

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: P450317

Luminaire Tested: **GALN-SA1A-760-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-760-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4529 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

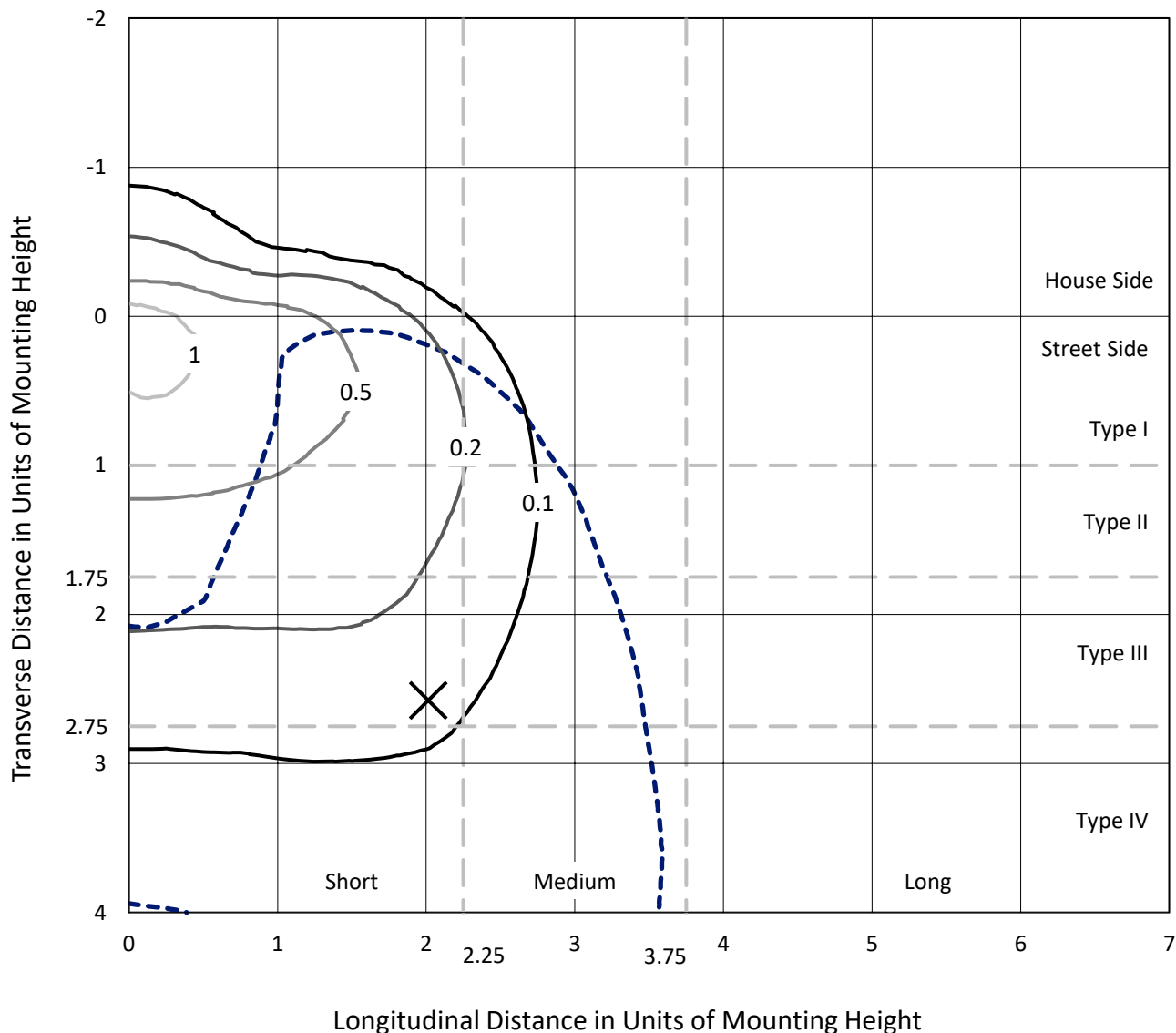
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

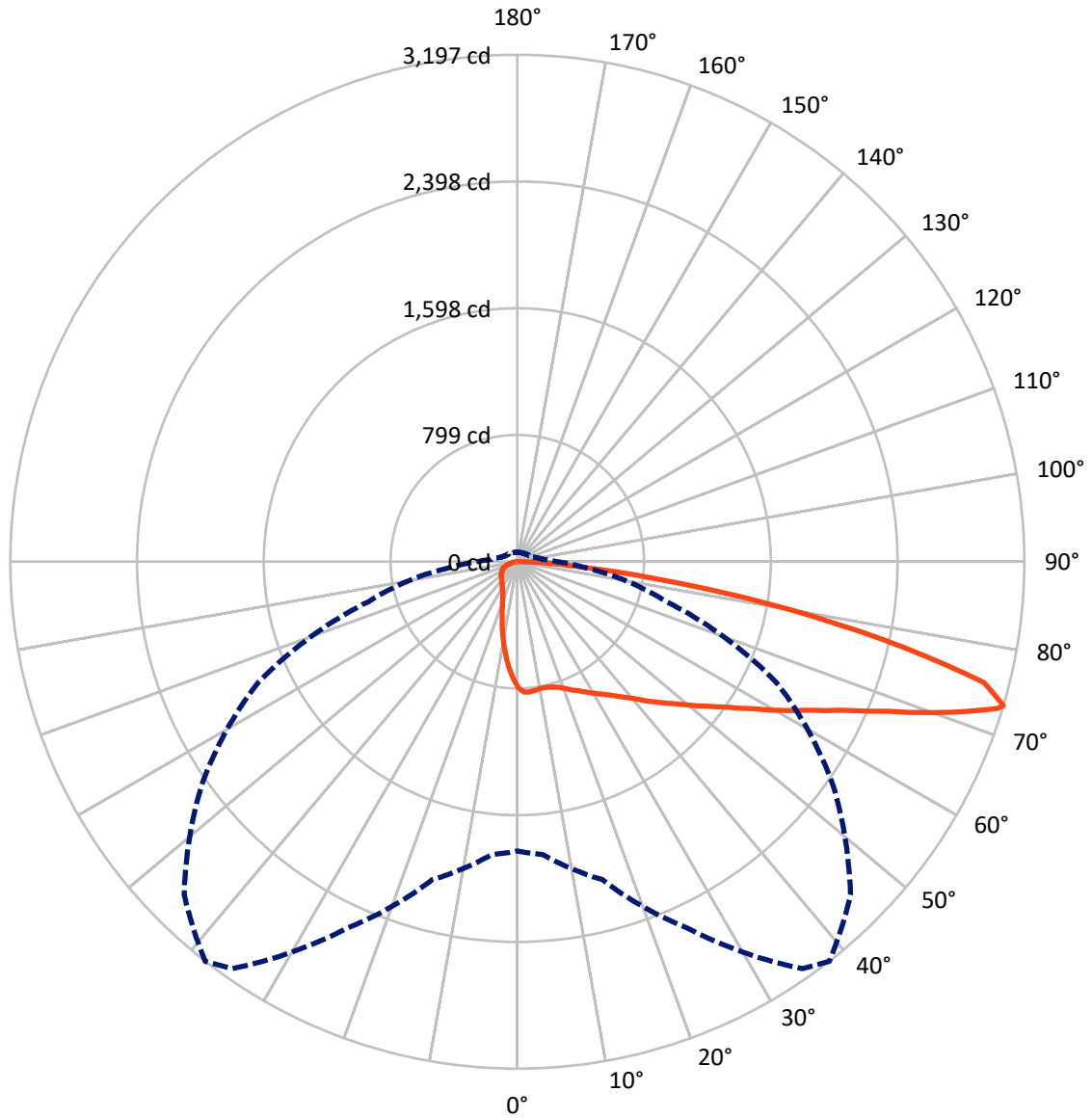
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	608.8	0.0	608.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	3920.2	0.0	3920.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	4529.0	0.0	4529.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	1.5
10°-20°	178.1	3.9
20°-30°	277.3	6.1
30°-40°	406.8	9.0
40°-50°	603.4	13.3
50°-60°	854.9	18.9
60°-70°	1084.5	23.9
70°-80°	902.8	19.9
80°-90°	151.7	3.3
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°	4529.0	100.0
0°-180°	4529.0	100.0

Coefficient of Utilization



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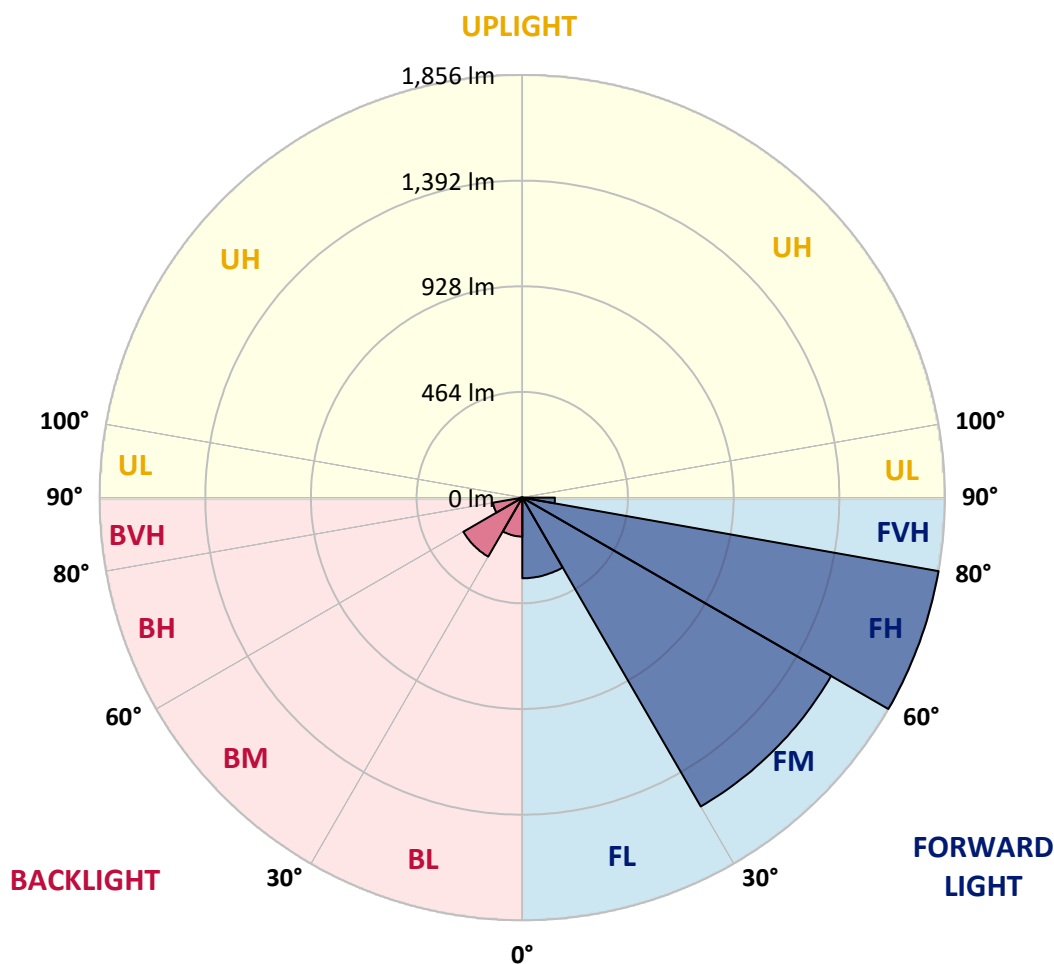
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	354.0	7.8			
FM (30°-60°)	1566.2	34.6			
FH (60°-80°)	1856.4	41.0			G2/5000
FVH (80°-90°)	143.5	3.2			G2/225
BL (0°-30°)	170.8	3.8	B1/500		
BM (30°-60°)	298.9	6.6	B1/1000		
BH (60°-80°)	130.9	2.9	B1/500		G1/500
