

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: P938891

Luminaire Tested: **GALN-SB1B-727-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3647 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 39.8
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



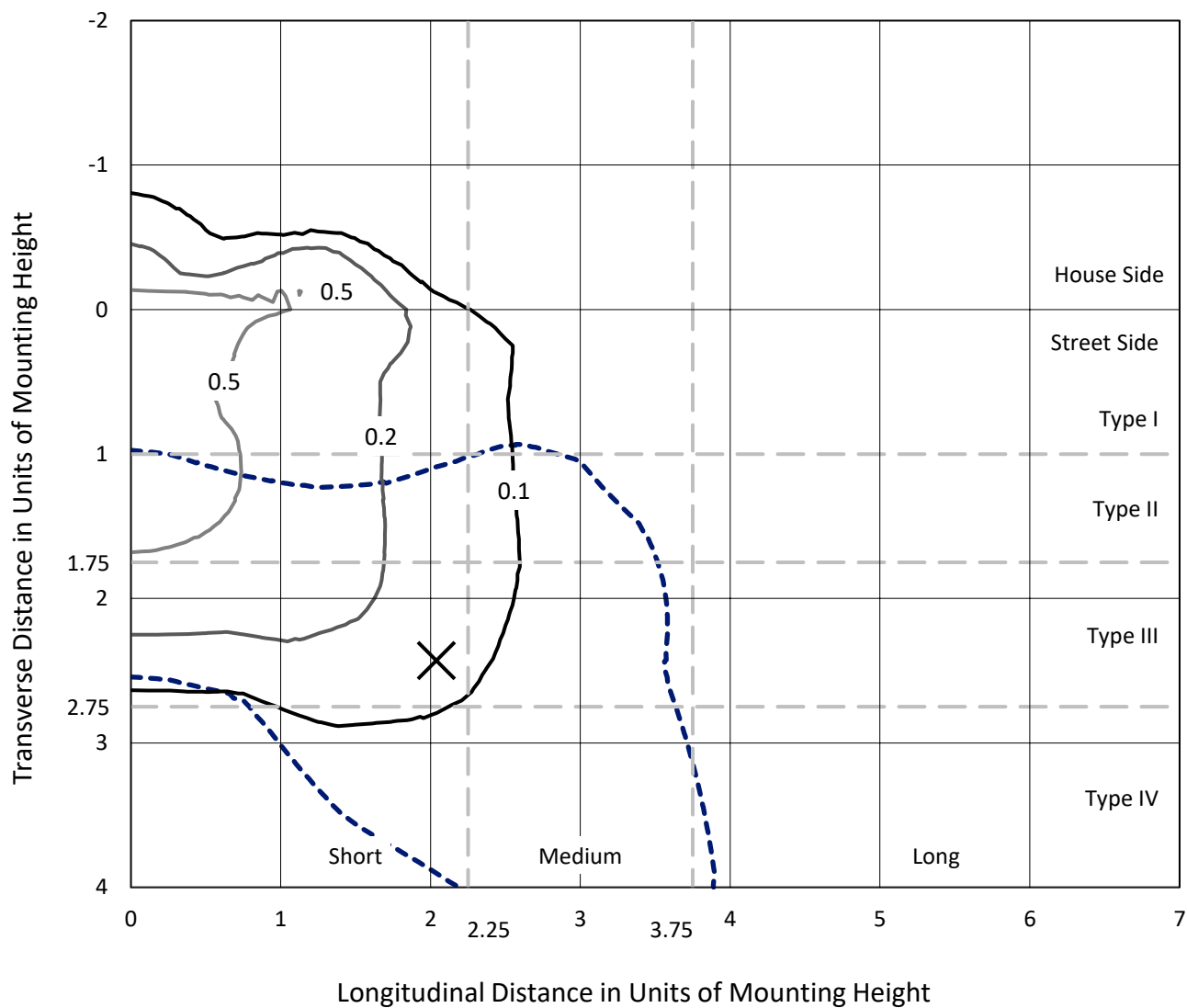
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

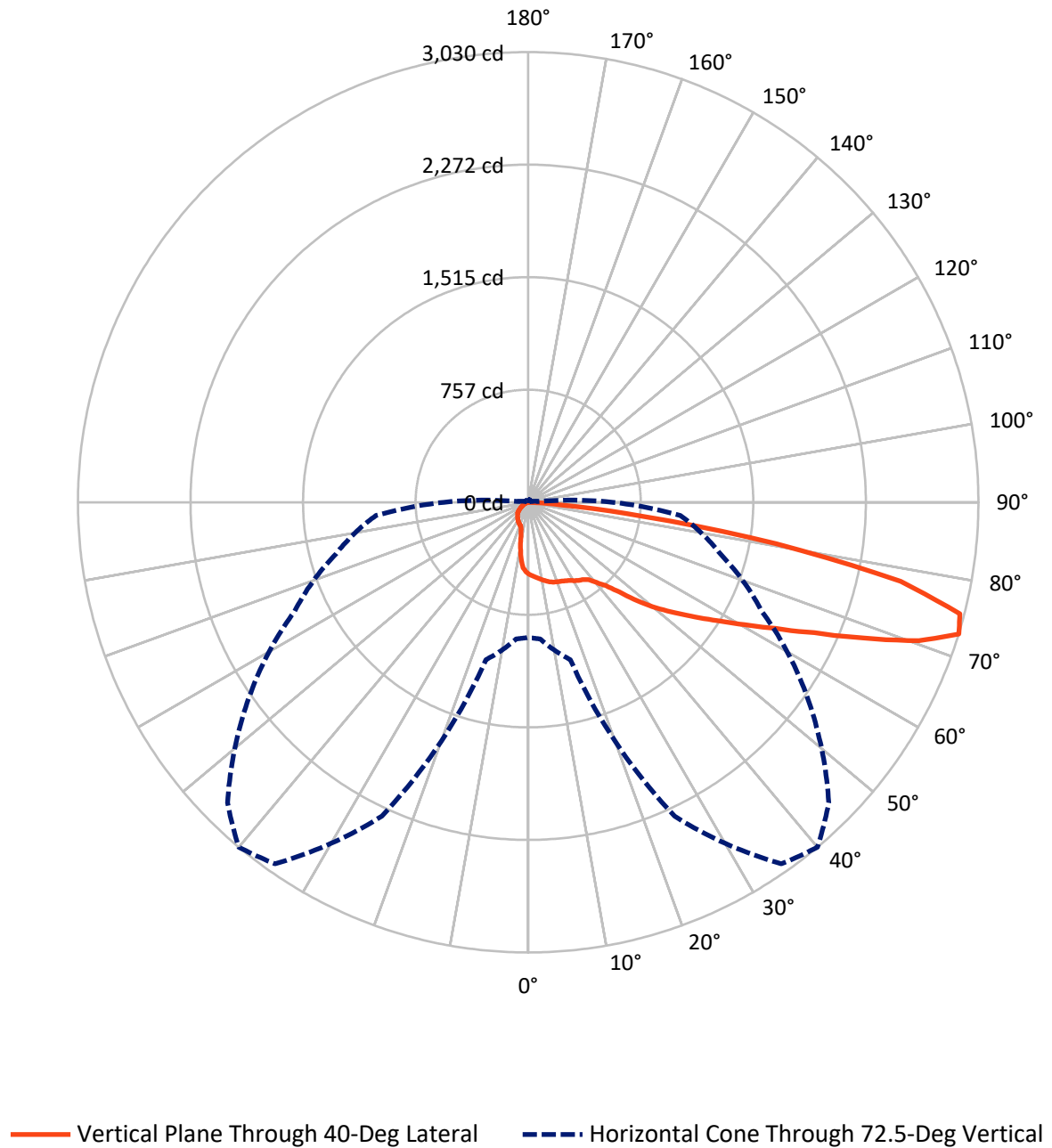


Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	471.0	0.0	471.0
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	3176.0	0.0	3176.0
	% Fixture	87.1	0.0	87.1
Total	Lumens	3647.0	0.0	3647.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	1.2
10°-20°	119.8	3.3
20°-30°	193.8	5.3
30°-40°	286.1	7.8
40°-50°	481.5	13.2
50°-60°	747.7	20.5
60°-70°	935.5	25.7
70°-80°	765.9	21.0
80°-90°	72.6	2.0
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°	3647.0	100.0
0°-180°	3647.0	100.0

Coefficient of Utilization



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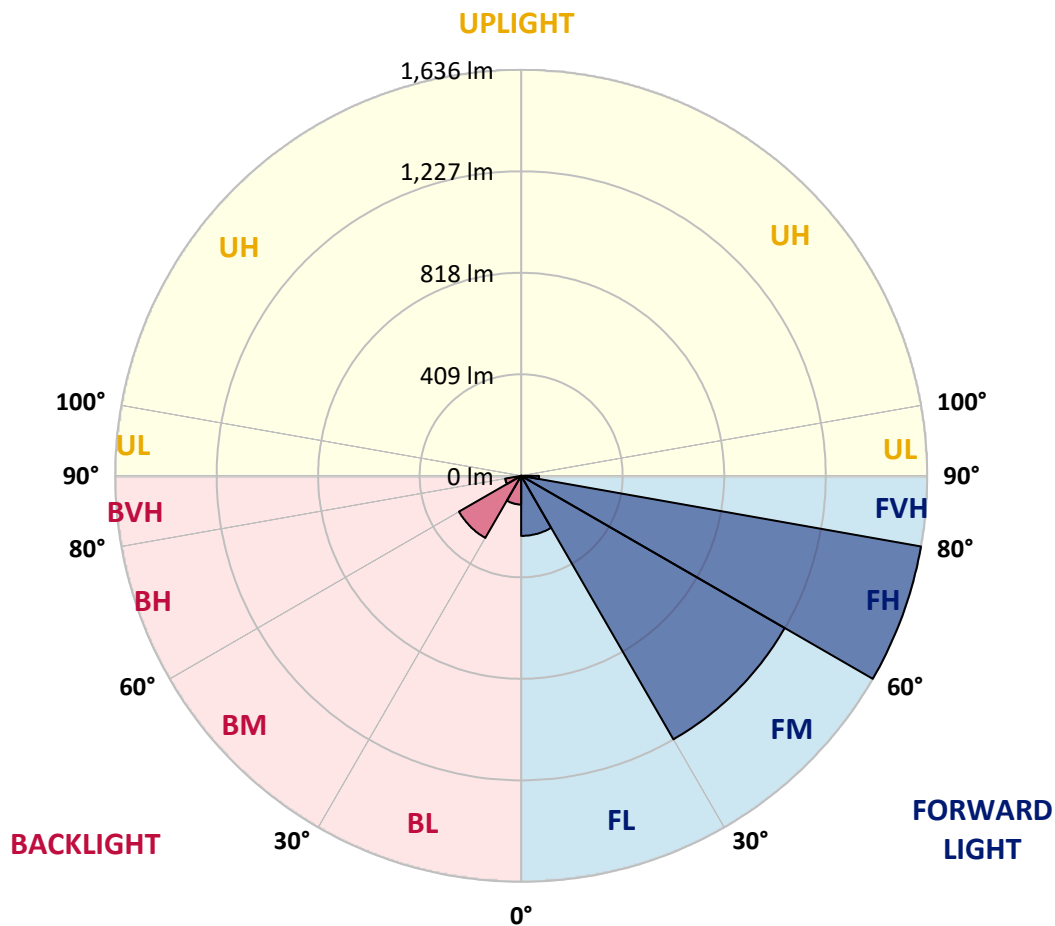
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	242.1	6.6			
FM	(30°-60°)	1226.1	33.6			
FH	(60°-80°)	1635.8	44.9			G1/1800
FVH	(80°-90°)	72.1	2.0			G1/100
BL	(0°-30°)	115.6	3.2	B1/500		
BM	(30°-60°)	289.2	7.9	B1/1000		
