

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: P945210

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
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-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4455 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

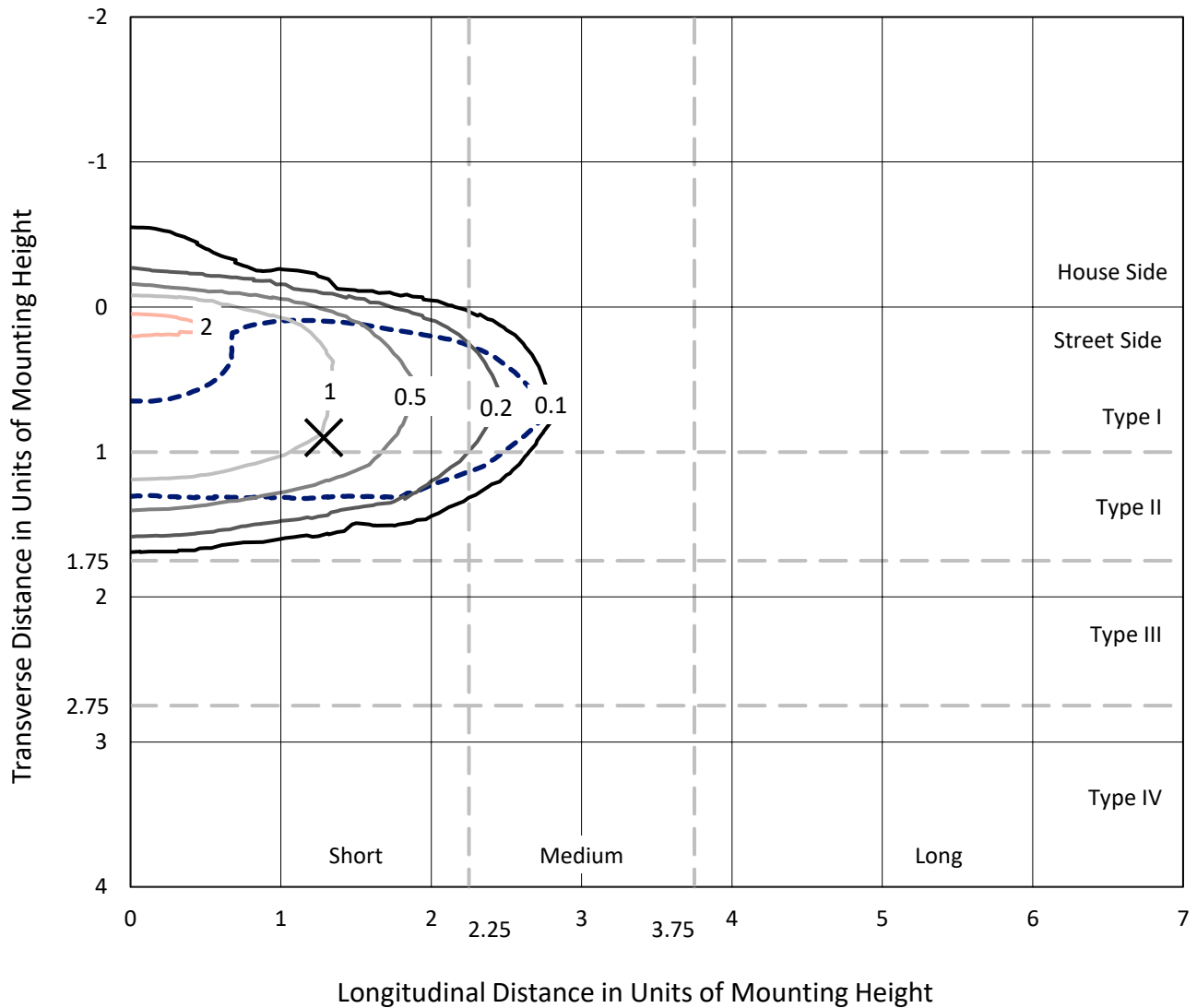
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945210
 CATALOG NUMBER: GALN-SB1B-727-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