BVH (80°-90°)	8.2	0.2			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	795.7	795.7	795.7	795.7	795.7	795.7	795.7	795.7	795.7	795.7	795.7
2.5°	827.6	831.7	829.7	826.9	825.1	823.3	820.7	813.3	807.4	801.0	791.1
5°	833.8	836.3	834.5	831.0	826.9	825.1	820.2	810.5	801.0	790.3	775.5
7.5°	830.2	831.2	829.2	824.8	821.2	817.9	812.3	801.6	790.0	777.0	757.6
10°	817.4	821.2	821.2	817.7	814.1	812.3	806.7	796.4	785.9	771.1	748.1
12.5°	806.9	811.0	814.3	813.3	813.1	813.1	808.7	801.0	788.8	774.7	747.3
15°	799.8	804.6	811.8	815.9	818.4	819.2	817.4	810.8	798.2	781.9	750.4
17.5°	798.2	804.1	817.2	826.1	832.8	832.5	832.0	822.8	809.0	792.1	754.2
20°	805.1	812.8	831.0	845.0	854.7	853.0	850.1	838.1	822.0	803.1	757.8
22.5°	825.8	833.8	853.7	869.1	878.5	878.5	870.1	854.2	837.1	815.9	762.7
25°	855.5	864.2	885.4	901.0	905.4	902.1	893.6	874.4	854.7	834.3	772.9
27.5°	891.8	902.3	922.0	935.1	933.8	931.2	922.5	898.0	878.3	859.6	790.3
30°	937.1	944.8	965.2	968.3	963.7	963.2	950.9	926.4	907.9	893.6	815.1
32.5°	979.8	986.7	1003.1	1004.4	996.2	997.2	985.7	963.2	952.7	947.6	856.8
35°	1025.1	1028.7	1042.7	1041.2	1035.8	1035.1	1030.5	1009.0	1012.3	1021.5	915.9
37.5°	1062.9	1070.1	1078.0	1079.3	1079.1	1081.6	1084.7	1074.4	1093.6	1122.5	993.4
40°	1097.7	1103.9	1115.6	1119.7	1129.7	1134.8	1145.3	1145.5	1189.8	1237.4	1088.8
42.5°	1121.3	1131.7	1153.7	1161.1	1185.4	1200.8	1216.4	1233.0	1297.2	1358.3	1201.3
