

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: P450838

Luminaire Tested: **GALN-SA1C-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4650 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 57
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

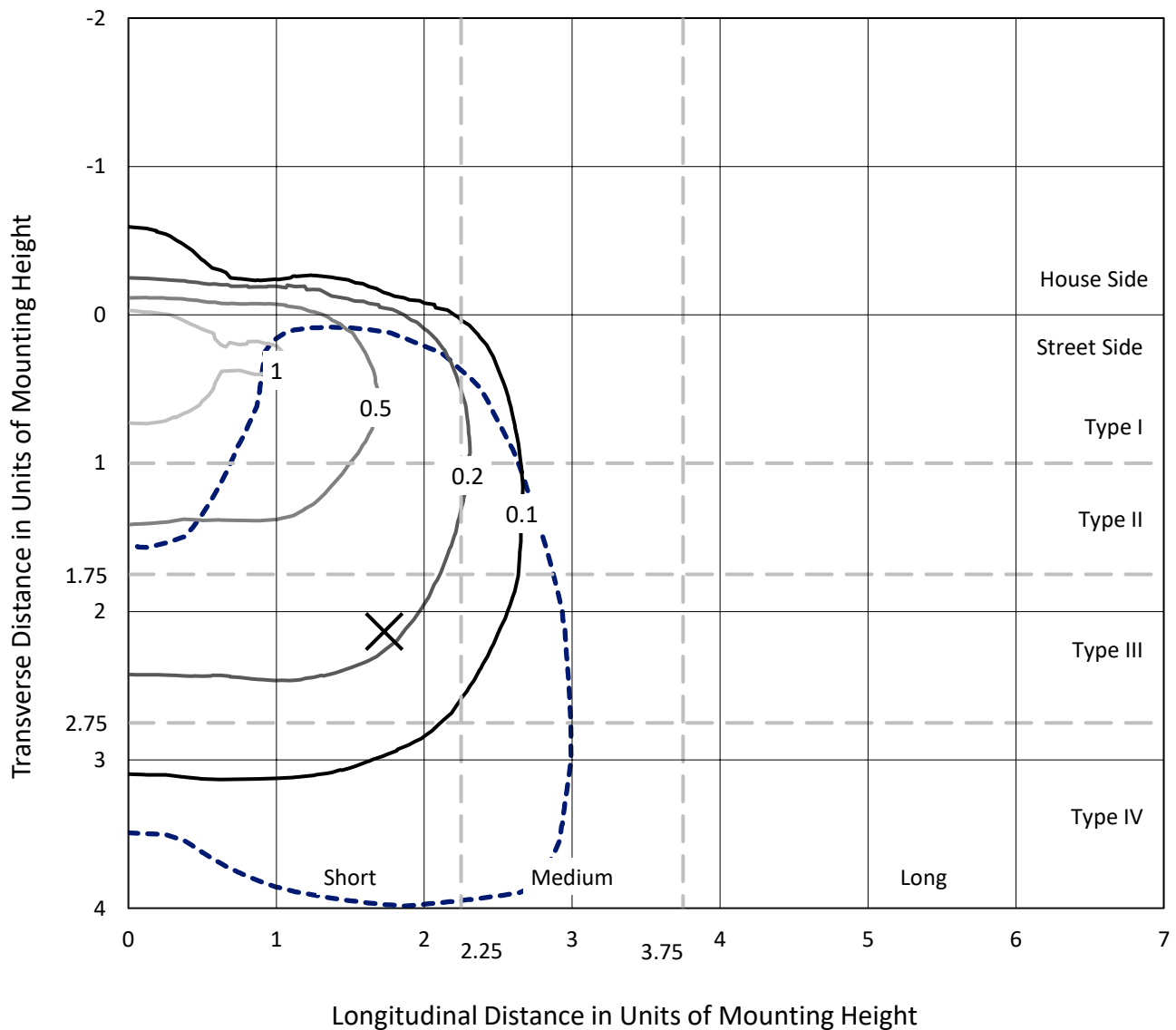


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Iso-Footcandle Lines of Horizontal Illumination

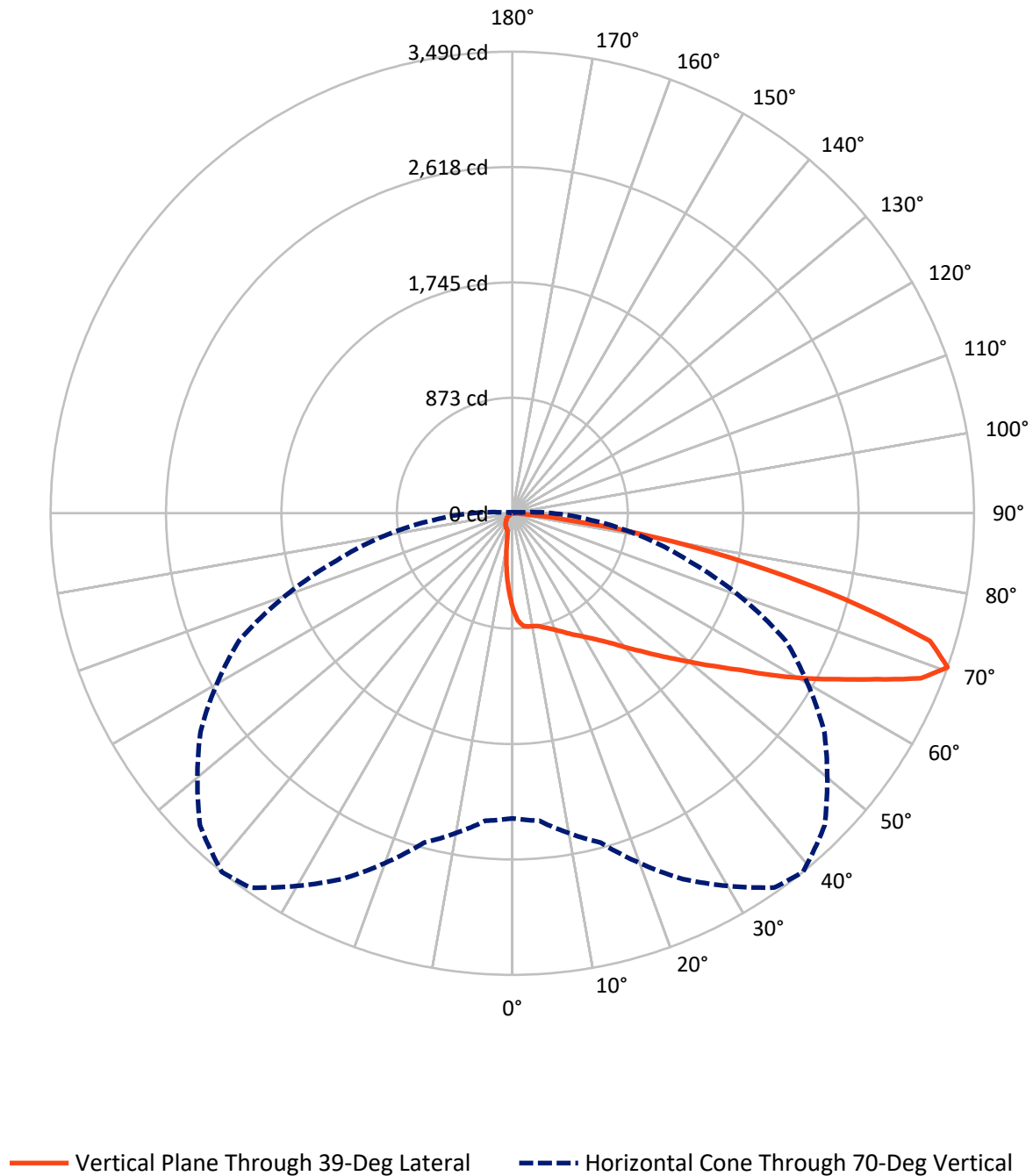
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	303.2	0.0	303.2
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	4346.8	0.0	4346.8
	% Fixture	93.5	0.0	93.5
Total	Lumens	4650.0	0.0	4650.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.9	1.3
10°-20°	160.8	3.5
20°-30°	269.4	5.8
30°-40°	417.8	9.0
40°-50°	662.1	14.2
50°-60°	970.6	20.9
60°-70°	1244.1	26.8
70°-80°	781.7	16.8
80°-90°	81.4	1.8
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°	4650.0	100.0
0°-180°	4650.0	100.0

Coefficient of Utilization



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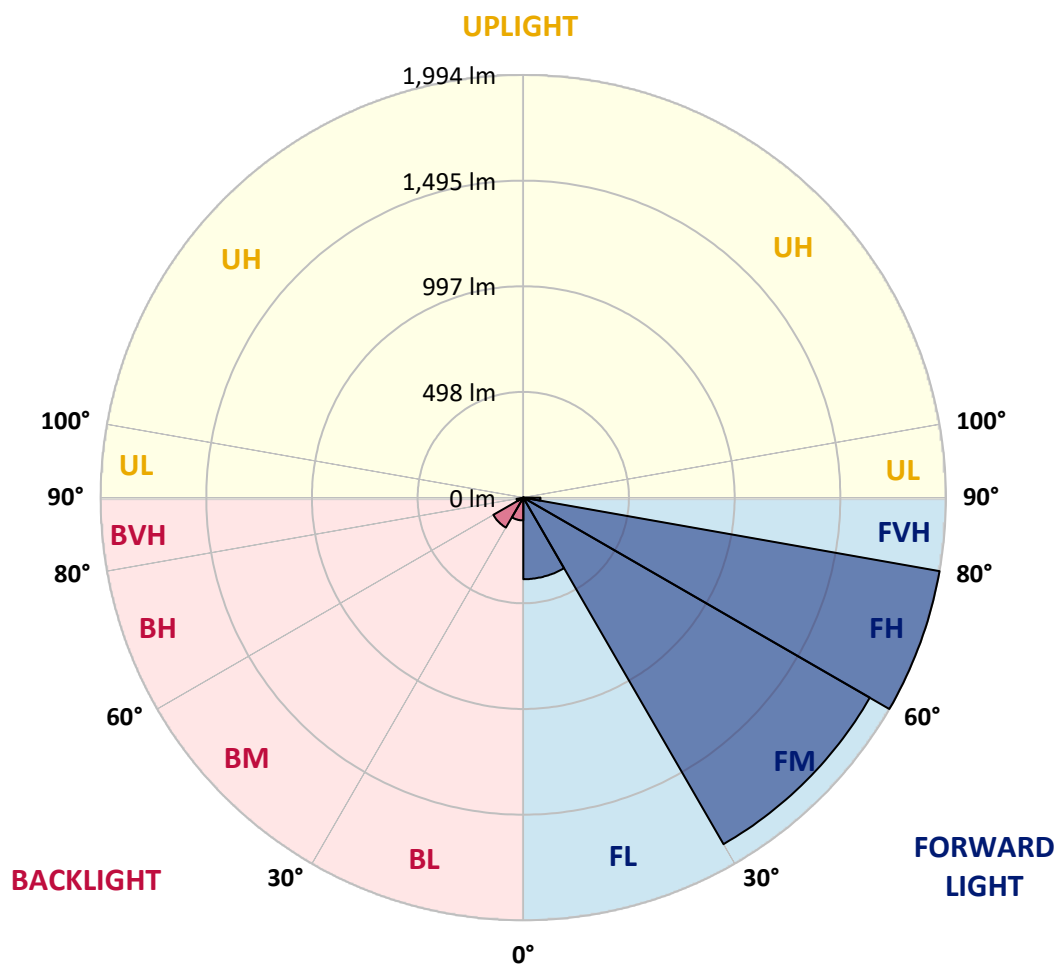
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	384.8	8.3			
FM	(30°-60°)	1887.4	40.6			
FH	(60°-80°)	1993.8	42.9			G2/5000
FVH	(80°-90°)	80.8	1.7			G1/100
BL	(0°-30°)	107.4	2.3	B0/110		
BM	(30°-60°)	163.2	3.5	B0/220		