BH	(60°-80°)	65.6	1.8	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: B1-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9
2.5°	497.5	499.4	498.3	496.1	495.5	494.4	493.1	492.5	490.6	488.9	487.0
5°	511.5	513.4	512.0	509.0	507.6	506.2	504.3	502.7	498.8	495.3	490.9
7.5°	526.8	528.5	526.8	522.4	520.2	518.6	515.9	513.4	509.0	503.8	498.3
10°	543.9	545.2	542.8	537.0	533.4	531.0	528.5	525.7	521.6	515.9	509.3
12.5°	559.8	561.5	557.6	550.7	546.6	544.1	541.4	539.2	535.1	529.6	522.7
15°	574.4	576.8	570.2	562.8	558.2	556.2	553.5	552.1	549.4	545.5	539.2
17.5°	585.3	587.0	580.1	571.3	566.1	564.7	562.8	563.6	563.1	561.2	557.1
20°	594.7	595.8	586.7	576.0	570.2	570.5	570.0	572.7	573.8	573.8	573.5
22.5°	606.2	606.5	595.0	581.5	574.6	576.6	577.4	580.4	582.6	584.8	589.7
25°	621.3	620.8	607.0	588.6	582.6	585.3	587.3	588.4	590.8	594.4	605.7
27.5°	643.9	642.2	624.6	600.2	593.0	595.5	599.1	598.5	597.4	600.2	619.1
30°	672.4	670.2	646.9	616.4	609.8	612.0	613.1	608.1	600.2	602.7	630.9
32.5°	717.7	713.9	681.5	634.5	624.4	626.8	625.5	615.3	603.5	606.0	642.8
35°	796.6	787.2	741.4	672.4	640.8	638.1	634.8	624.9	610.3	607.9	652.6
37.5°	964.1	947.7	869.4	746.3	678.2	660.3	650.2	640.3	617.8	607.9	663.9
40°	1153.1	1136.4	1046.0	869.9	740.3	710.1	685.9	658.4	625.5	611.4	681.5