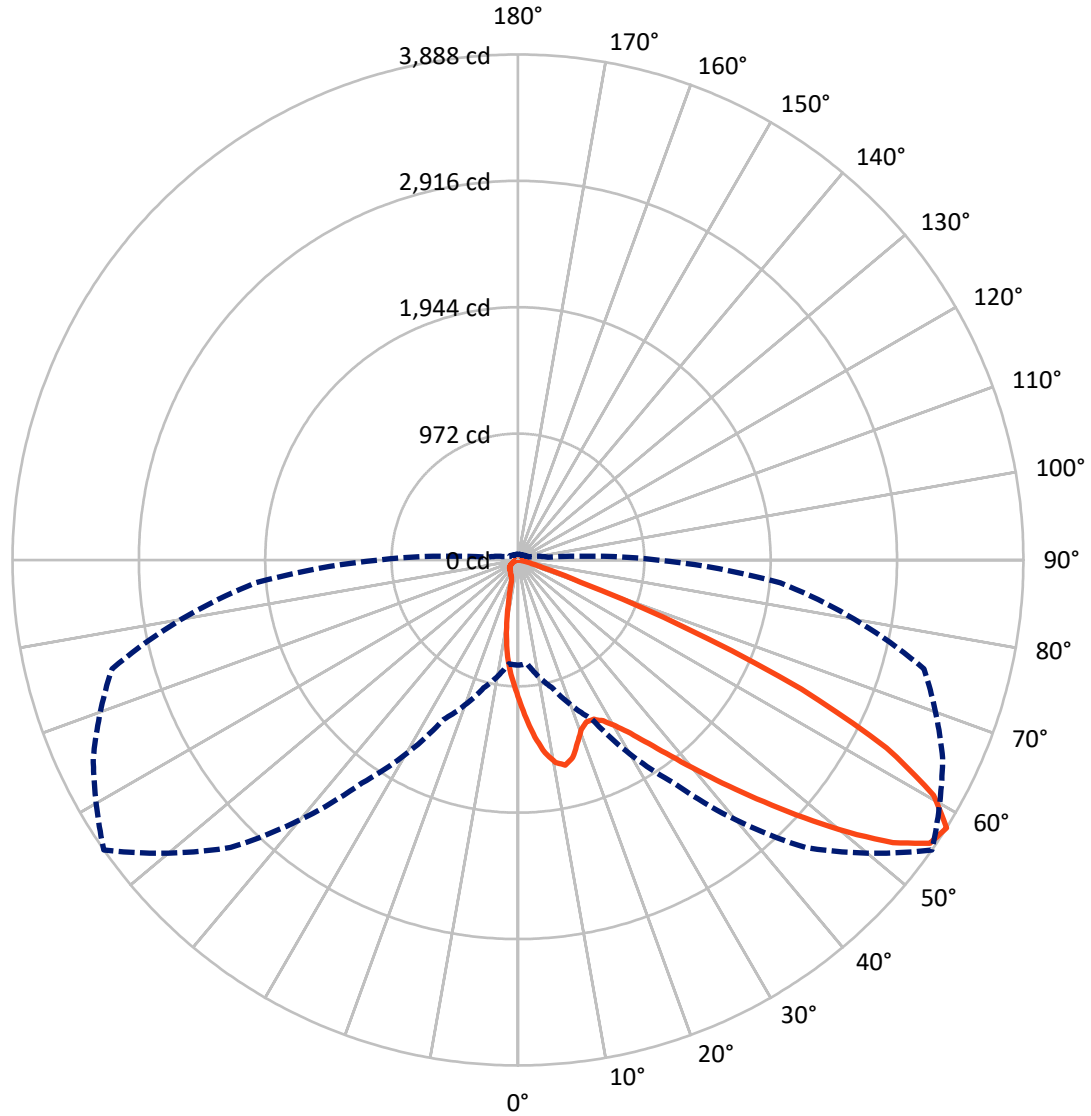
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