BH	(60°-80°)	32.1	0.7	B0/110		G0/110
BVH	(80°-90°)	0.6	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	725.6	725.6	725.6	725.6	725.6	725.6	725.6	725.6	725.6	725.6	725.6
2.5°	838.4	835.5	831.8	827.4	814.9	812.7	805.2	789.3	770.2	754.6	733.1
5°	878.0	879.6	876.8	869.0	859.9	854.6	845.2	820.6	795.9	764.3	729.0
7.5°	887.1	890.2	886.8	879.3	870.5	864.9	857.4	836.2	807.4	771.5	723.1
10°	886.2	889.9	887.7	880.9	873.7	868.4	860.2	843.4	820.2	782.4	724.9
12.5°	884.6	889.6	889.3	885.9	879.9	875.9	870.9	855.9	834.3	798.4	735.2
15°	880.2	886.5	892.1	894.9	895.2	895.2	889.0	873.0	852.4	819.3	748.7
17.5°	882.1	889.3	903.4	911.5	917.1	916.5	909.9	892.7	869.9	840.9	762.7
20°	893.7	903.4	923.0	939.3	944.9	943.0	934.3	914.3	888.4	859.3	776.5
22.5°	922.1	930.9	955.5	974.6	978.7	973.7	961.2	934.0	910.5	879.3	793.1
25°	964.6	974.9	997.7	1012.1	1012.1	1009.3	991.8	959.9	935.5	907.1	814.6
27.5°	1016.2	1024.9	1047.4	1060.2	1052.7	1044.6	1027.1	988.7	965.2	942.1	840.5
30°	1068.3	1074.0	1097.7	1103.3	1095.5	1085.2	1066.5	1028.0	1007.4	989.6	878.0
32.5°	1117.7	1129.9	1149.6	1148.3	1137.7	1132.7	1115.5	1074.6	1063.0	1061.2	930.5
35°	1167.1	1176.5	1194.0	1198.3	1189.0	1188.0	1175.5	1145.2	1145.5	1157.7	1012.4
37.5°	1209.6	1218.0	1238.6	1248.3	1250.2	1254.9	1249.9	1229.9	1258.3	1291.8	1120.8
