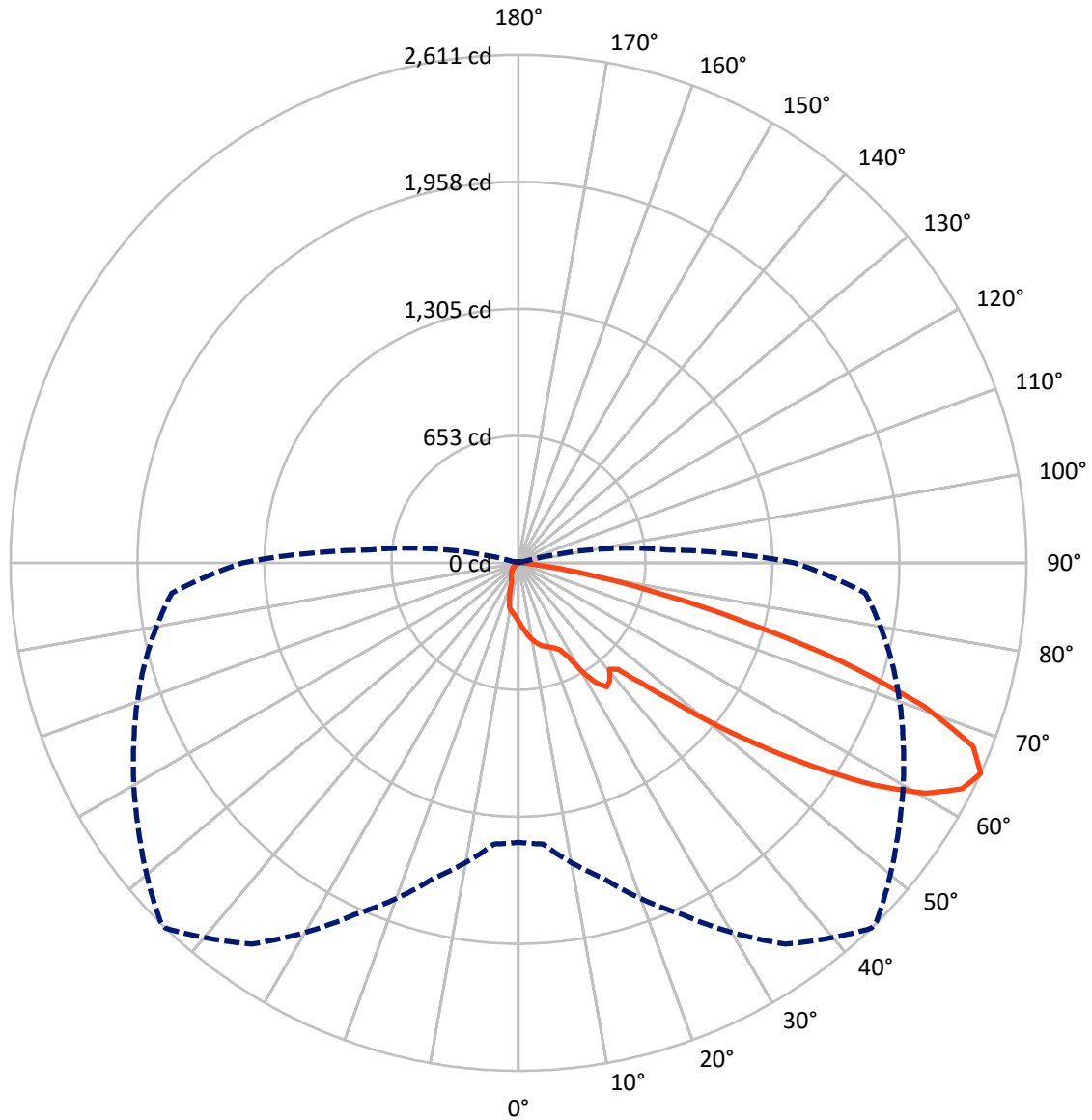
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc  
 Type III - Short - N/A

REPORT NUMBER: P648241  
CATALOG NUMBER: GALN-SA1B-835-U-T4W-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P648241  
 CATALOG NUMBER: GALN-SA1B-835-U-T4W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	300.5	0.0	300.5
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	2960.7	0.0	2960.7
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	3261.2	0.0	3261.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.2	0.9
10°-20°	90.9	2.8
20°-30°	154.1	4.7
30°-40°	256.2	7.9
40°-50°	447.2	13.7
50°-60°	873.8	26.8
60°-70°	1013.8	31.1
70°-80°	369.2	11.3
80°-90°	26.0	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°	3261.2	100.0
0°-180°	3261.2	100.0

**Coefficient of Utilization**



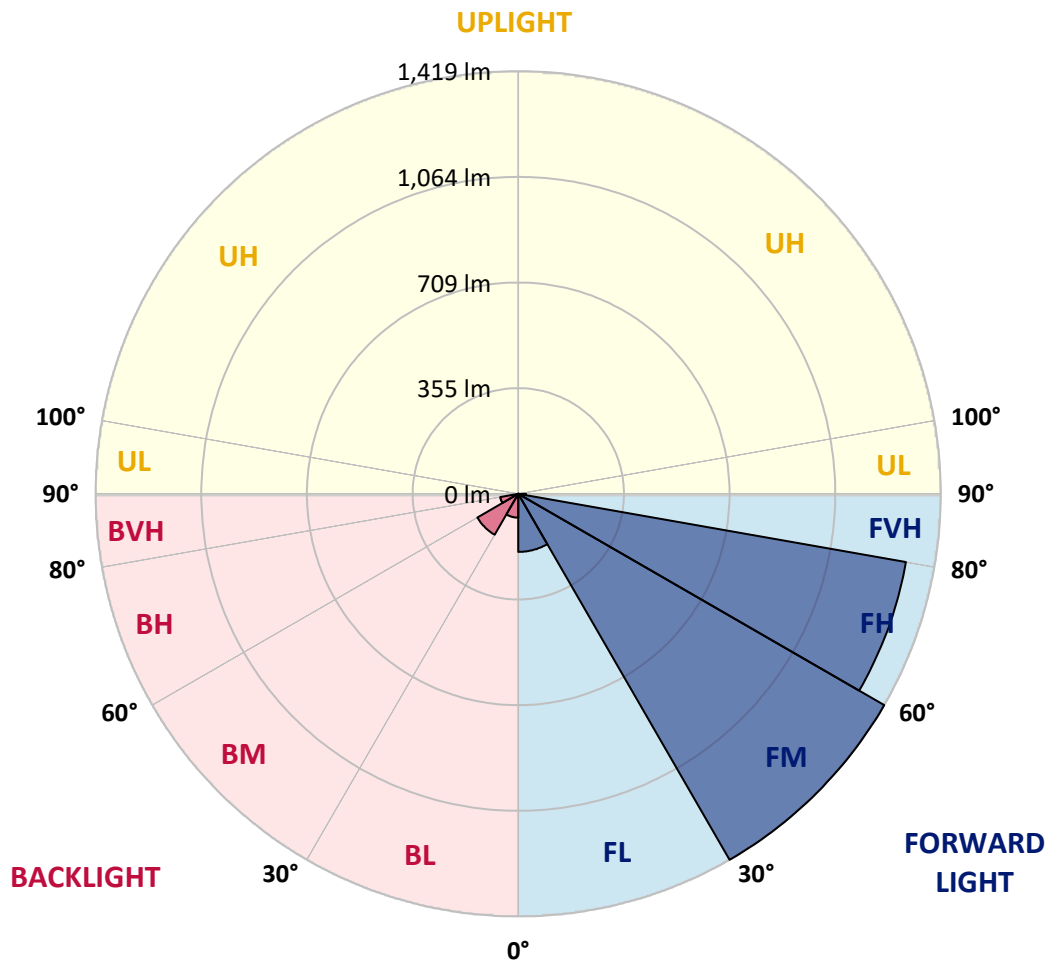
REPORT NUMBER: P648241  
 CATALOG NUMBER: GALN-SA1B-835-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	195.1	6.0			
FM (30°-60°)	1418.6	43.5			
FH (60°-80°)	1321.4	40.5			G1/1800
FVH (80°-90°)	25.7	0.8			G1/100
BL (0°-30°)	80.1	2.5	B0/110		
BM (30°-60°)	158.5	4.9	B0/220		
BH (60°-80°)	61.5	1.9	B0/110		G0/110
BVH (80°-90°)	0.4	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





REPORT NUMBER: P648241

CATALOG NUMBER: GALN-SA1B-835-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	303.5	303.5	303.5	303.5	303.5	303.5	303.5	303.5	303.5	303.5	303.5
2.5°	341.6	340.1	339.4	335.4	332.5	328.7	328.7	323.9	318.4	312.5	307.0
5°	379.8	377.2	374.0	370.5	363.5	353.6	353.6	343.7	332.1	322.0	310.8
7.5°	416.4	414.1	408.6	401.9	390.5	380.0	379.3	364.8	351.1	335.7	319.7