42.5°	1350.3	1331.9	1239.1	1023.2	829.0	766.9	721.9	673.0	638.1	622.4	704.8
45°	1570.6	1547.6	1426.2	1183.1	957.8	861.4	779.8	702.9	660.1	641.9	736.7
47.5°	1803.0	1773.1	1612.7	1338.3	1096.5	992.2	885.9	756.5	692.5	671.1	779.8
50°	2009.0	1979.4	1805.2	1500.6	1226.2	1116.6	1006.7	830.6	741.1	712.3	837.8
52.5°	2157.1	2134.6	1980.5	1668.1	1361.1	1233.3	1116.3	916.9	802.6	765.0	906.2
55°	2256.2	2235.6	2104.6	1826.9	1517.9	1361.9	1224.3	1010.6	876.8	828.2	981.7
57.5°	2316.4	2304.6	2194.4	1968.7	1673.4	1502.5	1347.9	1113.6	964.1	902.6	1066.0
60°	2337.8	2328.2	2250.2	2103.8	1861.3	1671.4	1493.2	1229.8	1070.2	987.2	1152.6
62.5°	2280.7	2282.6	2290.3	2263.9	2059.3	1869.2	1667.3	1369.3	1187.7	1083.1	1233.9
65°	2011.8	2027.7	2173.8	2441.4	2321.6	2117.0	1889.0	1539.6	1322.3	1192.1	1298.4
67.5°	1665.7	1688.7	1870.6	2545.2	2601.2	2438.6	2197.7	1756.6	1482.7	1303.1	1322.9
70°	1275.1	1299.8	1520.1	2523.5	2863.0	2790.2	2579.5	2032.7	1648.9	1380.0	1260.5
72.5°	910.0	922.7	1096.3	2330.4	2970.4	3029.8	2860.8	2294.2	1733.8	1337.4	1028.1
75°	639.5	637.3	752.4	1876.6	2803.1	3000.6	2762.2	2152.7	1569.0	1062.5	634.0
77.5°	278.5	279.1	375.8	1139.7	2237.3	2562.8	2296.1	1348.4	1093.8	563.1	267.5
80°	72.2	74.4	137.9	453.8	1347.0	1691.5	1400.3	592.8	505.4	137.3	51.1
82.5°	25.5	27.2	63.5	142.6	496.9	775.7	623.5	189.5	131.8	39.3	13.7
