

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: P652166

Luminaire Tested: **GALN-SA1B-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3962.8 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

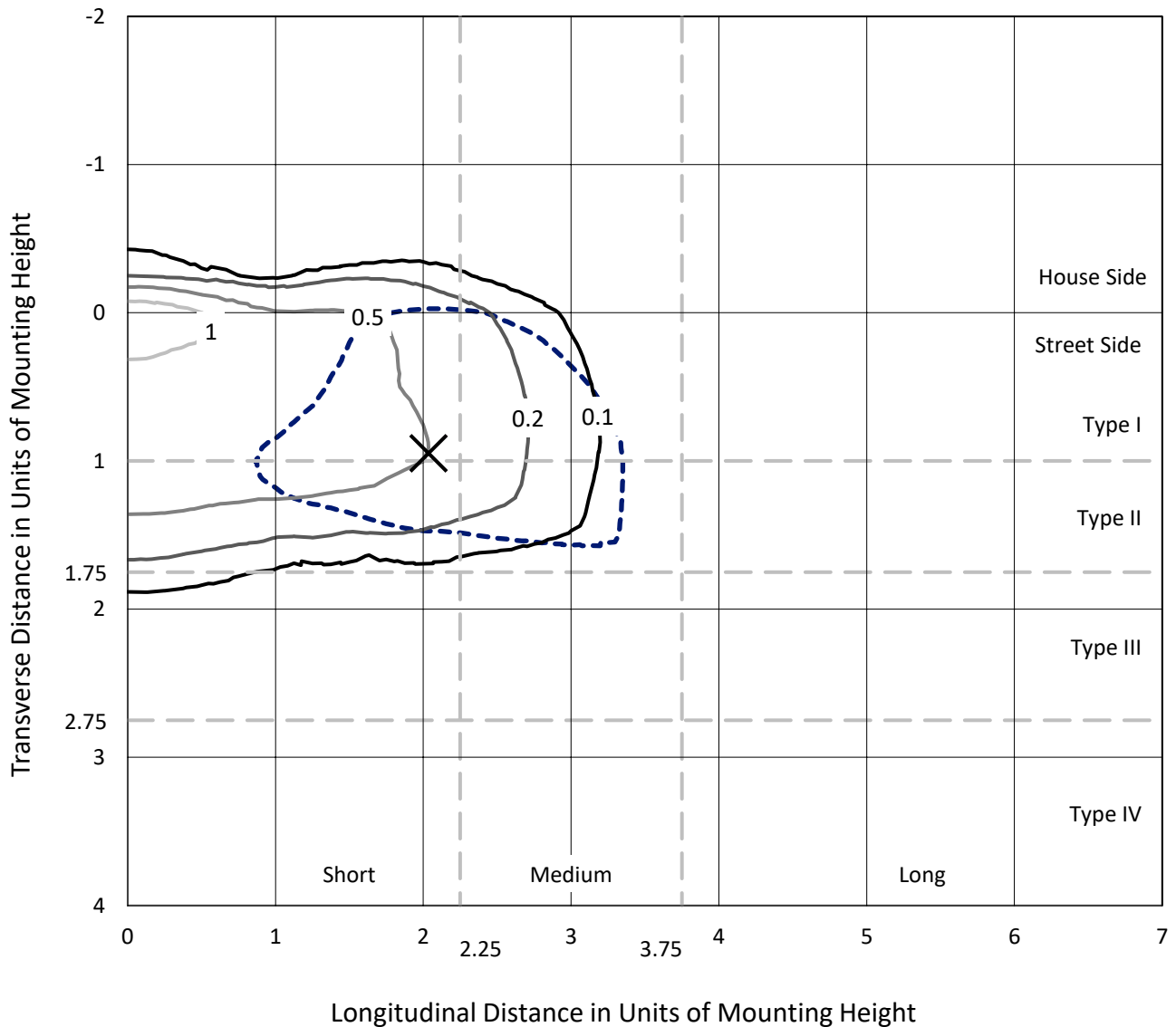
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

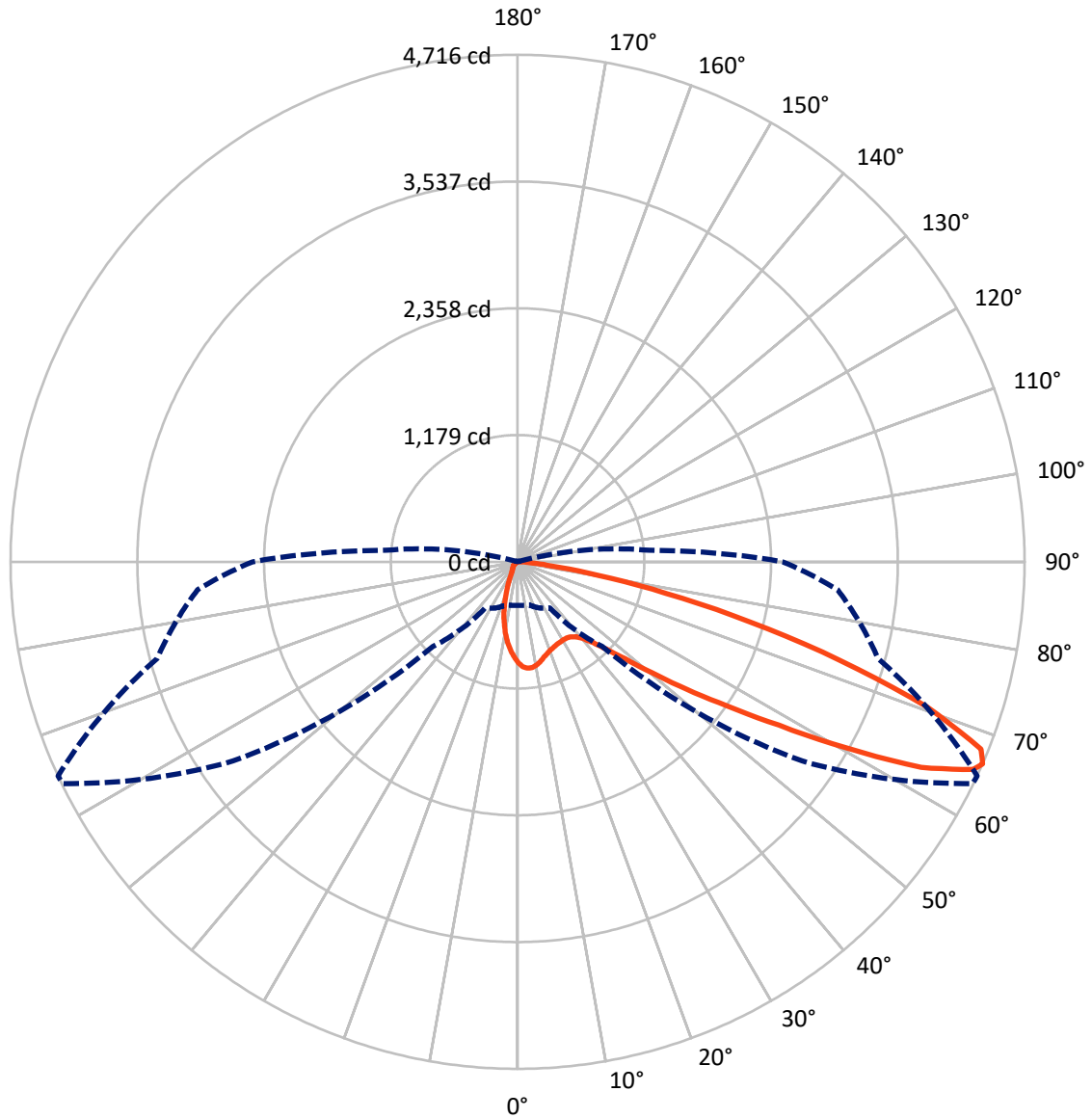
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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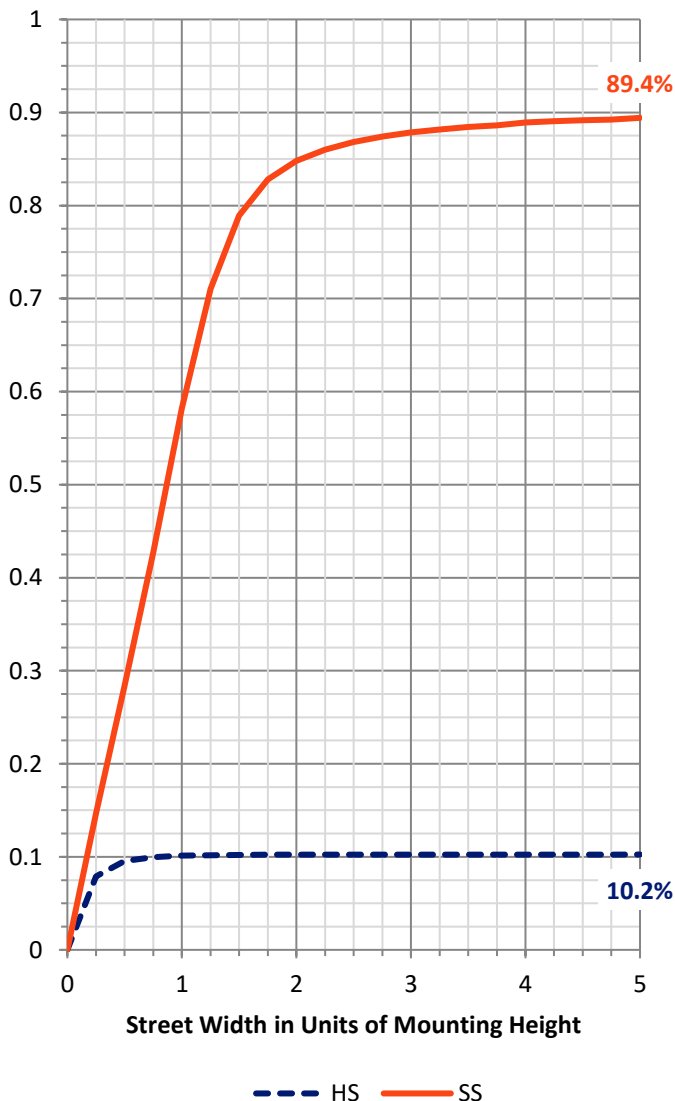
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	409.8	0.0	409.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	3553.0	0.0	3553.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	3962.8	0.0	3962.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	1.9
10°-20°	167.5	4.2
20°-30°	239.9	6.1
30°-40°	350.4	8.8
40°-50°	587.5	14.8
50°-60°	980.4	24.7
60°-70°	1040.7	26.3
70°-80°	471.3	11.9
80°-90°	48.2	1.2
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°	3962.8	100.0
0°-180°	3962.8	100.0

Coefficient of Utilization

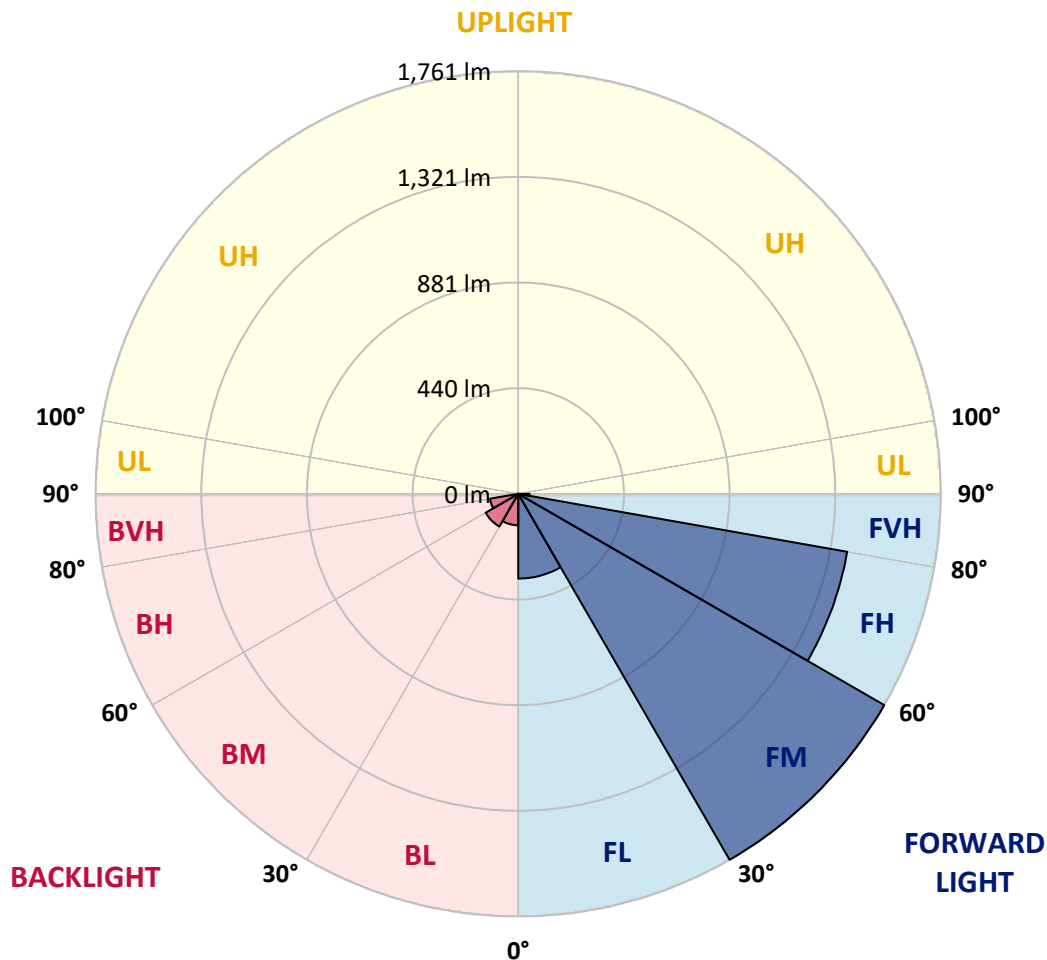


