

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: P652227

Luminaire Tested: **GALN-SA2B-840-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652227  
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-SA2B-840-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH 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: 7915.5 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

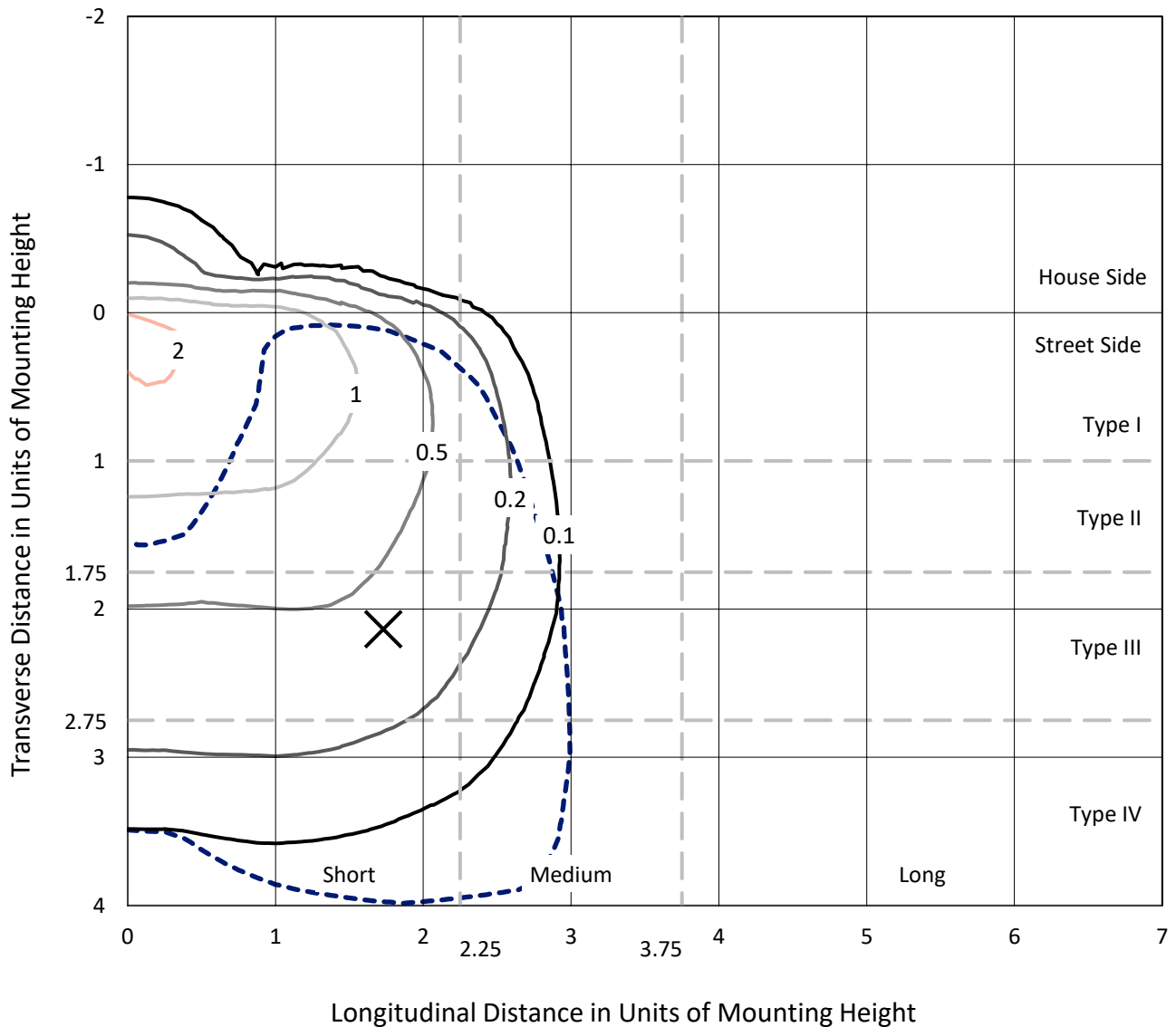
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

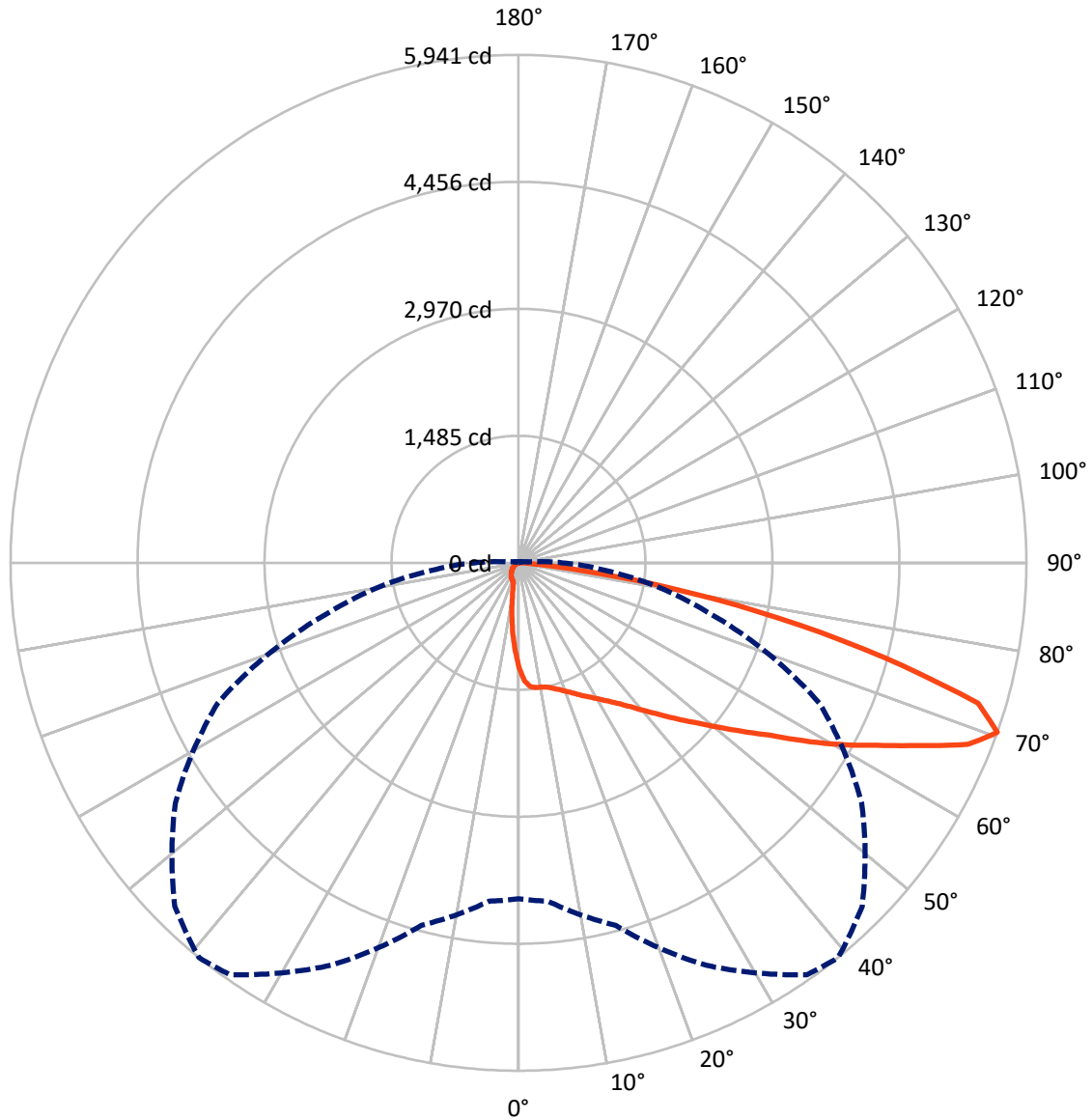
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	516.1	0.0	516.1
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	7399.4	0.0	7399.4
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	7915.5	0.0	7915.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.3	1.3
10°-20°	273.8	3.5
20°-30°	458.6	5.8
30°-40°	711.3	9.0
40°-50°	1127.1	14.2
50°-60°	1652.2	20.9
60°-70°	2117.8	26.8
70°-80°	1330.7	16.8
80°-90°	138.6	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°	7915.5	100.0
0°-180°	7915.5	100.0

**Coefficient of Utilization**

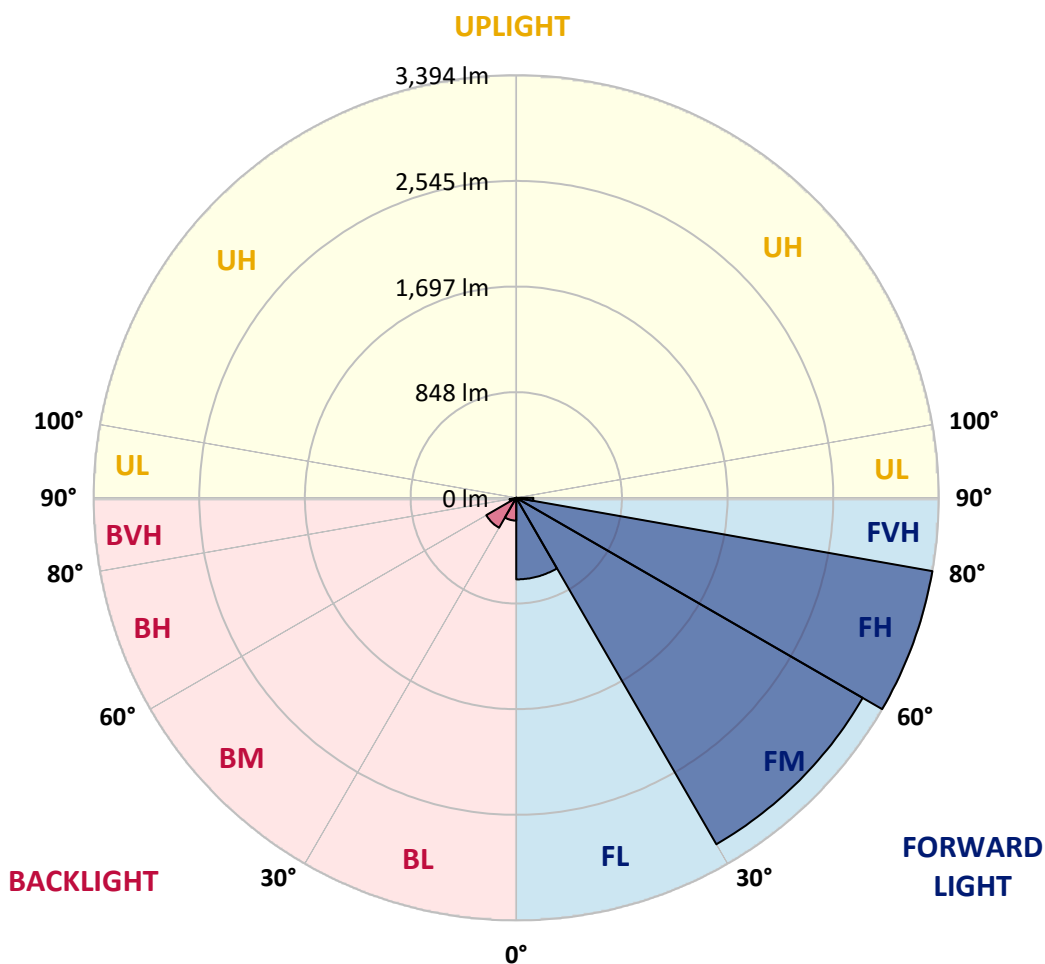


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	655.0	8.3			
FM (30°-60°)	3212.9	40.6			
FH (60°-80°)	3393.9	42.9			G2/5000
FVH (80°-90°)	137.6	1.7			G2/225
BL (0°-30°)	182.8	2.3	B1/500		
BM (30°-60°)	277.8	3.5	B1/1000		