85°	7.4	8.8	34.1	43.7	102.7	219.2	151.4	36.8	32.4	20.3	3.6
87.5°	0.0	1.1	6.9	6.0	6.0	4.1	7.7	4.1	5.2	2.5	1.1
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°	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9
2.5°	485.4	483.4	479.3	474.9	470.8	467.0	465.9	461.7	459.8	460.1	459.8
5°	487.8	484.3	476.3	466.7	456.8	445.5	436.2	423.0	411.7	410.4	409.6
7.5°	494.4	488.7	475.8	457.1	432.4	401.3	372.5	343.9	327.7	318.9	318.4
10°	504.6	496.9	477.1	441.4	389.0	333.5	289.8	253.8	235.4	226.9	225.2
12.5°	516.7	508.2	479.3	414.8	332.9	260.1	212.9	190.9	187.1	186.5	186.2
15°	533.7	524.4	481.8	378.8	272.2	198.0	176.3	176.6	179.6	181.3	181.0
17.5°	552.7	543.3	478.2	334.8	212.3	169.2	168.7	171.1	175.5	177.2	176.9
20°	571.9	563.1	465.6	283.2	171.7	161.2	163.4	166.2	170.6	172.8	172.8
22.5°	591.7	584.0	445.5	228.3	154.9	155.5	158.2	161.0	165.9	168.4	168.4
25°	612.8	606.2	418.9	182.9	147.8	149.4	153.0	156.3	161.5	164.5	164.5
27.5°	634.2	629.3	388.7	152.7	141.2	143.1	147.2	151.6	156.8	160.4	160.7
30°	657.6	654.8	364.5	141.5	134.9	136.5	141.2	146.1	151.9	156.3	156.8
32.5°	681.5	680.9	352.7	149.7	129.1	130.2	134.3	139.3	146.4	151.9	152.4
35°	705.1	706.2	345.8	173.1	127.2	124.2	126.9	131.3	139.8	146.7	147.8
37.5°	735.3	738.1	345.6	198.3	131.8	118.1	120.0	123.1	130.5	138.4	139.8