10°	448.6	446.8	442.1	429.1	417.2	403.5	403.2	387.0	371.1	352.1	332.5
12.5°	471.0	471.2	465.0	452.6	437.1	424.2	423.1	407.2	390.5	370.0	345.9
15°	486.9	486.9	480.4	466.5	452.6	441.1	440.0	426.1	409.0	386.7	360.6
17.5°	491.4	492.9	485.9	473.5	462.3	452.3	452.0	440.4	426.7	405.2	375.5
20°	489.7	491.2	485.7	476.0	468.2	462.5	461.7	457.0	444.4	424.2	391.5
22.5°	485.9	487.4	483.4	477.7	473.9	475.8	474.5	478.5	471.8	447.3	410.4
25°	486.7	488.2	485.1	481.9	485.1	495.9	499.2	516.3	510.4	476.7	430.9
27.5°	510.1	513.1	508.9	510.4	521.8	546.8	553.0	582.6	556.2	514.1	462.8
30°	562.2	560.2	552.2	559.5	599.3	652.2	650.4	645.7	604.3	557.2	500.7
32.5°	609.6	607.8	607.3	638.5	710.7	736.4	735.2	689.3	647.4	606.5	538.0
35°	628.7	622.0	620.5	696.0	816.8	783.0	775.2	707.2	699.8	660.4	576.1
37.5°	686.5	681.8	658.7	705.5	774.5	763.3	757.3	738.1	755.6	708.0	619.3
40°	805.6	792.5	771.5	725.7	714.4	719.2	725.1	777.8	821.6	773.0	676.8
42.5°	953.7	950.7	911.8	826.3	742.4	748.9	756.5	860.4	916.6	870.9	770.8
45°	1131.4	1135.6	1079.5	978.6	868.4	873.9	885.1	982.6	1045.1	1023.2	918.5
47.5°	1292.8	1289.6	1270.7	1165.7	1064.1	1051.9	1070.0	1139.3	1223.0	1226.6	1101.9
50°	1455.3	1472.5	1444.3	1403.2	1327.7	1302.1	1295.3	1329.2	1456.8	1440.1	1322.3
52.5°	1688.8	1697.8	1644.9	1634.4	1651.7	1568.4	1561.7	1569.9	1684.1	1626.8	1487.2
55°	1835.6	1830.3	1810.7	1892.4	1960.4	1856.5	1848.0	1814.9	1872.7	1758.5	1645.9
57.5°	1881.9	1889.4	1935.3	2083.0	2244.0	2155.8	2140.3	2046.1	2008.8	1881.4	1792.0
60°	1861.3	1875.0	1973.9	2193.7	2417.0	2403.7	2390.5	2232.3	2106.4	1984.1	1894.4