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	353.1	8.9			
FM (30°-60°)	1761.2	44.4			
FH (60°-80°)	1392.0	35.1			G1/1800
FVH (80°-90°)	46.7	1.2			G1/100
BL (0°-30°)	131.1	3.3	B1/500		
BM (30°-60°)	157.2	4.0	B0/220		
BH (60°-80°)	120.0	3.0	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	939.7	939.7	939.7	939.7	939.7	939.7	939.7	939.7	939.7	939.7	939.7
2.5°	990.3	991.4	992.7	994.6	995.9	991.9	986.3	979.8	978.5	964.9	948.3
5°	937.3	938.9	950.7	957.1	971.6	984.7	993.0	994.1	993.6	980.7	954.2
7.5°	861.9	866.4	877.9	889.1	916.2	941.1	970.5	991.1	992.5	988.9	956.0
10°	800.5	803.5	809.4	831.6	854.0	892.0	933.3	972.1	975.3	989.3	954.5
12.5°	752.6	756.9	764.1	781.3	808.3	844.2	891.0	943.2	949.9	984.1	949.9
15°	719.1	721.3	728.6	745.4	771.6	804.8	852.2	913.0	918.9	977.5	949.1
17.5°	703.4	705.8	710.9	724.3	746.0	776.7	823.0	888.6	896.1	973.2	952.0
20°	707.7	709.8	710.1	717.0	731.8	757.7	801.6	865.9	875.5	970.5	956.9
22.5°	732.0	732.3	729.1	725.9	731.0	749.7	788.5	851.4	861.3	970.0	962.4
25°	768.4	769.3	763.9	752.6	742.4	752.1	785.6	842.0	850.8	968.7	966.0