40°	780.4	794.9	363.1	220.0	140.1	112.6	113.2	113.7	117.6	124.2	126.4
42.5°	840.3	882.8	426.6	234.9	143.4	107.7	105.8	102.7	102.2	105.8	107.7
45°	914.7	989.1	538.1	243.1	140.1	102.2	97.0	89.0	86.0	88.4	88.4
47.5°	1002.3	1105.6	670.2	245.0	134.6	95.3	86.0	75.5	73.1	73.9	73.6
50°	1087.7	1192.9	786.4	229.1	125.5	86.5	73.9	65.1	63.5	63.7	63.7
52.5°	1163.3	1222.9	819.4	191.5	113.4	75.8	63.5	57.4	56.3	56.3	56.0
55°	1213.3	1190.5	730.7	146.4	98.3	64.8	54.4	51.4	50.8	50.5	50.0
57.5°	1223.7	1085.0	551.8	105.8	76.9	54.7	48.3	46.7	45.6	44.5	43.9
60°	1186.4	909.2	351.3	73.9	57.7	46.7	42.9	41.8	39.6	37.4	36.5
62.5°	1105.6	686.7	194.5	51.4	46.4	39.8	37.9	36.5	32.4	28.8	27.7
65°	997.1	456.5	86.0	40.1	37.9	33.5	32.4	30.5	25.5	21.4	20.6
67.5°	888.0	262.9	38.7	32.1	30.5	27.5	26.6	25.3	21.7	17.9	17.3
70°	763.6	133.2	26.6	25.5	23.6	20.9	21.7	21.4	17.9	14.6	14.0
72.5°	568.6	66.2	20.1	19.2	17.0	14.8	17.9	17.6	14.0	11.0	10.4
75°	321.9	32.7	14.6	13.5	10.2	11.0	14.3	13.5	9.6	7.1	6.6
77.5°	127.7	16.8	9.6	8.2	6.0	7.4	10.4	9.1	4.9	3.0	2.7
80°	29.4	8.2	4.9	3.6	2.7	4.4	5.5	3.3	1.4	0.3	0.0
82.5°	8.2	3.6	1.6	1.4	1.4	1.6	1.4	0.5	0.0	0.0	0.0
85°	2.7	1.6	0.5	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	1.1	0.5	0.0	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)