62.5°	1714.0	1733.2	1891.4	2174.0	2475.5	2558.0	2541.5	2348.5	2171.5	2033.9	1912.3
65°	1436.3	1450.6	1677.8	1995.3	2392.3	2610.8	2604.8	2384.8	2181.7	1988.4	1789.5
67.5°	1023.9	1072.3	1282.9	1681.6	2146.0	2520.6	2530.8	2341.2	2085.8	1791.2	1482.0
70°	643.7	676.6	827.6	1203.9	1720.4	2211.3	2245.0	2141.6	1810.1	1396.2	992.1
72.5°	307.0	331.4	439.1	762.0	1214.4	1739.9	1766.5	1758.1	1399.8	879.6	511.8
75°	136.8	146.0	209.6	389.0	783.9	1169.5	1238.5	1250.0	874.7	430.3	199.1
77.5°	69.8	70.0	98.2	188.4	391.5	697.7	711.4	751.6	474.2	189.6	69.3
80°	37.1	39.6	52.1	88.9	203.1	343.7	341.9	375.8	210.3	92.9	23.2
82.5°	16.7	18.5	29.4	46.6	99.2	130.3	140.5	153.8	90.2	59.3	10.2
85°	5.0	6.0	14.5	23.4	35.9	37.7	42.1	54.3	51.1	42.1	5.2
87.5°	0.8	0.8	6.0	6.5	5.2	6.7	7.0	7.8	16.4	15.4	2.7
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: P648241

CATALOG NUMBER: GALN-SA1B-835-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	303.5	303.5	303.5	303.5	303.5	303.5	303.5	303.5	303.5	303.5	303.5
2.5°	304.0	302.2	296.1	290.8	286.3	283.6	280.3	278.4	277.3	276.6	276.9
5°	305.3	301.1	290.3	281.8	275.4	268.4	263.6	260.9	259.6	257.7	257.7
7.5°	312.3	305.5	290.6	277.6	266.4	256.9	248.0	244.7	242.5	241.9	241.5
10°	322.2	313.7	293.3	275.4	259.4	246.5	233.7	222.5	213.8	208.6	207.8
12.5°	334.7	322.4	297.5	273.9	253.5	230.5	196.8	174.2	158.9	154.3	155.0
15°	346.2	332.9	301.8	272.6	242.5	191.1	153.0	127.1	119.3	118.6	118.9
17.5°	359.9	344.1	306.8	270.8	212.3	146.0	113.6	106.6	108.1	110.6	110.4
20°	374.0	356.1	312.7	260.4	169.4	109.9	100.5	101.2	103.4	105.6	106.2
22.5°	389.2	369.8	319.7	235.2	129.4	95.7	95.2	96.2	98.4	100.9	101.4