27.5°	818.7	818.5	816.9	798.1	769.3	762.8	787.9	837.0	844.4	964.9	967.3
30°	889.1	887.0	883.6	862.4	818.2	788.8	798.1	833.8	840.7	959.5	963.8
32.5°	958.5	966.5	966.0	945.9	890.7	835.1	819.3	838.1	843.1	956.0	958.7
35°	1039.3	1039.1	1059.7	1052.2	987.7	894.2	855.4	852.2	856.2	958.5	956.3
37.5°	1114.2	1121.2	1153.3	1161.1	1102.2	977.7	906.5	882.7	884.1	974.8	962.2
40°	1207.7	1221.0	1268.9	1294.9	1243.0	1101.6	982.0	938.6	938.9	1014.9	984.4
42.5°	1328.1	1349.2	1394.0	1437.3	1409.4	1248.3	1095.2	1027.3	1026.7	1085.6	1035.3
45°	1474.5	1489.2	1540.0	1608.8	1591.2	1453.1	1260.1	1164.5	1157.6	1201.5	1125.5
47.5°	1600.8	1620.9	1672.6	1751.0	1831.3	1703.0	1457.1	1353.3	1348.7	1385.9	1280.2
50°	1655.9	1673.6	1727.9	1837.9	2032.5	2031.2	1750.5	1628.7	1620.9	1641.0	1519.4
52.5°	1595.5	1612.0	1666.9	1803.9	2127.3	2431.1	2175.5	1974.2	1964.8	1939.1	1805.3
55°	1388.3	1401.9	1483.0	1640.5	2090.9	2697.7	2761.1	2401.1	2364.7	2264.9	2128.9
57.5°	1105.4	1098.4	1148.7	1331.6	1877.3	2787.1	3362.2	2932.9	2867.9	2546.5	2402.7
60°	766.0	787.4	807.8	928.2	1411.6	2632.1	3736.1	3601.5	3515.9	2823.5	2665.0