BH (60°-80°)	54.6	0.7	B0/110		G0/110
BVH (80°-90°)	1.0	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1427.1	1422.3	1415.9	1408.5	1387.2	1383.5	1370.7	1343.6	1311.1	1284.5	1247.9
5°	1494.6	1497.3	1492.5	1479.2	1463.8	1454.8	1438.8	1396.8	1354.8	1301.0	1241.0
7.5°	1510.1	1515.4	1509.5	1496.8	1481.9	1472.3	1459.6	1423.4	1374.4	1313.3	1230.8
10°	1508.5	1514.9	1511.1	1499.4	1487.2	1478.1	1464.3	1435.6	1396.2	1331.9	1234.0
12.5°	1505.8	1514.3	1513.8	1508.0	1497.8	1490.9	1482.4	1456.9	1420.2	1359.1	1251.6
15°	1498.4	1509.0	1518.6	1523.4	1523.9	1523.9	1513.3	1486.1	1451.1	1394.6	1274.5
17.5°	1501.6	1513.8	1537.8	1551.6	1561.1	1560.1	1549.0	1519.7	1480.8	1431.4	1298.4
20°	1521.3	1537.8	1571.2	1598.9	1608.5	1605.3	1590.4	1556.4	1512.2	1462.8	1321.8
22.5°	1569.6	1584.5	1626.6	1659.0	1665.9	1657.4	1636.2	1589.9	1550.0	1496.8	1350.0
25°	1642.0	1659.5	1698.4	1722.9	1722.9	1718.1	1688.3	1634.0	1592.5	1544.2	1386.6
27.5°	1729.8	1744.7	1782.9	1804.8	1792.0	1778.1	1748.4	1682.9	1643.1	1603.7	1430.8
30°	1818.6	1828.2	1868.6	1878.2	1864.8	1847.3	1815.4	1750.0	1714.9	1684.5	1494.6
32.5°	1902.6	1923.4	1956.9	1954.7	1936.7	1928.2	1898.9	1829.3	1809.6	1806.4	1584.0
35°	1986.7	2002.6	2032.4	2039.8	2023.9	2022.4	2001.1	1949.4	1949.9	1970.7	1723.4
37.5°	2059.0	2073.4	2108.5	2125.0	2128.2	2136.1	2127.6	2093.6	2142.0	2198.9	1908.0
