

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: P450747

Luminaire Tested: **GALN-SA1C-750-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450747
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-SA1C-750-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1050mA 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: 5822 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

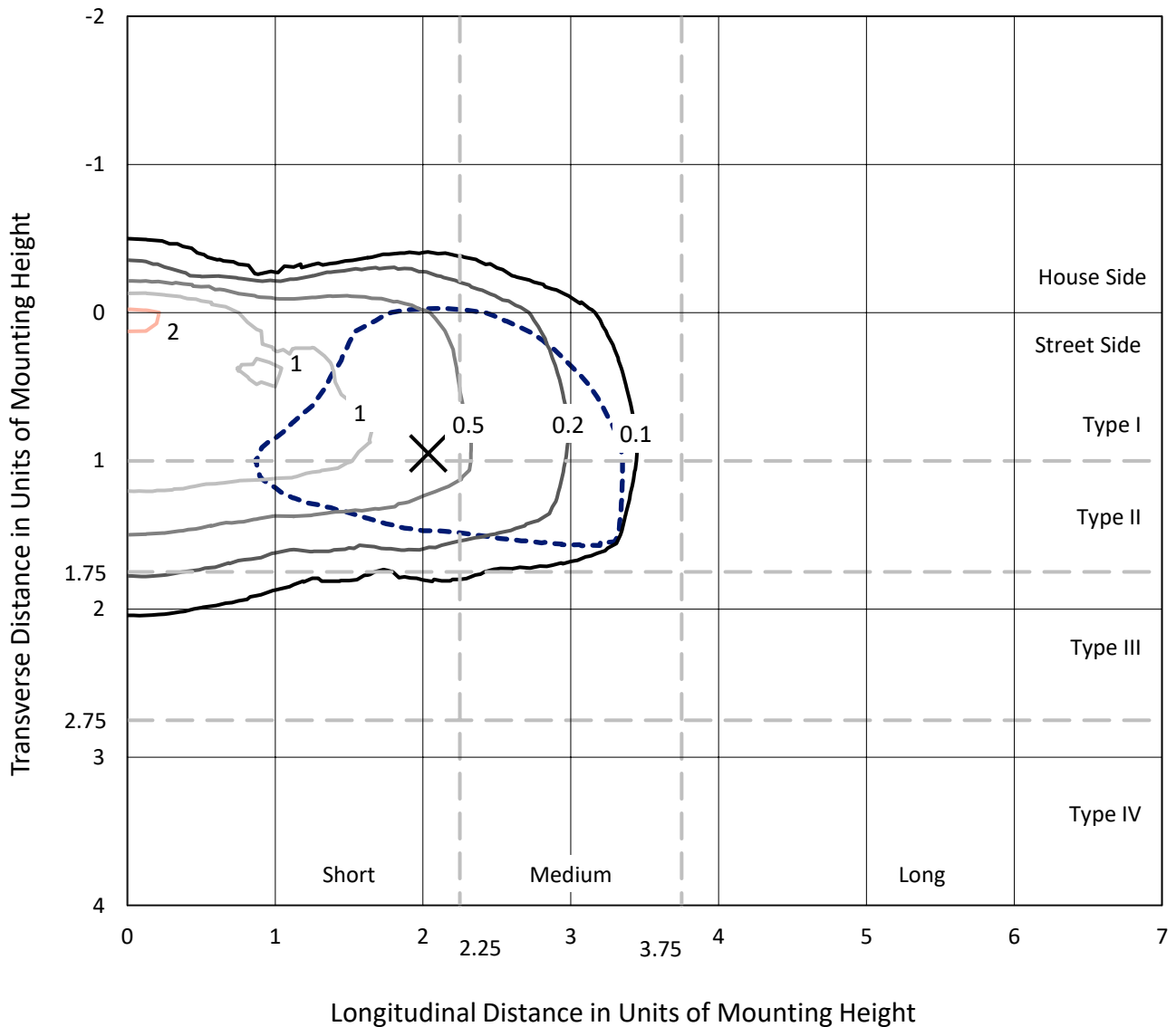
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

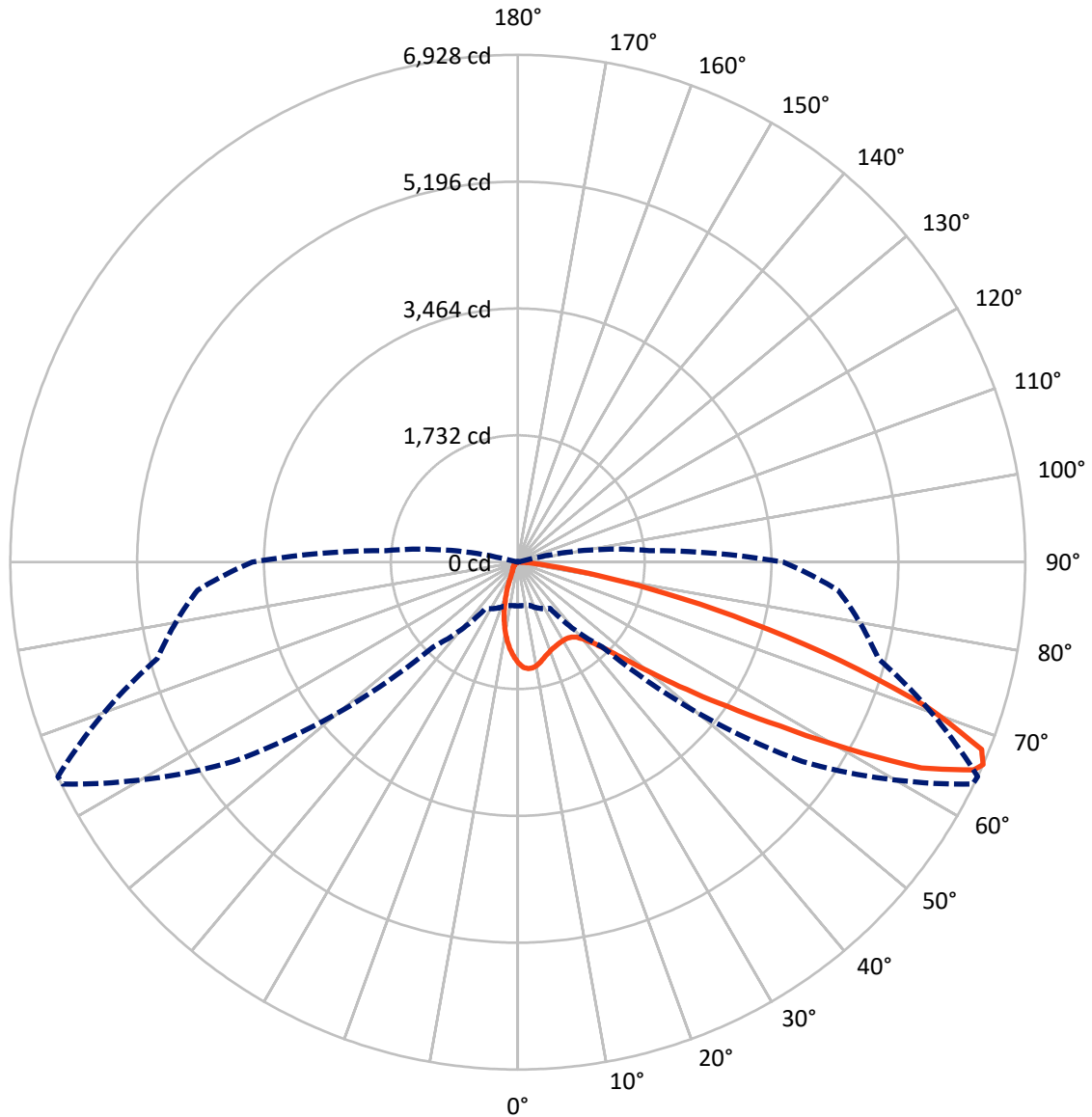
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	602.1	0.0	602.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	5219.9	0.0	5219.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	5822.0	0.0	5822.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.9	1.9
10°-20°	246.0	4.2
20°-30°	352.4	6.1
30°-40°	514.7	8.8
40°-50°	863.1	14.8
50°-60°	1440.4	24.7
60°-70°	1529.0	26.3
70°-80°	692.5	11.9
80°-90°	70.9	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°	5822.0	100.0
0°-180°	5822.0	100.0



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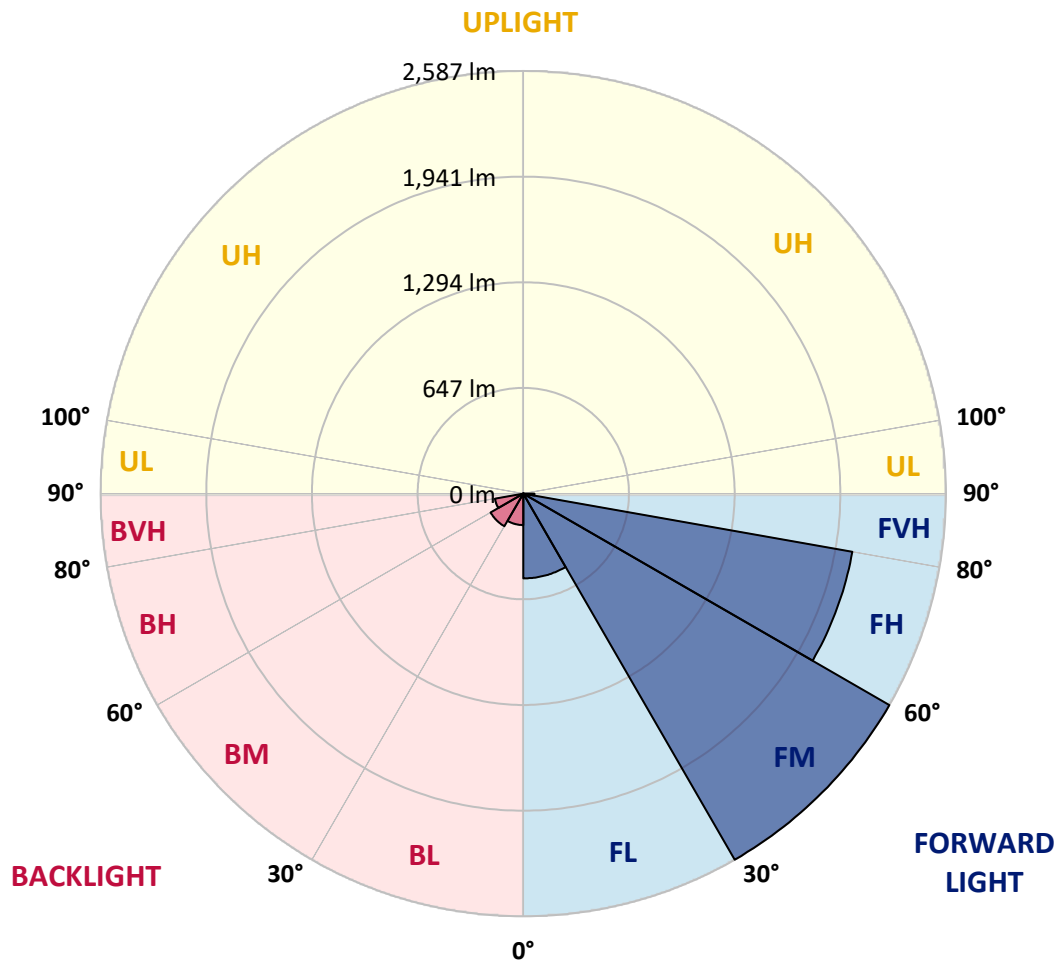
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	518.8	8.9			
FM (30°-60°)	2587.4	44.4			
FH (60°-80°)	2045.1	35.1			G2/5000
FVH (80°-90°)	68.6	1.2			G1/100
BL (0°-30°)	192.6	3.3	B1/500		
BM (30°-60°)	230.9	4.0	B1/1000		