62.5°	563.1	577.3	590.7	646.4	887.5	2101.6	3802.2	4288.3	4212.3	3117.6	2915.2
65°	445.4	446.4	451.8	506.7	584.8	1366.6	3484.5	4675.6	4656.0	3400.8	3016.7
66°	405.8	406.0	414.4	473.2	524.9	1112.9	3230.0	4705.1	4715.7	3468.8	2987.0
67.5°	354.6	353.6	365.6	425.3	478.0	802.4	2774.5	4585.6	4649.1	3520.9	2880.2
70°	274.8	273.6	288.3	356.8	440.3	535.3	1844.1	3937.4	4039.7	3414.1	2548.3
72.5°	183.1	184.2	209.3	281.6	420.2	471.3	1109.4	2995.3	3139.8	2819.5	2004.7
75°	106.8	108.7	137.3	209.3	364.8	449.3	627.9	2135.9	2228.2	1946.9	1248.9
77.5°	55.9	56.8	76.8	138.1	279.7	417.3	418.3	1364.5	1407.8	946.1	494.3
80°	29.7	28.9	41.2	83.3	192.4	366.4	339.3	722.4	751.0	281.1	125.0
82.5°	11.3	12.3	22.0	54.6	113.8	263.1	292.2	319.3	309.4	61.8	52.5
85°	2.1	2.7	9.3	32.4	57.3	110.0	215.5	156.6	145.1	23.3	30.3
87.5°	0.3	0.5	2.7	7.7	8.3	37.2	63.7	43.4	37.5	8.6	12.6
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°	939.7	939.7	939.7	939.7	939.7	939.7	939.7	939.7	939.7	939.7	939.7
2.5°	940.2	933.0	909.0	885.2	860.8	838.8	823.8	799.5	793.3	784.5	779.4
