

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: P938726

Luminaire Tested: **GALN-SB1A-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB1A-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3264 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 30.9
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

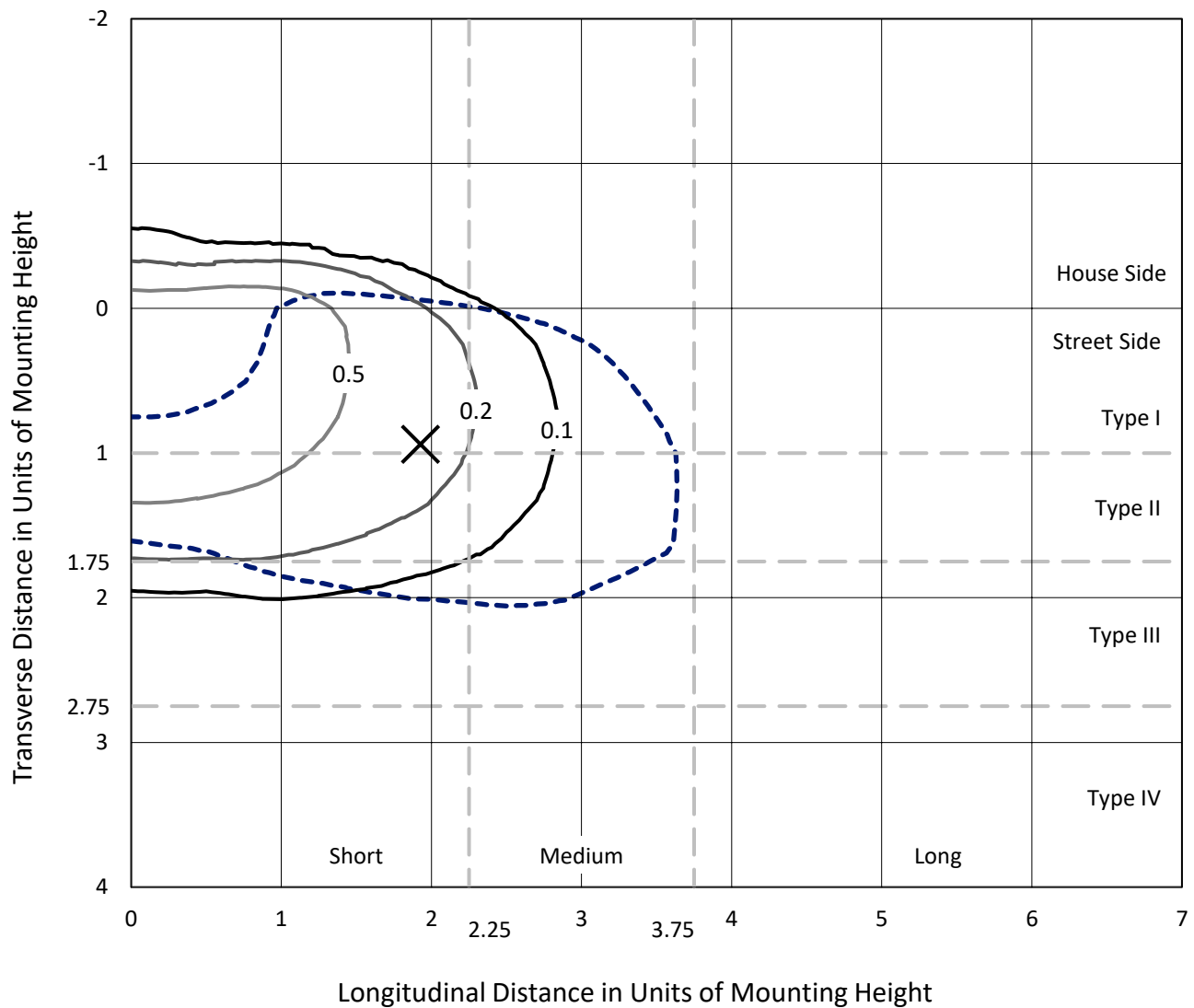


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Iso-Footcandle Lines of Horizontal Illumination

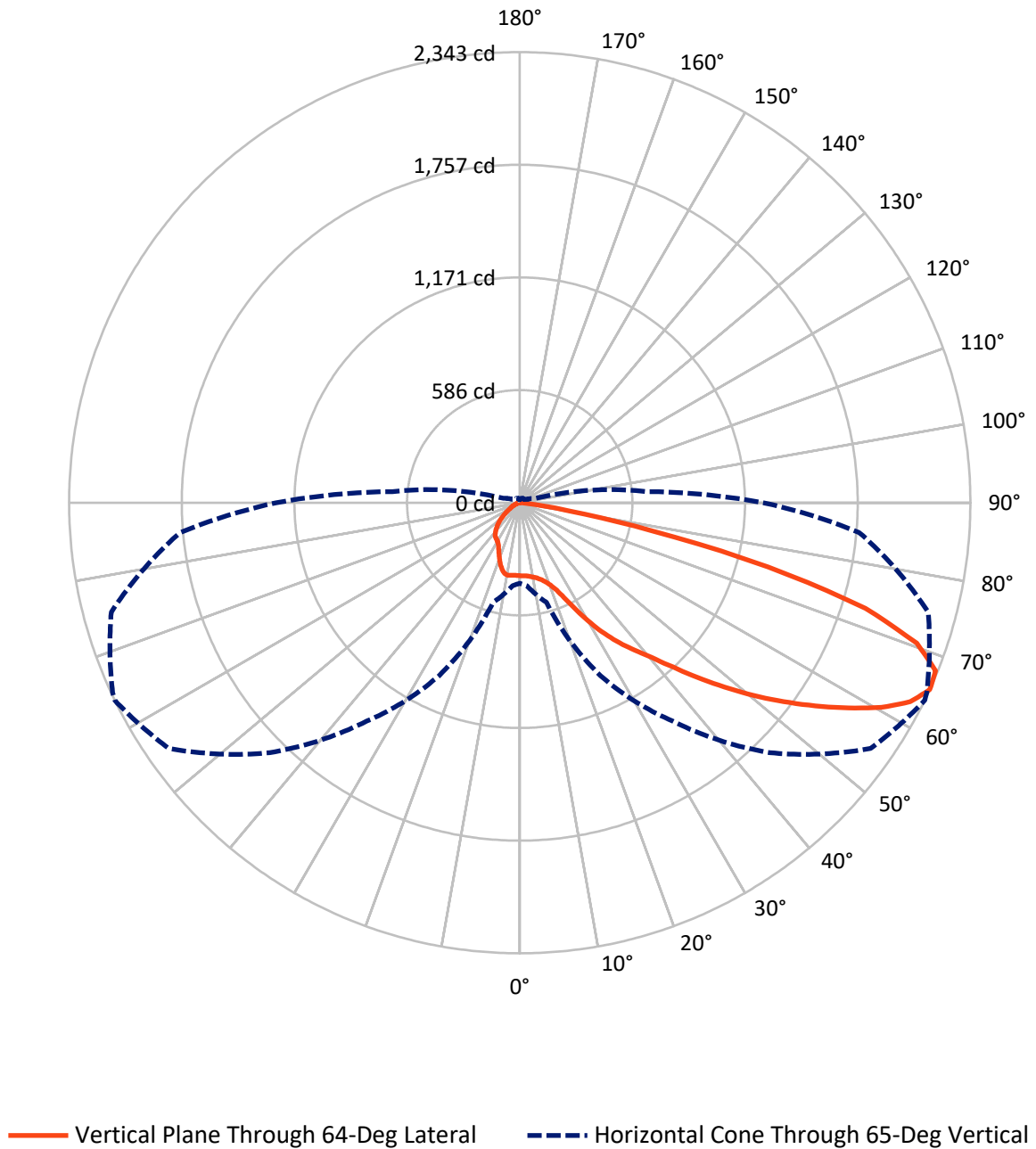
✕ Max cd
- - - 1/2 Max cd



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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	436.5	0.0	436.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	2827.5	0.0	2827.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	3264.0	0.0	3264.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.0	1.1
10°-20°	95.0	2.9
20°-30°	180.0	5.5
30°-40°	364.3	11.2
40°-50°	620.5	19.0
50°-60°	843.9	25.9
60°-70°	792.4	24.3
70°-80°	317.5	9.7
80°-90°	15.4	0.5
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°	3264.0	100.0
0°-180°	3264.0	100.0

Coefficient of Utilization



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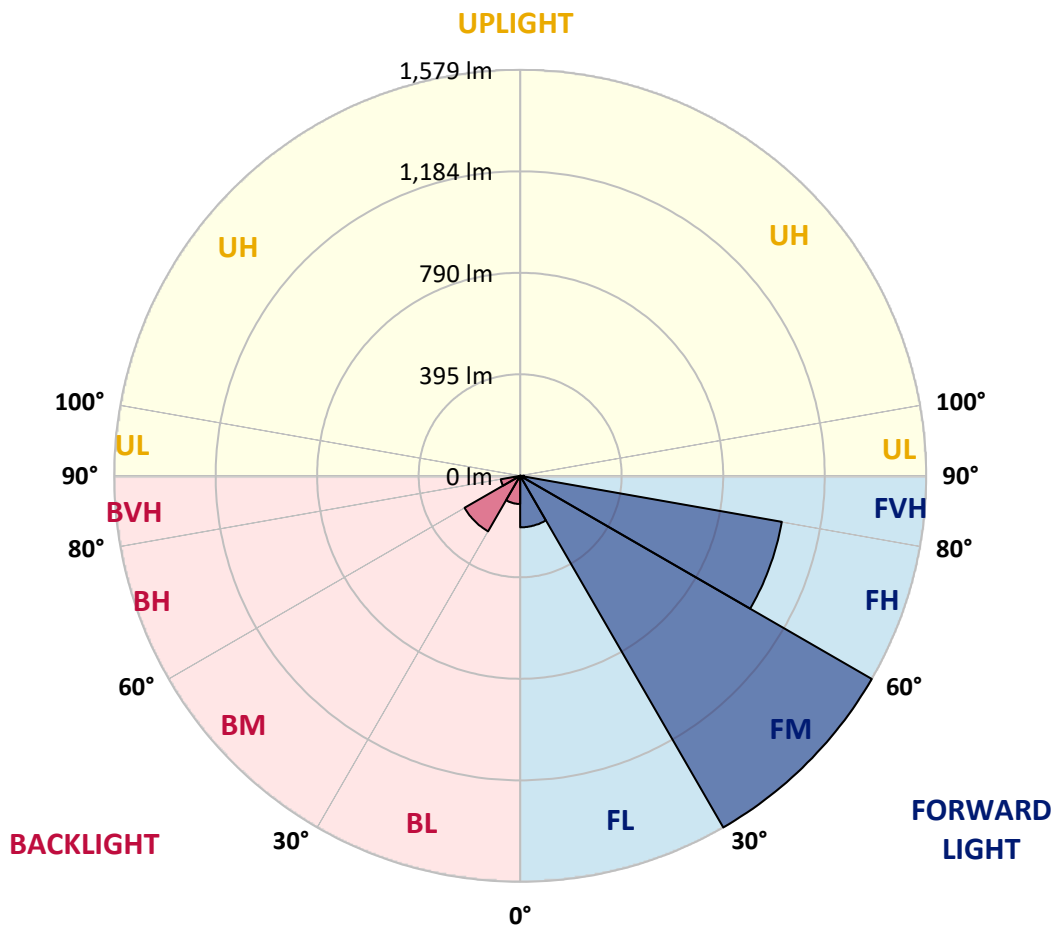
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	200.4	6.1			
FM	(30°-60°)	1579.1	48.4			
