

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: P527217

Luminaire Tested: **GALN-SA2B-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527217
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-727-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5586 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

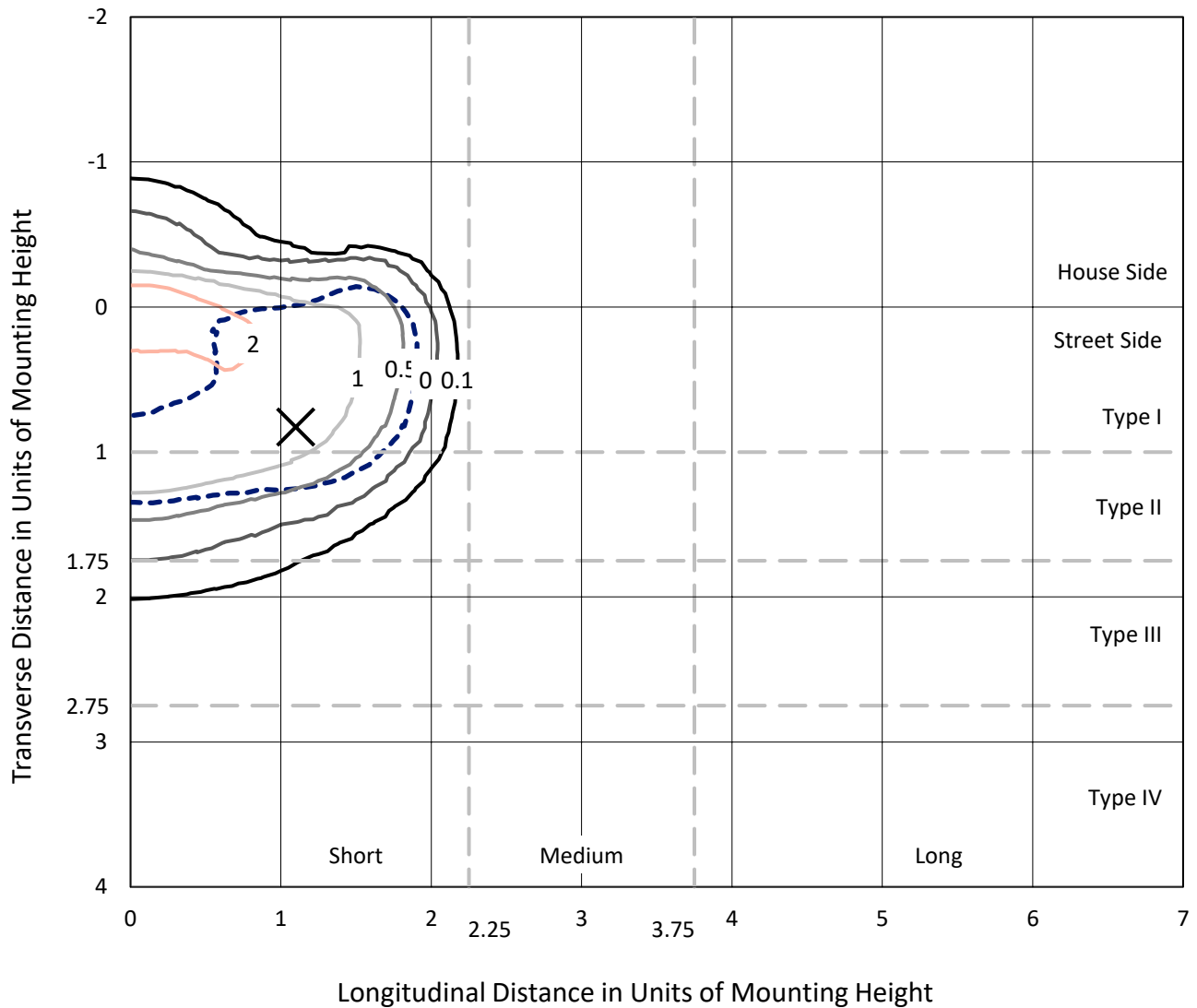
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

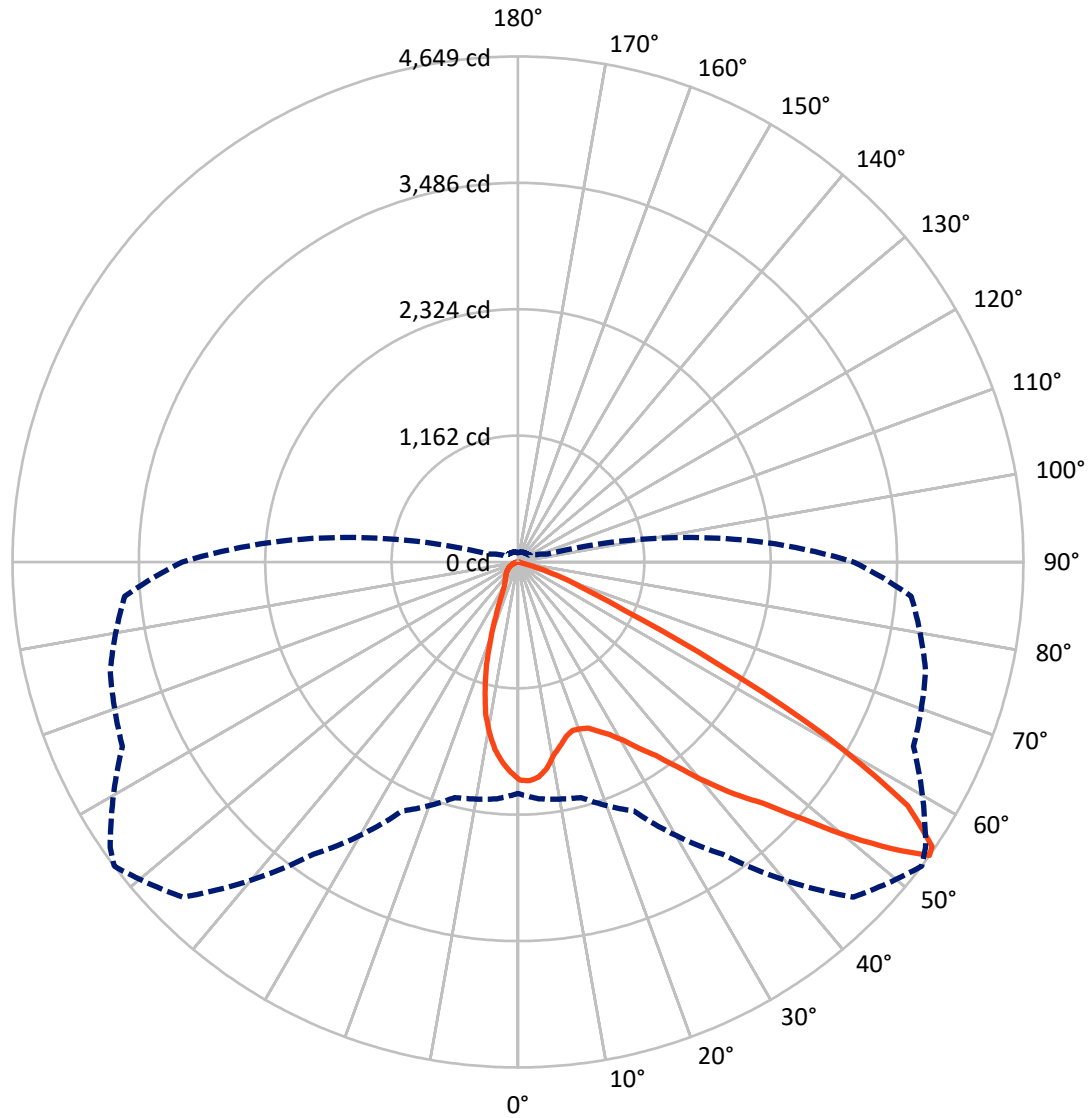
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	924.2	0.0	924.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	4661.8	0.0	4661.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	5586.0	0.0	5586.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.1	3.1
10°-20°	394.7	7.1
20°-30°	560.9	10.0
30°-40°	865.6	15.5
40°-50°	1357.2	24.3
50°-60°	1576.6	28.2
60°-70°	595.7	10.7
70°-80°	56.6	1.0
80°-90°	6.4	0.1
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°	5586.0	100.0
0°-180°	5586.0	100.0

Coefficient of Utilization



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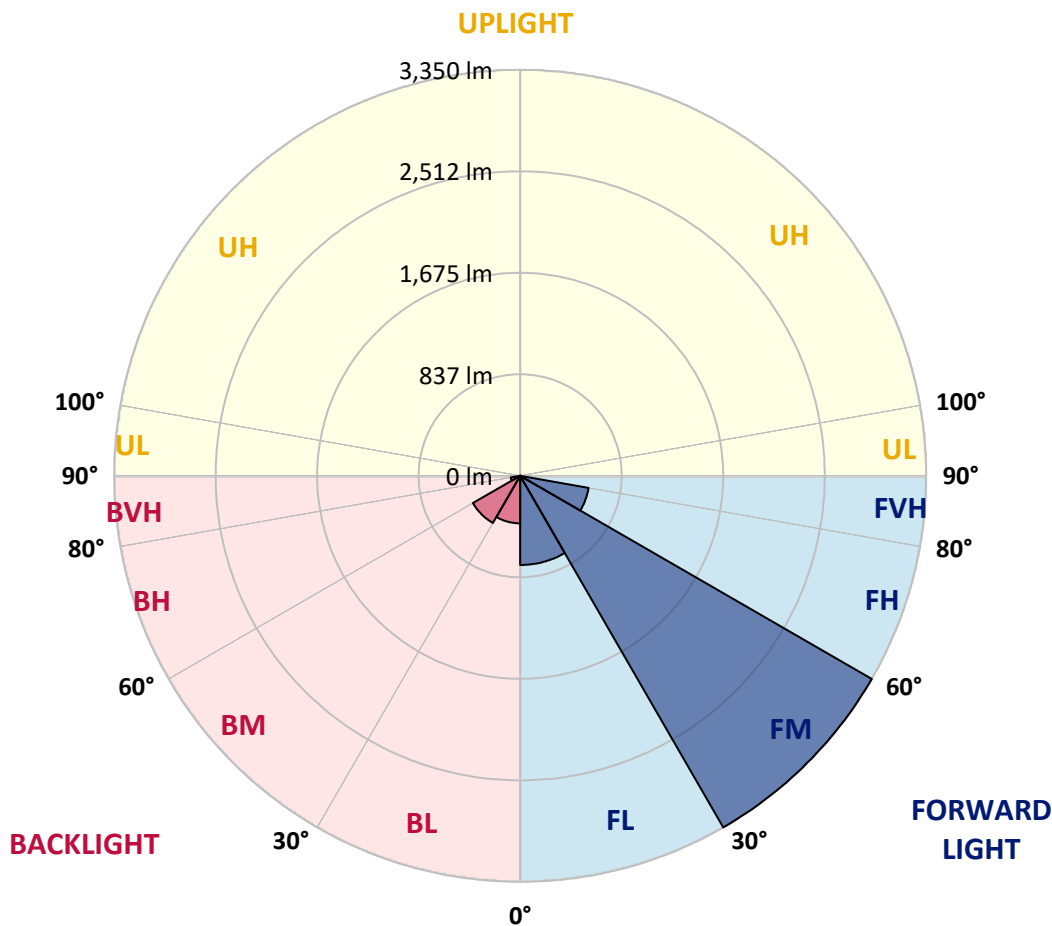
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	735.5	13.2			
FM (30°-60°)	3349.7	60.0			
FH (60°-80°)	573.2	10.3			G0/660
FVH (80°-90°)	3.3	0.1			G0/10
BL (0°-30°)	392.2	7.0	B1/500		
BM (30°-60°)	449.7	8.1	B1/1000		
BH (60°-80°)	79.2	1.4	B0/110		G0/110