45°	1141.7	1155.5	1192.1	1215.1	1248.1	1266.8	1299.8	1334.6	1426.9	1506.9	1315.6
47.5°	1172.7	1184.9	1226.9	1267.5	1317.4	1338.9	1388.3	1440.2	1560.9	1648.6	1425.1
50°	1215.6	1223.0	1265.8	1332.0	1395.7	1423.3	1488.5	1563.5	1704.1	1788.5	1521.3
52.5°	1270.6	1273.7	1307.7	1395.9	1479.8	1514.1	1600.5	1688.0	1829.4	1910.0	1597.5
55°	1335.6	1330.5	1357.1	1463.7	1576.0	1620.7	1713.6	1814.1	1970.4	2008.2	1653.0
57.5°	1399.8	1391.8	1413.1	1546.1	1694.7	1748.6	1856.8	1944.0	2096.2	2100.0	1691.9
60°	1467.8	1461.9	1487.2	1642.7	1840.2	1904.1	2004.1	2078.8	2217.9	2164.0	1698.0
62.5°	1537.6	1528.2	1564.2	1751.4	2004.1	2062.2	2159.1	2222.0	2337.4	2187.8	1638.9
65°	1605.4	1601.1	1656.8	1880.6	2190.8	2256.8	2350.9	2393.7	2433.0	2152.0	1492.4
67.5°	1677.5	1686.2	1775.2	2053.0	2434.3	2517.2	2618.7	2578.6	2460.4	1982.4	1256.8
70°	1787.5	1793.1	1930.7	2278.8	2748.1	2848.1	2897.2	2644.3	2328.4	1660.4	944.8
72.5°	1834.8	1859.6	2069.6	2515.9	3104.7	3165.8	2990.9	2497.7	1939.7	1127.9	496.4
73°	1824.3	1854.0	2076.0	2552.0	3132.5	3196.7	2970.9	2422.3	1803.1	971.4	425.6
75°	1693.6	1730.2	1992.9	2521.8	3078.3	3040.0	2650.2	2064.5	1218.4	441.7	193.9
77.5°	1336.3	1346.8	1579.1	2036.4	2424.1	2353.0	1983.4	1290.3	497.7	164.2	110.0
80°	670.3	709.0	890.0	1166.5	1621.0	1597.7	1251.9	610.2	207.4	96.4	72.9
82.5°	322.5	349.9	433.5	568.8	895.7	874.4	620.0	333.5	131.7	56.3	43.0