5°	938.4	921.5	875.2	824.6	777.5	726.7	687.9	650.4	630.3	620.2	616.4
7.5°	933.0	906.3	834.0	754.8	679.3	603.2	537.1	486.9	454.5	432.3	417.3
10°	922.3	885.4	786.1	677.2	563.1	462.8	379.0	315.3	266.0	250.5	251.0
12.5°	911.4	862.1	732.6	591.0	449.7	323.0	234.2	183.8	160.3	152.6	151.0
15°	901.2	839.9	680.1	507.5	334.8	209.3	151.0	133.3	126.9	125.6	125.2
17.5°	895.8	819.3	624.2	411.9	233.6	142.1	121.0	116.1	114.3	112.9	112.4
20°	891.3	801.4	570.6	322.5	159.8	116.4	108.4	103.9	100.7	99.3	98.5
22.5°	888.1	782.9	515.2	249.7	122.3	103.3	96.1	90.2	85.6	84.0	83.0
25°	883.2	762.5	459.3	182.5	103.0	91.8	83.5	76.5	70.6	67.7	67.2
27.5°	876.3	739.5	398.0	135.1	92.1	81.7	71.5	62.9	57.0	53.8	54.1
30°	865.1	715.4	336.7	107.3	83.3	71.2	60.2	51.9	46.3	43.9	43.6
32.5°	851.7	686.3	280.5	92.1	75.2	61.8	50.3	43.1	38.8	36.9	36.7
35°	839.1	656.8	223.2	82.7	66.9	53.2	42.3	36.2	32.9	31.3	31.6
37.5°	832.2	630.6	174.0	75.2	60.2	45.8	36.4	31.0	28.1	26.7	26.5
40°	836.7	609.1	138.3	68.5	52.7	39.4	31.3	26.7	23.8	22.0	22.0
42.5°	858.1	599.8	111.6	62.1	45.8	34.0	27.3	23.0	19.8	17.9	18.2
45°	923.4	609.7	93.4	56.2	39.4	29.4	23.5	19.0	16.1	14.7	14.5