REPORT NUMBER: P945210
CATALOG NUMBER: GALN-SB1B-727-U-AFL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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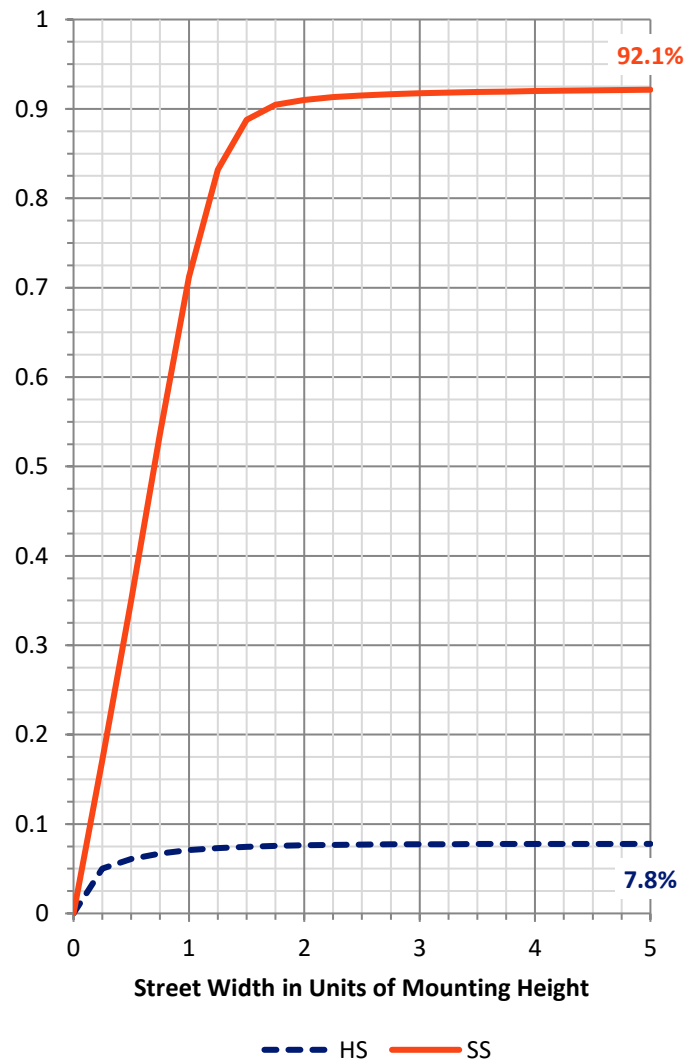
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	347.9	0.0	347.9
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	4107.1	0.0	4107.1
	% Fixture	92.2	0.0	92.2
Total	Lumens	4455.0	0.0	4455.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	2.2
10°-20°	241.3	5.4
20°-30°	386.0	8.7
30°-40°	653.4	14.7
40°-50°	1072.7	24.1
50°-60°	1179.0	26.5
60°-70°	676.3	15.2
70°-80°	138.2	3.1
80°-90°	8.1	0.2
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°	4455.0	100.0
0°-180°	4455.0	100.0