40°	2119.7	2139.8	2184.6	2213.3	2246.2	2275.5	2277.1	2284.6	2381.9	2479.8	2148.9
42.5°	2167.0	2195.2	2260.1	2313.3	2388.8	2426.0	2455.8	2496.8	2660.6	2806.8	2432.9
45°	2228.6	2261.1	2342.0	2425.5	2543.6	2604.7	2646.2	2755.8	2988.2	3187.7	2724.4
47.5°	2330.8	2347.8	2430.3	2552.1	2707.4	2794.6	2875.5	3041.5	3339.9	3518.6	2967.0
50°	2462.2	2473.4	2535.6	2704.7	2905.8	3020.7	3168.0	3363.2	3704.8	3793.0	3104.2
52.5°	2607.4	2611.1	2658.0	2872.9	3128.2	3272.8	3437.8	3678.7	4002.1	3988.8	3195.1
55°	2776.1	2770.7	2810.6	3055.3	3391.4	3556.8	3748.8	4001.6	4260.1	4127.6	3247.3
57.5°	2969.1	2954.8	2993.5	3297.3	3728.7	3926.5	4121.7	4280.3	4460.1	4244.1	3272.3
60°	3171.2	3142.5	3188.8	3569.1	4126.0	4313.7	4476.0	4518.5	4670.7	4336.6	3229.2
62.5°	3332.4	3333.0	3419.1	3858.4	4534.5	4698.8	4785.0	4823.3	4852.1	4316.4	3002.6
65°	3584.0	3592.5	3730.3	4260.1	5007.4	5149.9	5209.0	5084.5	4860.1	4065.4	2662.2
67.5°	3843.5	3870.7	4122.8	4813.2	5553.6	5668.5	5592.5	5135.1	4643.0	3492.5	2018.6
70°	3928.1	3972.8	4388.3	5194.1	5881.3	5940.9	5683.4	4899.4	3881.3	2335.0	1015.9
72.5°	3599.4	3671.7	4235.6	5055.3	5672.3	5620.7	5085.0	4109.0	2467.5	886.7	310.1
75°	2538.2	2570.2	3520.2	4193.6	4562.2	4415.9	3868.0	2648.9	1014.9	248.9	106.4
77.5°	1310.6	1295.2	2093.6	2782.4	3253.7	3102.1	2532.9	1371.3	384.6	103.7	65.9