BH (60°-80°)	176.3	3.0	B1/500		G1/500
BVH (80°-90°)	2.3	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1380.6	1380.6	1380.6	1380.6	1380.6	1380.6	1380.6	1380.6	1380.6	1380.6	1380.6
2.5°	1454.9	1456.5	1458.5	1461.2	1463.2	1457.3	1449.0	1439.6	1437.6	1417.6	1393.2
5°	1377.1	1379.4	1396.7	1406.2	1427.4	1446.7	1458.9	1460.4	1459.6	1440.8	1401.8
7.5°	1266.2	1272.9	1289.8	1306.3	1346.0	1382.6	1425.8	1456.1	1458.1	1453.0	1404.6
10°	1176.1	1180.5	1189.1	1221.7	1254.8	1310.6	1371.2	1428.2	1432.9	1453.4	1402.2
12.5°	1105.7	1112.0	1122.7	1147.8	1187.5	1240.2	1309.0	1385.7	1395.6	1445.9	1395.6
15°	1056.6	1059.7	1070.4	1095.1	1133.7	1182.4	1252.0	1341.3	1349.9	1436.1	1394.4
17.5°	1033.4	1036.9	1044.4	1064.1	1095.9	1141.1	1209.2	1305.5	1316.5	1429.8	1398.7
20°	1039.7	1042.8	1043.2	1053.4	1075.1	1113.2	1177.7	1272.1	1286.2	1425.8	1405.8
22.5°	1075.5	1075.9	1071.1	1066.4	1073.9	1101.4	1158.4	1250.8	1265.4	1425.0	1414.0
25°	1128.9	1130.1	1122.3	1105.7	1090.8	1105.0	1154.1	1237.1	1250.1	1423.1	1419.1
27.5°	1202.9	1202.5	1200.1	1172.6	1130.1	1120.7	1157.7	1229.6	1240.6	1417.6	1421.1
30°	1306.3	1303.1	1298.0	1267.0	1202.1	1158.8	1172.6	1224.9	1235.1	1409.7	1416.0
32.5°	1408.1	1419.9	1419.1	1389.7	1308.7	1226.9	1203.7	1231.2	1238.7	1404.6	1408.5
35°	1526.9	1526.5	1556.8	1545.8	1451.0	1313.8	1256.7	1252.0	1257.9	1408.1	1405.0
37.5°	1637.0	1647.2	1694.4	1705.8	1619.3	1436.4	1331.9	1296.9	1298.8	1432.1	1413.6