47.5°	1031.8	646.9	80.8	50.0	33.7	25.1	19.8	15.8	12.9	11.8	11.5
50°	1221.3	723.8	71.5	43.9	28.7	21.4	16.3	12.6	10.2	9.1	9.1
52.5°	1482.0	891.3	64.8	36.9	24.1	18.2	13.4	10.2	8.0	7.2	7.0
55°	1754.5	1067.9	61.3	31.0	20.1	15.0	10.7	8.0	6.1	5.4	5.0
57.5°	2016.5	1206.6	57.3	25.1	16.1	11.5	8.3	6.1	4.3	3.8	3.4
60°	2267.8	1318.7	48.7	20.1	12.6	8.3	6.1	4.3	2.9	2.4	2.4
62.5°	2492.6	1384.0	38.3	16.1	9.7	5.9	4.0	3.2	2.1	1.6	1.6
65°	2518.9	1299.2	28.9	12.3	7.0	3.8	2.4	2.4	1.6	1.1	1.1
66°	2466.1	1227.2	25.4	11.3	6.1	3.2	2.1	1.9	1.3	0.8	0.8
67.5°	2348.4	1104.3	22.0	9.7	5.0	2.4	1.6	1.6	1.1	0.5	0.5
70°	2029.1	902.0	17.4	7.2	3.8	1.9	1.1	1.1	0.8	0.5	0.5
72.5°	1546.5	673.4	14.2	5.4	2.7	1.3	0.8	0.8	0.8	0.5	0.5
75°	932.8	362.6	10.9	4.0	2.4	1.1	0.5	0.8	1.1	0.8	0.5
77.5°	343.6	123.4	8.6	3.2	1.9	1.1	0.5	0.5	1.1	0.8	0.8
80°	84.3	32.1	6.1	2.7	1.9	1.1	0.5	0.5	1.1	1.1	1.1
82.5°	39.1	13.6	4.3	2.4	1.9	1.1	0.5	0.5	0.8	1.1	1.1
85°	22.5	6.4	3.4	2.7	1.9	1.1	0.5	0.5	0.8	1.1	1.1
87.5°	9.1	3.2	3.2	2.7	2.1	1.3	0.5	0.5	0.5	0.8	0.8
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)