80°	677.7	688.8	905.8	1458.0	1986.1	1827.7	1350.5	635.6	204.8	57.4	50.5
82.5°	379.8	356.4	520.7	636.7	928.7	728.2	518.1	450.0	89.4	34.6	47.9
85°	69.1	72.3	285.6	344.1	322.4	204.8	167.0	300.5	26.1	19.2	33.5
87.5°	1.1	1.1	55.3	98.9	62.7	28.8	52.6	43.1	5.3	7.5	5.9
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°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1229.2	1209.0	1171.3	1134.0	1086.7	1047.9	1021.8	994.7	967.0	969.2	975.5
5°	1207.9	1172.9	1098.4	1019.6	944.1	876.1	809.0	748.9	724.4	702.2	703.2
7.5°	1186.7	1137.2	1028.2	904.7	790.5	674.5	590.4	521.3	484.6	456.9	448.9
10°	1177.1	1111.7	963.8	794.2	631.9	505.3	397.4	340.9	297.4	283.5	287.2
12.5°	1181.4	1098.9	905.8	694.2	501.1	352.1	276.6	247.8	238.3	236.7	235.6
15°	1189.3	1089.9	848.9	583.5	368.1	261.7	232.5	227.2	226.1	225.0	225.6
17.5°	1200.0	1081.9	788.3	479.8	282.4	228.8	220.2	217.6	217.0	217.0	217.0
20°	1210.6	1072.9	720.7	387.2	235.6	216.0	210.7	209.1	208.5	208.5	208.0
22.5°	1222.8	1064.9	652.1	304.3	217.0	206.9	202.1	201.1	200.5	200.0	200.0
25°	1240.4	1054.8	579.3	248.9	205.3	198.4	193.6	192.6	192.0	189.9	190.4
27.5°	1263.8	1047.3	504.3	214.9	194.7	187.8	184.6	183.0	181.9	180.3	180.8
30°	1295.7	1040.9	424.5	196.3	182.4	176.6	173.4	172.3	171.3	169.7	169.7
32.5°	1351.1	1043.6	340.4	181.4	171.3	164.3	161.1	160.1	159.0	157.4	157.4
35°	1434.0	1059.0	272.3	168.6	157.9	151.0	147.8	147.8	146.2	144.1	143.6