FH	(60°-80°)	1033.3	31.7			G1/1800
FVH	(80°-90°)	14.6	0.4			G1/100
BL	(0°-30°)	109.6	3.4	B0/110		
BM	(30°-60°)	249.5	7.6	B1/1000		
BH	(60°-80°)	76.6	2.3	B0/110		G0/110
BVH	(80°-90°)	0.8	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6
2.5°	378.3	380.9	380.3	379.6	379.4	379.9	380.1	379.9	379.9	379.9	380.1
5°	371.1	373.3	373.3	374.8	377.0	379.6	381.6	382.0	382.5	383.1	382.9
7.5°	357.3	359.1	360.4	365.4	370.9	377.9	383.8	386.9	387.3	389.7	390.6
10°	347.9	350.1	352.3	357.5	365.4	375.9	386.0	393.4	394.5	400.2	402.8
12.5°	347.5	349.7	352.5	358.2	367.4	378.5	390.8	401.5	403.5	411.8	417.3
15°	352.1	354.7	357.3	364.3	374.2	387.7	400.9	414.2	416.2	428.0	433.9
17.5°	361.5	365.0	366.9	373.9	384.5	399.5	416.8	432.2	433.9	447.7	455.1
20°	380.1	384.2	384.9	390.6	400.9	417.1	437.6	456.7	458.8	474.6	482.9
22.5°	418.6	424.5	419.2	422.1	431.3	447.5	469.8	493.9	496.9	514.9	522.3
25°	486.4	494.7	481.2	476.4	480.3	497.1	525.1	555.6	559.1	573.5	577.2
27.5°	619.7	609.0	588.4	568.3	556.4	566.1	597.6	635.2	639.6	653.6	649.2
30°	766.1	756.6	728.9	684.2	656.2	654.7	683.8	725.8	730.8	744.2	730.8
32.5°	912.7	903.7	873.5	818.6	770.0	745.9	766.1	812.7	815.3	823.8	804.1
35°	1056.9	1047.7	1017.5	961.2	901.5	846.8	842.9	895.4	896.2	905.2	875.9
37.5°	1201.9	1194.3	1162.1	1107.0	1048.1	972.6	936.1	973.7	974.8	983.6	953.1