40°	1774.2	1793.9	1864.3	1902.4	1826.1	1618.5	1442.7	1379.0	1379.4	1491.1	1446.3
42.5°	1951.2	1982.2	2047.9	2111.6	2070.7	1834.0	1609.1	1509.2	1508.4	1594.9	1521.0
45°	2166.3	2187.9	2262.6	2363.7	2337.7	2134.8	1851.3	1710.9	1700.7	1765.2	1653.5
47.5°	2351.9	2381.4	2457.3	2572.5	2690.4	2502.1	2140.7	1988.1	1981.5	2036.1	1880.8
50°	2432.9	2458.8	2538.7	2700.3	2986.1	2984.2	2571.7	2392.8	2381.4	2410.9	2232.3
52.5°	2344.0	2368.4	2449.0	2650.3	3125.3	3571.7	3196.1	2900.4	2886.7	2848.9	2652.3
55°	2039.7	2059.7	2178.9	2410.1	3071.9	3963.3	4056.5	3527.6	3474.1	3327.5	3127.7
57.5°	1624.0	1613.8	1687.7	1956.3	2758.1	4094.6	4939.7	4309.0	4213.4	3741.1	3530.0
60°	1125.4	1156.9	1186.8	1363.7	2073.9	3867.0	5489.0	5291.2	5165.4	4148.1	3915.3
62.5°	827.3	848.2	867.8	949.6	1303.9	3087.6	5586.1	6300.2	6188.6	4580.3	4283.0
65°	654.3	655.9	663.8	744.4	859.2	2007.8	5119.4	6869.2	6840.5	4996.3	4432.0
66°	596.1	596.5	608.7	695.2	771.1	1635.0	4745.4	6912.5	6928.2	5096.2	4388.4
67.5°	521.0	519.4	537.1	624.8	702.3	1178.9	4076.2	6737.1	6830.3	5172.9	4231.5
70°	403.8	401.9	423.5	524.2	646.9	786.4	2709.3	5784.7	5934.9	5016.0	3743.9
72.5°	269.0	270.5	307.5	413.7	617.4	692.5	1629.9	4400.6	4612.9	4142.2	2945.3
75°	156.9	159.6	201.7	307.5	536.0	660.2	922.5	3137.9	3273.6	2860.3	1834.8
77.5°	82.2	83.4	112.9	202.9	410.9	613.0	614.6	2004.7	2068.4	1390.0	726.3