BVH (80°-90°)	3.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4
2.5°	1996.0	1978.3	1996.0	1998.1	2010.6	2022.0	2014.7	2031.4	2022.0	2011.6	2008.5
5°	1834.7	1858.6	1859.7	1897.1	1888.8	1957.5	1987.7	1979.3	2030.3	2027.2	2019.9
7.5°	1690.0	1680.7	1693.2	1736.9	1792.0	1871.1	1914.8	1913.8	1986.6	2038.7	2033.5
10°	1555.8	1554.7	1580.8	1615.1	1661.9	1745.2	1805.5	1835.7	1949.2	2028.3	2039.7
12.5°	1465.3	1461.1	1489.2	1517.3	1591.2	1655.7	1732.7	1747.3	1877.4	1991.8	2010.6
15°	1405.9	1415.3	1417.4	1471.5	1518.3	1603.7	1664.0	1694.2	1844.1	1962.7	2034.5
17.5°	1395.5	1408.0	1409.1	1453.8	1503.8	1575.6	1628.6	1669.2	1816.0	1977.3	2035.5
20°	1416.3	1409.1	1415.3	1443.4	1492.3	1561.0	1638.0	1651.5	1806.6	1984.5	2047.0
22.5°	1475.7	1473.6	1458.0	1480.9	1515.2	1587.0	1659.9	1680.7	1833.6	2022.0	2056.3
25°	1541.2	1552.7	1538.1	1535.0	1558.9	1629.7	1726.5	1753.5	1924.2	2089.7	2085.5
27.5°	1664.0	1652.6	1652.6	1638.0	1631.8	1666.1	1798.3	1843.0	2025.1	2177.1	2118.8
30°	1781.6	1794.1	1784.7	1789.9	1748.3	1745.2	1900.2	1955.4	2204.1	2310.3	2189.6
32.5°	1967.9	1951.2	1966.9	1953.3	1898.2	1842.0	2038.7	2095.9	2420.6	2463.2	2295.7
35°	2123.0	2115.7	2182.3	2180.2	2090.7	2035.5	2185.4	2270.7	2571.5	2646.4	2420.6
37.5°	2343.6	2330.0	2406.0	2442.4	2362.3	2280.1	2395.6	2494.5	2712.0	2793.1	2548.6
40°	2570.4	2604.8	2706.8	2767.1	2681.8	2572.5	2652.6	2682.8	2805.6	2888.9	2636.0