37.5°	1569.6	1098.4	218.6	156.3	145.2	138.8	135.1	134.1	132.5	129.3	128.8
40°	1729.8	1159.6	184.0	144.1	133.5	127.2	124.0	120.8	116.5	113.3	112.8
42.5°	1930.9	1222.3	159.5	132.0	122.4	116.5	112.8	107.5	101.1	96.8	96.3
45°	2140.4	1279.7	143.1	120.8	111.7	106.9	102.7	94.1	86.2	80.8	80.3
47.5°	2296.8	1290.4	129.8	110.1	102.7	97.9	92.0	81.4	70.7	65.9	64.3
50°	2370.7	1238.8	116.0	99.5	93.6	88.3	80.8	68.6	56.9	51.0	50.0
52.5°	2396.8	1149.5	104.8	89.9	84.6	78.2	69.1	55.3	44.7	38.9	38.3
55°	2386.2	1036.7	94.7	80.8	73.9	66.5	57.4	44.2	33.0	28.2	27.2
57.5°	2330.3	893.1	84.6	71.8	63.3	55.8	45.8	33.0	22.4	18.1	17.6
60°	2179.8	697.4	74.4	61.7	53.7	45.8	36.2	23.4	13.8	10.1	10.1
62.5°	1925.5	517.6	64.9	51.6	45.2	36.7	25.6	14.9	7.5	5.3	4.8
65°	1609.0	381.9	54.2	43.6	37.8	28.8	18.1	9.1	3.7	1.6	1.1
67.5°	1122.8	235.6	45.2	35.7	30.9	20.8	11.2	3.7	1.6	0.0	0.0
70°	510.1	112.3	34.6	27.2	23.4	14.9	5.9	2.1	1.1	0.0	0.0
72.5°	158.5	59.0	24.5	19.7	16.0	9.6	3.2	1.6	1.1	0.0	0.0
75°	73.4	37.8	15.4	10.6	9.1	4.8	2.1	1.1	0.5	0.0	0.0
77.5°	54.7	29.3	9.1	5.9	4.8	3.2	1.6	1.1	0.5	0.0	0.0
80°	47.9	14.9	5.3	3.7	2.7	2.1	1.1	0.5	0.0	0.0	0.0
82.5°	43.1	7.5	3.2	2.1	1.6	1.1	0.5	0.5	0.0	0.0	0.0
85°	23.4	4.3	2.1	1.6	1.1	0.5	0.5	0.0	0.0	0.0	0.0
87.5°	4.3	2.1	1.6	1.1	1.1	0.5	0.5	0.5	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)