40°	1245.2	1257.1	1283.3	1300.2	1319.6	1336.8	1337.7	1342.1	1399.2	1456.7	1262.4
42.5°	1273.0	1289.6	1327.7	1358.9	1403.3	1425.2	1442.7	1466.7	1563.0	1648.9	1429.2
45°	1309.3	1328.3	1375.8	1424.9	1494.2	1530.2	1554.5	1618.9	1755.5	1872.6	1600.5
47.5°	1369.3	1379.3	1427.7	1499.2	1590.5	1641.7	1689.2	1786.7	1962.0	2067.0	1743.0
50°	1446.4	1453.0	1489.6	1588.9	1707.0	1774.5	1861.1	1975.8	2176.4	2228.2	1823.6
52.5°	1531.7	1533.9	1561.4	1687.7	1837.6	1922.6	2019.5	2161.1	2351.0	2343.2	1877.0
55°	1630.8	1627.7	1651.1	1794.8	1992.3	2089.5	2202.3	2350.7	2502.6	2424.8	1907.6
57.5°	1744.2	1735.8	1758.6	1937.0	2190.4	2306.7	2421.3	2514.5	2620.1	2493.2	1922.3
60°	1863.0	1846.1	1873.3	2096.7	2423.8	2534.1	2629.5	2654.4	2743.8	2547.6	1897.0
62.5°	1957.6	1957.9	2008.6	2266.7	2663.8	2760.4	2811.0	2833.5	2850.4	2535.7	1763.9
65°	2105.4	2110.4	2191.4	2502.6	2941.6	3025.4	3060.0	2986.9	2855.1	2388.2	1563.9
67.5°	2257.9	2273.9	2422.0	2827.6	3262.5	3330.0	3285.3	3016.6	2727.6	2051.7	1185.8
70°	2307.6	2333.9	2577.9	3051.3	3455.0	3490.0	3338.8	2878.2	2280.1	1371.8	596.8
72.5°	2114.5	2157.0	2488.2	2969.7	3332.2	3301.9	2987.2	2413.8	1449.6	520.9	182.2
75°	1491.1	1509.9	2067.9	2463.5	2680.1	2594.1	2272.3	1556.1	596.2	146.2	62.5
77.5°	769.9	760.9	1229.9	1634.5	1911.4	1822.3	1488.0	805.6	225.9	60.9	38.7