42.5°	2857.7	2907.6	3011.7	3063.7	3056.4	2937.8	2913.9	2912.8	2873.3	2861.8	2700.5
45°	3133.4	3114.7	3275.0	3388.4	3480.0	3445.6	3165.7	3134.5	2980.5	2902.4	2717.2
47.5°	3254.2	3247.9	3357.2	3559.1	3871.3	3913.9	3532.0	3411.3	3161.5	3073.1	2807.7
50°	3098.1	3130.3	3238.5	3462.3	3941.0	4266.7	3981.6	3819.2	3372.8	3281.2	3022.1
52.5°	2588.1	2610.0	2713.0	2997.1	3703.7	4474.8	4412.4	4318.7	3761.0	3609.0	3395.7
54°	2128.2	2186.4	2242.6	2527.8	3281.2	4359.3	4648.6	4576.8	4013.8	3881.7	3630.9
55°	1853.4	1887.8	1928.3	2212.4	2988.8	4163.7	4621.6	4627.8	4183.5	3967.0	3789.1
57.5°	1353.9	1377.8	1336.2	1462.1	2052.2	3381.1	4227.2	4395.8	4412.4	4095.0	3885.8
60°	1034.4	1044.8	998.0	1017.8	1275.9	2320.7	3269.8	3472.7	3980.5	3578.8	3291.6
62.5°	802.4	804.4	803.4	837.7	879.4	1365.3	2044.9	2224.9	2744.2	2541.3	2235.3
65°	591.1	581.7	598.4	702.4	750.3	858.5	1077.1	1208.2	1491.3	1259.2	900.2
67.5°	383.0	386.1	402.7	522.4	643.1	658.7	662.9	652.5	653.5	360.1	225.8
70°	230.0	235.2	230.0	295.5	460.0	472.5	431.9	421.5	328.8	85.3	84.3
72.5°	136.3	129.0	115.5	127.0	191.5	228.9	206.1	205.0	129.0	50.0	50.0
75°	57.2	52.0	42.7	38.5	51.0	48.9	48.9	43.7	34.3	33.3	31.2
77.5°	11.4	11.4	8.3	9.4	12.5	14.6	17.7	17.7	20.8	20.8	19.8
80°	0.0	1.0	3.1	6.2	9.4	13.5	15.6	15.6	17.7	17.7	14.6
82.5°	0.0	1.0	3.1	6.2	8.3	12.5	15.6	15.6	17.7	18.7	15.6
85°	0.0	1.0	3.1	5.2	8.3	10.4	10.4	9.4	7.3	6.2	4.2