40°	1305.4	1308.7	1286.6	1243.9	1193.4	1110.9	1040.7	1057.1	1050.5	1065.2	1047.0
42.5°	1394.3	1400.8	1381.6	1360.1	1330.8	1258.2	1170.2	1167.4	1156.9	1164.7	1145.9
45°	1471.1	1476.5	1459.3	1454.2	1453.6	1402.6	1311.8	1294.7	1280.0	1278.5	1256.0
47.5°	1499.3	1509.8	1517.2	1534.1	1566.9	1545.5	1458.2	1431.7	1415.3	1403.2	1367.6
50°	1510.0	1521.2	1546.6	1595.6	1673.2	1682.4	1603.9	1574.1	1554.0	1532.1	1479.6
52.5°	1495.6	1515.5	1549.6	1632.1	1744.8	1792.3	1743.7	1717.7	1694.7	1659.0	1581.1
55°	1410.5	1430.4	1500.2	1631.7	1780.5	1869.3	1875.9	1864.3	1838.5	1782.2	1663.2
57.5°	1231.0	1260.6	1371.1	1576.1	1779.8	1935.6	2005.4	2013.7	1984.8	1904.3	1727.7
60°	982.5	1022.5	1157.3	1452.9	1724.9	1971.5	2119.0	2160.5	2129.9	2024.7	1780.0
62.5°	685.5	731.9	859.5	1259.9	1599.3	1945.7	2201.9	2278.7	2255.5	2132.3	1800.2
65°	418.1	433.0	535.9	991.4	1385.7	1837.6	2227.5	2342.6	2334.9	2198.2	1770.4
67.5°	278.5	291.0	320.6	679.8	1075.7	1621.6	2166.2	2331.4	2333.6	2187.5	1661.4
70°	167.8	178.5	197.8	395.4	697.1	1283.5	1976.5	2189.2	2201.9	2044.1	1454.9
72.5°	69.1	76.4	93.9	179.2	361.0	814.6	1573.9	1879.6	1909.1	1718.8	1116.6
75°	39.2	42.9	55.1	89.9	156.7	379.6	953.4	1334.3	1377.9	1184.6	671.7
77.5°	26.0	27.8	35.7	58.2	88.2	129.5	407.4	695.2	778.3	647.0	290.8