Coefficient of Utilization



REPORT NUMBER: P945210

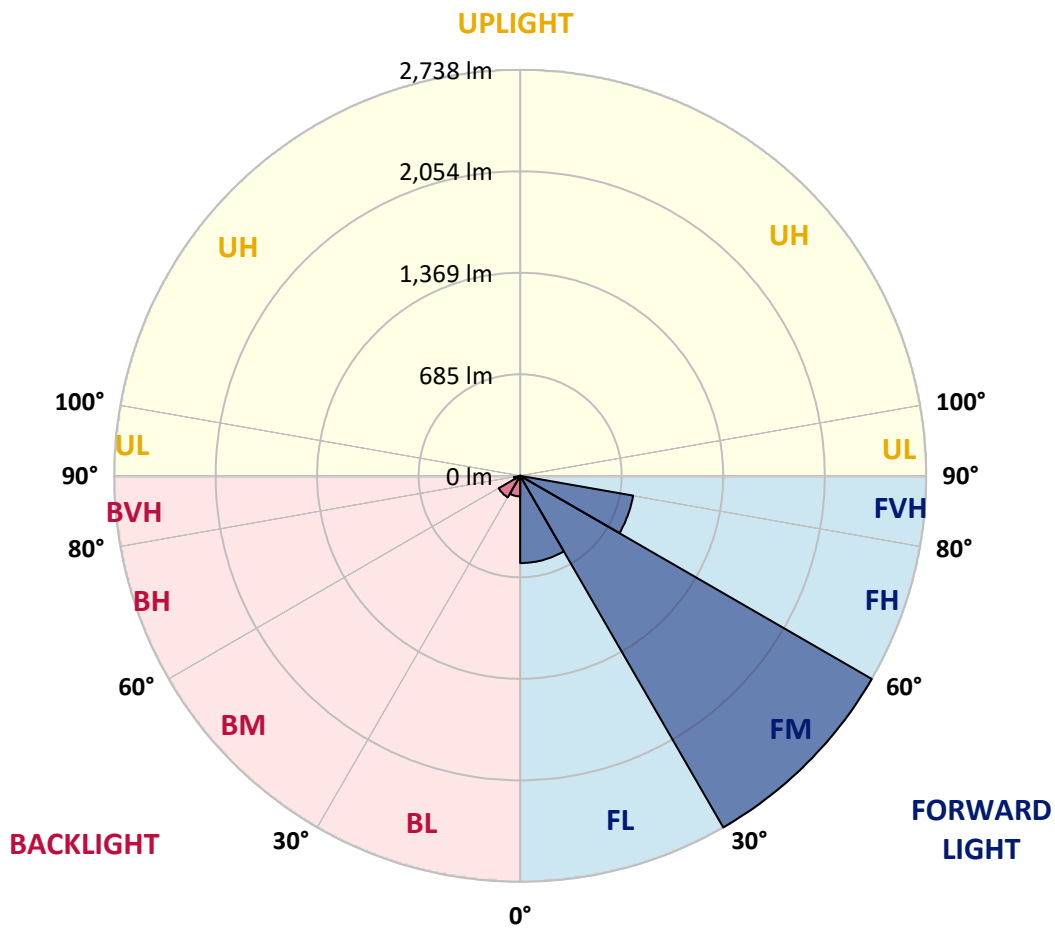
CATALOG NUMBER: GALN-SB1B-727-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	588.3	13.2			
FM (30°-60°)	2738.1	61.5			
FH (60°-80°)	773.1	17.4			G1/1800
FVH (80°-90°)	7.6	0.2			G0/10
BL (0°-30°)	138.9	3.1	B1/500		
BM (30°-60°)	167.1	3.8	B0/220		
BH (60°-80°)	41.4	0.9	B0/110		G0/110
BVH (80°-90°)	0.5	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 II Short