87.5°	0.0	0.0	1.0	2.1	1.0	2.1	2.1	2.1	2.1	2.1	2.1
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°	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4
2.5°	2015.8	2014.7	1989.7	1949.2	1939.8	1905.5	1901.3	1880.5	1891.9	1853.4	1849.3
5°	1999.1	1986.6	1956.4	1930.4	1854.5	1800.3	1757.7	1705.6	1675.5	1680.7	1660.9
7.5°	2023.0	1990.8	1937.7	1847.2	1754.6	1659.9	1608.9	1502.7	1464.2	1407.0	1398.7
10°	1998.1	1974.1	1891.9	1742.1	1614.1	1477.7	1358.1	1240.5	1151.0	1112.5	1104.1
12.5°	1996.0	1954.4	1817.0	1650.5	1465.3	1269.6	1095.8	949.1	860.6	810.7	799.2
15°	1963.7	1913.8	1732.7	1509.0	1253.0	1009.4	820.0	678.5	610.9	581.7	590.1
17.5°	1966.9	1891.9	1648.4	1359.1	1043.8	741.0	559.9	487.0	469.3	476.6	476.6
20°	1963.7	1843.0	1546.4	1186.4	799.2	514.1	411.1	385.0	396.5	419.4	414.2
22.5°	1947.1	1820.1	1452.8	1004.2	588.0	380.9	329.9	330.9	348.6	376.7	383.0
25°	1959.6	1769.1	1334.1	820.0	428.8	303.9	286.2	293.5	312.2	333.0	337.2
27.5°	1950.2	1732.7	1210.3	636.9	313.2	261.2	260.2	268.5	276.8	292.4	292.4
30°	1960.6	1699.4	1088.5	473.5	258.1	239.4	235.2	241.4	249.8	252.9	251.8
32.5°	1999.1	1674.4	948.0	353.8	227.9	218.5	218.5	218.5	217.5	221.7	222.7
35°	2083.4	1678.6	824.2	273.7	208.1	200.8	197.7	193.6	191.5	193.6	194.6
37.5°	2175.0	1676.5	696.2	233.1	193.6	187.3	180.0	173.8	172.7	174.8	171.7
40°	2215.6	1696.3	577.6	209.2	180.0	172.7	161.3	156.1	157.1	159.2	157.1