80°	43.6	42.5	60.6	122.3	282.7	538.3	498.6	1061.3	1103.4	412.9	183.6
82.5°	16.5	18.1	32.2	80.2	167.1	386.5	429.4	469.1	454.6	90.8	77.1
85°	3.1	3.9	13.8	47.6	84.2	161.6	316.5	230.0	213.1	34.2	44.4
87.5°	0.4	0.8	3.9	11.4	12.2	54.7	93.6	63.7	55.1	12.6	18.5
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°	1380.6	1380.6	1380.6	1380.6	1380.6	1380.6	1380.6	1380.6	1380.6	1380.6	1380.6
2.5°	1381.4	1370.8	1335.4	1300.4	1264.6	1232.4	1210.3	1174.6	1165.5	1152.5	1145.1
5°	1378.6	1353.9	1285.8	1211.5	1142.3	1067.6	1010.6	955.5	926.0	911.1	905.6
7.5°	1370.8	1331.5	1225.3	1108.9	998.0	886.3	789.2	715.3	667.7	635.1	613.0
10°	1355.1	1300.8	1154.9	994.9	827.3	679.9	556.8	463.2	390.9	368.1	368.8
12.5°	1338.9	1266.6	1076.3	868.2	660.6	474.6	344.1	270.1	235.5	224.1	221.8
15°	1324.0	1233.9	999.2	745.6	491.9	307.5	221.8	195.8	186.4	184.4	184.0
17.5°	1316.1	1203.7	917.0	605.2	343.3	208.8	177.7	170.7	167.9	165.9	165.2
20°	1309.4	1177.3	838.4	473.8	234.8	171.1	159.3	152.6	147.9	145.9	144.7
22.5°	1304.7	1150.2	757.0	366.9	179.7	151.8	141.2	132.5	125.8	123.5	121.9
25°	1297.6	1120.3	674.8	268.2	151.4	134.9	122.7	112.5	103.8	99.5	98.7
27.5°	1287.4	1086.5	584.7	198.6	135.3	119.9	105.0	92.4	83.8	79.0	79.4
30°	1270.9	1051.1	494.7	157.7	122.3	104.6	88.5	76.3	68.0	64.5	64.1
32.5°	1251.2	1008.2	412.1	135.3	110.5	90.8	73.9	63.3	57.0	54.3	53.9