25°	410.2	387.0	324.9	202.3	98.0	88.5	89.5	91.2	93.2	95.9	96.5
27.5°	437.1	410.2	327.7	159.5	84.7	82.0	82.2	84.7	87.2	89.7	89.7
30°	472.0	437.9	322.2	120.6	78.2	75.8	74.8	76.3	79.5	82.0	82.2
32.5°	503.2	464.0	307.7	92.2	73.5	70.0	67.5	67.8	69.1	70.5	70.8
35°	534.2	489.5	283.1	77.5	68.5	64.5	60.8	58.8	57.8	57.1	57.8
37.5°	574.2	521.1	250.2	70.5	64.3	59.3	54.1	49.9	46.4	44.1	44.6
40°	625.5	564.9	211.3	66.0	60.3	54.3	47.4	41.9	35.9	33.9	32.9
42.5°	710.2	631.5	170.5	62.3	56.3	49.1	40.4	32.9	27.4	25.4	25.9
45°	844.0	715.4	131.3	58.3	52.3	43.4	33.9	25.9	21.5	20.4	20.9
47.5°	1021.4	824.1	101.2	53.8	47.4	37.1	26.7	20.4	17.7	17.5	17.2
50°	1188.4	925.3	84.5	48.9	41.3	30.9	21.9	17.2	15.4	15.2	15.2
52.5°	1339.4	997.8	68.7	43.1	34.9	25.4	18.5	15.2	13.7	12.9	12.9
55°	1473.8	1045.1	55.8	36.1	27.4	20.2	16.0	13.7	12.0	11.0	10.7
57.5°	1575.2	1050.9	41.9	28.9	20.4	15.7	13.7	12.0	9.9	8.7	8.2
60°	1618.5	1001.3	30.9	21.9	15.2	12.4	11.0	9.7	7.4	6.3	6.0
62.5°	1574.9	904.8	22.9	16.7	11.7	9.2	7.8	7.2	5.2	3.8	3.5
65°	1418.6	765.5	18.2	12.7	8.7	6.7	5.0	4.7	3.2	1.7	1.5
67.5°	1136.6	599.5	14.5	9.5	6.3	4.5	3.2	3.0	1.7	0.5	0.5
70°	739.2	383.3	11.7	7.0	4.0	3.0	2.0	1.5	1.0	0.2	0.0
72.5°	365.6	179.2	9.5	5.5	2.7	1.5	0.8	0.5	0.8	0.0	0.0
75°	141.8	63.8	7.0	3.8	1.5	0.8	0.5	0.0	0.2	0.0	0.0
77.5°	47.1	21.2	4.2	2.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0
80°	17.5	8.2	2.3	1.3	0.5	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	7.0	3.2	1.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.5	2.0	1.0	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	1.5	1.0	0.8	0.5	0.2	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)