42.5°	2270.7	1702.5	500.6	190.4	167.5	156.1	148.8	142.6	141.5	144.7	143.6
45°	2269.7	1667.1	419.4	180.0	156.1	143.6	134.2	129.0	129.0	131.1	132.2
47.5°	2336.3	1661.9	360.1	170.7	147.8	135.3	123.8	119.7	118.6	118.6	116.6
50°	2491.3	1734.8	314.3	160.3	137.4	125.9	116.6	111.4	107.2	105.1	104.1
52.5°	2794.2	1961.6	278.9	147.8	125.9	116.6	108.2	104.1	98.9	93.7	92.6
54°	3087.6	2195.8	276.8	137.4	116.6	110.3	103.0	100.9	94.7	87.4	85.3
55°	3219.8	2332.1	284.1	129.0	110.3	106.1	99.9	97.8	91.6	83.3	82.2
57.5°	3329.1	2385.2	279.9	107.2	99.9	98.9	93.7	90.5	83.3	71.8	69.7
60°	2679.7	1803.5	200.8	94.7	91.6	89.5	85.3	83.3	73.9	61.4	60.4
62.5°	1693.2	1037.5	128.0	83.3	80.1	77.0	71.8	69.7	61.4	48.9	45.8
65°	721.2	429.8	86.4	73.9	68.7	63.5	59.3	56.2	48.9	36.4	35.4
67.5°	187.3	153.0	71.8	64.5	57.2	50.0	46.8	41.6	33.3	25.0	23.9
70°	84.3	77.0	60.4	54.1	45.8	38.5	34.3	29.1	21.9	16.7	15.6
72.5°	50.0	48.9	45.8	40.6	34.3	29.1	25.0	19.8	14.6	9.4	9.4
75°	31.2	30.2	31.2	28.1	23.9	21.9	18.7	13.5	8.3	4.2	4.2
77.5°	18.7	18.7	18.7	17.7	16.7	16.7	13.5	8.3	4.2	1.0	1.0
80°	14.6	14.6	15.6	14.6	14.6	14.6	11.4	6.2	2.1	0.0	0.0
82.5°	14.6	15.6	17.7	16.7	14.6	12.5	10.4	6.2	2.1	0.0	0.0
85°	4.2	3.1	5.2	7.3	10.4	9.4	7.3	5.2	2.1	0.0	0.0
87.5°	2.1	2.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	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)