85°	207.7	228.1	276.0	271.4	368.3	351.7	278.5	252.4	78.0	29.4	29.9
87.5°	137.1	150.1	180.1	144.0	134.0	121.2	123.0	142.2	15.3	11.3	4.1
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°	795.7	795.7	795.7	795.7	795.7	795.7	795.7	795.7	795.7	795.7	795.7
2.5°	787.0	783.6	772.7	761.9	751.7	742.0	735.6	727.1	721.5	723.0	725.3
5°	767.3	759.9	740.4	721.5	703.6	682.4	665.2	651.4	640.9	637.1	636.3
7.5°	746.6	734.0	706.2	673.7	643.2	616.9	586.5	571.4	553.7	547.6	545.5
10°	734.0	717.2	678.0	632.7	587.0	543.2	510.2	483.4	459.1	454.5	452.2
12.5°	730.4	708.2	655.5	597.2	536.3	482.6	433.8	398.5	374.9	369.6	361.6
15°	728.4	700.8	634.5	561.4	484.2	418.7	367.3	326.1	304.6	290.3	290.5
17.5°	726.6	692.3	611.0	522.3	439.1	363.7	306.9	269.8	250.1	242.5	241.7
20°	724.1	682.4	583.9	481.1	387.7	313.6	262.2	234.5	221.2	214.8	214.6
22.5°	723.0	672.6	557.3	439.1	342.2	274.9	232.5	213.0	204.6	200.3	200.3
25°	725.6	665.7	529.4	399.2	301.8	241.9	212.0	198.7	193.9	191.6	190.8
27.5°	733.5	662.7	501.8	359.3	264.7	219.4	198.2	189.0	185.4	183.6	183.9
30°	748.6	662.4	474.7	320.0	237.1	202.3	187.2	180.8	178.0	177.0	176.7
32.5°	772.9	668.0	448.1	287.5	213.8	188.0	177.0	172.4	171.1	170.3	170.1
35°	814.1	683.9	421.7	257.8	195.9	175.2	167.3	165.0	163.2	163.9	164.2
37.5°	869.6	711.3	396.7	234.5	182.4	165.7	159.1	157.0	156.0	156.8	157.5
40°	944.0	750.7	375.7	215.9	172.6	157.8	151.9	150.1	149.1	150.4	150.6