80°	398.1	404.7	532.1	856.5	1166.8	1073.7	793.4	373.4	120.3	33.7	29.7
82.5°	223.1	209.4	305.9	374.0	545.6	427.8	304.3	264.4	52.5	20.3	28.1
85°	40.6	42.5	167.8	202.2	189.4	120.3	98.1	176.5	15.3	11.2	19.7
87.5°	0.6	0.6	32.5	58.1	36.9	16.9	30.9	25.3	3.1	4.4	3.4
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°	725.6	725.6	725.6	725.6	725.6	725.6	725.6	725.6	725.6	725.6	725.6
2.5°	722.1	710.2	688.1	666.2	638.4	615.6	600.3	584.3	568.1	569.3	573.1
5°	709.6	689.0	645.3	599.0	554.6	514.6	475.3	440.0	425.6	412.5	413.1
7.5°	697.1	668.1	604.0	531.5	464.3	396.2	346.8	306.2	284.7	268.4	263.7
10°	691.5	653.1	566.2	466.5	371.2	296.8	233.4	200.3	174.7	166.5	168.7
12.5°	694.0	645.6	532.1	407.8	294.3	206.9	162.5	145.6	140.0	139.0	138.4
15°	698.7	640.3	498.7	342.8	216.2	153.7	136.6	133.4	132.8	132.2	132.5
17.5°	704.9	635.6	463.1	281.8	165.9	134.4	129.4	127.8	127.5	127.5	127.5
20°	711.2	630.3	423.4	227.5	138.4	126.9	123.7	122.8	122.5	122.5	122.2
22.5°	718.4	625.6	383.1	178.7	127.5	121.6	118.7	118.1	117.8	117.5	117.5
25°	728.7	619.6	340.3	146.2	120.6	116.6	113.7	113.1	112.8	111.6	111.9
27.5°	742.4	615.3	296.2	126.2	114.4	110.3	108.4	107.5	106.9	105.9	106.2
30°	761.2	611.5	249.4	115.3	107.2	103.7	101.9	101.2	100.6	99.7	99.7
32.5°	793.7	613.1	200.0	106.6	100.6	96.6	94.7	94.1	93.4	92.5	92.5
35°	842.4	622.1	160.0	99.1	92.8	88.7	86.9	86.9	85.9	84.7	84.4