35°	1232.8	965.0	327.9	121.5	98.3	78.3	62.1	53.1	48.4	46.0	46.4
37.5°	1222.5	926.4	255.6	110.5	88.5	67.2	53.5	45.6	41.3	39.3	38.9
40°	1229.2	895.0	203.3	100.7	77.5	57.8	46.0	39.3	35.0	32.2	32.2
42.5°	1260.7	881.2	164.0	91.2	67.2	49.9	40.1	33.8	29.1	26.3	26.7
45°	1356.6	895.8	137.2	82.6	57.8	43.3	34.6	27.9	23.6	21.6	21.2
47.5°	1515.9	950.4	118.8	73.5	49.5	37.0	29.1	23.2	18.9	17.3	16.9
50°	1794.3	1063.3	105.0	64.5	42.1	31.5	24.0	18.5	14.9	13.4	13.4
52.5°	2177.3	1309.4	95.2	54.3	35.4	26.7	19.7	14.9	11.8	10.6	10.2
55°	2577.6	1569.0	90.0	45.6	29.5	22.0	15.7	11.8	9.0	7.9	7.5
57.5°	2962.6	1772.7	84.2	37.0	23.6	16.9	12.2	9.0	6.3	5.5	5.1
60°	3331.8	1937.4	71.6	29.5	18.5	12.2	9.0	6.3	4.3	3.5	3.5
62.5°	3662.1	2033.4	56.2	23.6	14.2	8.7	5.9	4.7	3.1	2.4	2.4
65°	3700.6	1908.7	42.5	18.1	10.2	5.5	3.5	3.5	2.4	1.6	1.6
66°	3623.2	1802.9	37.4	16.5	9.0	4.7	3.1	2.8	2.0	1.2	1.2
67.5°	3450.2	1622.4	32.2	14.2	7.5	3.5	2.4	2.4	1.6	0.8	0.8
70°	2981.0	1325.2	25.6	10.6	5.5	2.8	1.6	1.6	1.2	0.8	0.8
72.5°	2272.1	989.4	20.8	7.9	3.9	2.0	1.2	1.2	1.2	0.8	0.8
75°	1370.4	532.8	16.1	5.9	3.5	1.6	0.8	1.2	1.6	1.2	0.8
77.5°	504.9	181.3	12.6	4.7	2.8	1.6	0.8	0.8	1.6	1.2	1.2
80°	123.9	47.2	9.0	3.9	2.8	1.6	0.8	0.8	1.6	1.6	1.6
82.5°	57.4	20.1	6.3	3.5	2.8	1.6	0.8	0.8	1.2	1.6	1.6
85°	33.0	9.4	5.1	3.9	2.8	1.6	0.8	0.8	1.2	1.6	1.6
87.5°	13.4	4.7	4.7	3.9	3.1	2.0	0.8	0.8	0.8	1.2	1.2
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)