42.5°	1026.1	796.2	358.3	201.3	164.7	151.2	145.5	143.5	142.7	143.5	143.7
45°	1110.5	849.1	349.4	190.8	158.1	146.3	140.4	138.1	136.3	135.8	136.6
47.5°	1193.6	895.2	349.1	184.4	152.7	141.9	135.6	133.0	130.7	129.4	129.2
50°	1261.4	931.7	355.3	181.6	148.1	137.1	130.7	128.1	125.1	122.5	123.0
52.5°	1312.6	955.5	358.1	180.3	145.5	132.0	125.6	123.3	119.7	116.4	116.4
55°	1345.6	961.1	351.2	179.0	143.5	126.6	119.7	117.6	114.1	110.7	110.7
57.5°	1356.8	943.8	326.3	176.0	141.4	122.0	113.8	112.0	109.2	105.9	105.4
60°	1330.7	884.9	282.9	166.8	137.3	117.1	107.4	106.7	105.6	102.8	102.6
62.5°	1230.2	760.1	235.6	154.7	130.4	112.0	101.5	102.8	103.6	102.0	101.8
65°	1062.9	617.1	201.3	138.1	121.2	104.9	95.1	98.5	100.5	100.5	100.0
67.5°	862.2	473.9	169.6	123.8	109.7	95.1	88.0	90.5	92.1	91.6	92.8
70°	612.8	321.0	138.1	107.4	95.1	84.1	78.8	78.8	77.8	77.2	77.2
72.5°	297.2	183.4	112.0	89.8	81.1	71.9	67.5	65.7	63.7	63.4	62.1
73°	248.3	164.5	106.9	86.4	77.8	70.1	65.2	62.4	61.1	60.1	59.8
75°	151.2	124.8	89.3	72.9	66.2	60.4	56.0	53.5	52.2	51.4	51.2
77.5°	99.5	93.1	69.3	55.8	50.6	47.1	45.3	42.7	41.9	40.9	40.9
80°	74.2	71.1	49.6	39.4	36.3	33.2	32.7	32.2	30.2	28.9	28.4
82.5°	47.8	50.6	33.8	26.3	23.0	20.5	20.7	21.5	19.4	17.6	17.1
85°	34.0	36.6	20.5	12.0	9.7	8.4	9.5	8.4	8.7	6.9	5.6
87.5°	5.6	9.7	3.6	1.5	0.8	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)