80°	17.5	19.0	24.5	38.9	57.3	55.6	129.8	257.5	316.8	222.3	70.9
82.5°	11.8	12.0	17.5	25.6	36.3	26.9	38.3	80.1	100.7	64.3	26.9
85°	6.8	6.6	12.9	14.9	16.2	11.2	11.6	24.1	31.5	27.1	15.3
87.5°	0.9	1.3	5.0	3.9	2.2	2.4	2.4	4.2	6.1	6.6	3.3
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°	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6
2.5°	380.1	379.9	379.2	378.5	377.0	376.1	376.6	376.1	375.9	376.1	377.0
5°	382.9	382.3	380.5	378.3	375.3	371.5	369.1	365.6	362.4	360.4	360.8
7.5°	390.6	389.9	387.5	381.4	371.5	356.0	341.8	329.3	319.9	314.4	314.7
10°	402.8	401.7	398.0	384.5	358.6	324.7	296.5	273.1	257.8	250.5	249.9
12.5°	417.3	416.0	409.4	381.6	334.1	281.2	242.2	216.2	202.0	195.6	195.0
15°	434.3	432.6	419.7	368.0	298.5	233.0	197.4	177.9	168.7	163.0	163.2
17.5°	455.6	452.5	427.3	347.7	259.7	196.3	169.8	155.1	147.0	141.6	141.1
20°	483.1	478.1	433.5	323.4	224.1	173.1	151.2	138.9	132.8	128.0	127.1
22.5°	521.6	514.4	440.9	297.1	198.9	157.1	137.4	128.4	123.4	117.9	117.1
25°	569.3	560.8	450.1	272.9	181.6	143.3	127.3	119.9	114.0	107.7	107.0
27.5°	636.1	620.8	461.0	252.9	166.7	131.5	118.2	109.8	103.1	97.8	96.7
30°	710.5	685.3	470.7	240.9	153.2	120.6	106.1	97.8	91.5	87.7	87.1
32.5°	780.9	746.8	477.0	235.7	140.9	108.1	93.0	84.0	79.2	78.1	78.8
35°	847.5	802.4	476.4	230.6	130.0	95.6	80.1	70.9	67.2	67.8	67.8