37.5°	922.1	645.3	128.4	91.9	85.3	81.6	79.4	78.7	77.8	75.9	75.6
40°	1016.2	681.2	108.1	84.7	78.4	74.7	72.8	70.9	68.4	66.6	66.2
42.5°	1134.3	718.1	93.7	77.5	71.9	68.4	66.2	63.1	59.4	56.9	56.6
45°	1257.4	751.8	84.1	70.9	65.6	62.8	60.3	55.3	50.6	47.5	47.2
47.5°	1349.3	758.1	76.2	64.7	60.3	57.5	54.1	47.8	41.6	38.7	37.8
50°	1392.7	727.7	68.1	58.4	55.0	51.9	47.5	40.3	33.4	30.0	29.4
52.5°	1408.0	675.3	61.6	52.8	49.7	45.9	40.6	32.5	26.2	22.8	22.5
55°	1401.7	609.0	55.6	47.5	43.4	39.1	33.7	25.9	19.4	16.6	15.9
57.5°	1368.9	524.6	49.7	42.2	37.2	32.8	26.9	19.4	13.1	10.6	10.3
60°	1280.5	409.7	43.7	36.2	31.6	26.9	21.2	13.7	8.1	5.9	5.9
62.5°	1131.1	304.0	38.1	30.3	26.6	21.6	15.0	8.7	4.4	3.1	2.8
65°	945.2	224.4	31.9	25.6	22.2	16.9	10.6	5.3	2.2	0.9	0.6
67.5°	659.6	138.4	26.6	20.9	18.1	12.2	6.6	2.2	0.9	0.0	0.0
70°	299.7	65.9	20.3	15.9	13.7	8.7	3.4	1.2	0.6	0.0	0.0
72.5°	93.1	34.7	14.4	11.6	9.4	5.6	1.9	0.9	0.6	0.0	0.0
75°	43.1	22.2	9.1	6.2	5.3	2.8	1.2	0.6	0.3	0.0	0.0
77.5°	32.2	17.2	5.3	3.4	2.8	1.9	0.9	0.6	0.3	0.0	0.0
80°	28.1	8.7	3.1	2.2	1.6	1.2	0.6	0.3	0.0	0.0	0.0
82.5°	25.3	4.4	1.9	1.2	0.9	0.6	0.3	0.3	0.0	0.0	0.0
85°	13.7	2.5	1.2	0.9	0.6	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	2.5	1.2	0.9	0.6	0.6	0.3	0.3	0.3	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)