37.5°	924.0	861.7	471.8	222.7	121.0	84.2	68.9	60.8	57.5	57.8	58.6
40°	1013.1	930.2	468.9	207.9	111.2	73.7	59.7	53.2	50.8	49.9	49.7
42.5°	1108.1	996.5	469.3	191.0	98.9	64.3	53.4	47.9	45.7	45.1	44.9
45°	1203.5	1059.7	470.0	173.5	86.0	57.1	48.8	44.2	42.9	42.0	42.0
47.5°	1293.2	1113.5	457.8	154.7	73.3	51.6	45.1	42.0	40.9	39.8	39.8
50°	1376.8	1149.4	428.2	132.8	63.2	47.3	42.2	40.0	38.9	37.9	37.9
52.5°	1441.7	1155.1	379.4	110.3	56.2	44.0	40.5	38.5	37.2	36.1	35.9
55°	1470.6	1119.4	310.1	89.3	50.8	41.1	38.7	36.8	35.2	34.1	33.9
57.5°	1463.2	1044.4	241.8	71.8	45.5	38.3	36.5	35.2	33.5	31.7	31.5
60°	1426.6	944.0	182.3	59.7	40.7	35.2	34.1	33.0	30.6	28.0	27.6
62.5°	1363.4	817.7	130.0	49.5	35.4	31.7	31.3	30.4	26.9	22.1	21.7
65°	1266.7	664.3	87.5	41.1	30.4	27.8	28.0	26.5	21.9	16.4	16.0
67.5°	1125.3	485.8	56.0	33.7	25.4	23.2	23.4	22.5	18.6	14.0	13.3
70°	945.3	321.7	36.5	25.6	20.3	17.9	19.3	19.5	15.8	11.4	10.9
72.5°	693.0	189.9	25.6	19.0	14.9	12.5	15.8	16.2	12.7	8.5	8.1
75°	395.0	90.2	19.3	13.8	9.2	8.8	12.3	12.3	8.8	5.7	5.3
77.5°	165.9	37.6	13.6	9.0	5.3	5.0	8.3	7.7	4.4	2.6	2.6
80°	47.9	16.8	7.2	4.4	2.2	2.0	3.3	2.4	1.1	0.4	0.4
82.5°	18.8	7.4	2.8	1.8	0.9	0.9	0.4	0.0	0.0	0.0	0.0
85°	11.2	3.1	1.3	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	0.7	0.4	0.0	0.0	0.0	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)