REPORT NUMBER: P945210
 CATALOG NUMBER: GALN-SB1B-727-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1073.5	1073.5	1073.5	1073.5	1073.5	1073.5	1073.5	1073.5	1073.5	1073.5	1073.5
2.5°	1332.0	1315.3	1312.8	1309.5	1277.7	1253.8	1219.1	1181.2	1138.7	1095.2	1076.0
5°	1538.9	1525.7	1523.2	1507.9	1471.6	1430.9	1369.4	1291.7	1212.3	1118.9	1078.8
7.5°	1579.0	1576.5	1587.8	1587.2	1582.3	1550.2	1498.2	1405.7	1286.4	1148.0	1085.9
10°	1400.2	1406.5	1440.0	1469.4	1548.8	1594.9	1583.7	1507.3	1362.8	1181.2	1093.9
12.5°	1237.3	1229.9	1253.8	1287.0	1379.3	1516.6	1619.1	1592.2	1450.2	1218.9	1105.7
15°	1135.1	1132.1	1145.5	1160.9	1231.2	1369.7	1577.9	1661.1	1534.2	1263.4	1123.5
17.5°	1102.4	1099.9	1104.0	1107.9	1153.5	1260.6	1479.8	1703.4	1614.7	1314.2	1143.3
20°	1129.0	1125.7	1125.2	1122.2	1141.1	1214.2	1391.1	1706.5	1687.0	1360.3	1160.4
22.5°	1206.8	1202.9	1189.5	1177.4	1179.0	1220.5	1351.5	1676.2	1741.4	1403.5	1171.1
25°	1347.7	1341.4	1313.4	1272.7	1246.9	1264.5	1357.6	1636.4	1793.3	1437.3	1165.8
27.5°	1524.1	1515.8	1479.8	1419.4	1360.3	1338.9	1401.3	1608.9	1836.4	1463.1	1154.6
30°	1696.8	1686.1	1650.7	1603.7	1517.5	1449.9	1480.1	1621.0	1887.8	1490.0	1139.7
32.5°	1883.4	1873.2	1826.2	1768.0	1696.6	1605.6	1588.1	1680.1	1950.7	1527.6	1129.3
35°	2119.3	2103.4	2036.7	1957.3	1881.5	1789.4	1734.2	1782.0	2034.5	1585.0	1135.1
37.5°	2388.0	2366.6	2294.6	2185.0	2086.1	1983.1	1912.2	1922.1	2157.3	1662.0	1152.9
40°	2641.3	2621.8	2555.3	2452.0	2327.8	2202.9	2127.3	2105.3	2326.7	1755.6	1184.3
42.5°	2793.2	2775.6	2747.6	2703.9	2599.3	2471.8	2376.5	2328.9	2527.3	1867.7	1222.4
45°	2801.7	2786.3	2824.0	2874.8	2854.2	2769.3	2653.1	2566.0	2728.6	1972.9	1262.0
47.5°	2665.5	2655.0	2769.3	2946.8	3035.2	3070.9	2963.8	2783.3	2894.8	2048.5	1278.2
50°	2294.1	2290.2	2525.4	2851.2	3104.2	3335.2	3291.5	2985.5	3023.7	2087.5	1262.8
52.5°	1989.1	1975.1	2112.2	2545.1	3003.9	3474.2	3611.8	3183.8	3113.8	2094.9	1226.8
55°	1508.7	1496.3	1668.3	2033.1	2680.6	3424.7	3846.1	3388.5	3178.3	2075.9	1162.3
57.5°	809.3	801.6	1018.9	1353.2	2095.4	3128.1	3888.4	3604.9	3232.7	2025.7	1071.9
60°	315.1	313.7	395.0	656.5	1273.5	2544.9	3675.0	3734.9	3266.8	1963.9	996.4
62.5°	190.6	194.8	208.0	294.8	562.6	1580.9	3183.0	3587.1	3289.6	1907.3	934.0
65°	157.7	158.0	159.6	202.5	269.5	661.5	2396.2	3100.9	3233.3	1806.5	845.5
67.5°	135.2	137.6	143.9	160.7	190.1	290.1	1379.6	2402.0	2890.7	1571.9	707.6
70°	106.6	109.9	117.8	132.1	146.7	181.6	509.9	1598.2	2208.3	1184.8	535.1
72.5°	89.8	89.6	93.7	107.4	116.5	127.7	196.1	895.5	1283.4	565.6	264.8
75°	69.5	72.2	77.5	89.8	95.3	92.6	106.3	327.2	459.9	171.4	90.1
77.5°	54.4	56.6	61.3	73.3	78.8	65.7	61.3	117.0	147.8	61.5	40.7
80°	24.4	26.4	41.8	54.1	64.3	45.3	33.2	59.9	65.7	28.0	20.6
82.5°	4.4	7.4	24.4	28.6	33.0	29.4	17.3	31.0	32.1	11.3	7.1
85°	0.3	0.5	8.5	10.4	13.2	9.6	5.2	12.4	10.7	3.8	2.7
87.5°	0.0	0.0	0.0	0.3	0.3	1.4	1.6	2.2	1.6	1.4	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

REPORT NUMBER: P945210
 CATALOG NUMBER: GALN-SB1B-727-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1073.5	1073.5	1073.5	1073.5	1073.5	1073.5	1073.5	1073.5	1073.5	1073.5
2.5°	1056.2	1017.2	979.3	948.3	930.1	899.4	879.1	875.8	867.2	874.7
5°	1035.9	966.1	895.5	832.4	780.4	713.4	663.4	642.3	623.9	630.2
7.5°	1026.3	916.1	806.3	698.3	587.3	480.2	400.5	367.3	342.0	345.6
10°	1013.4	864.2	692.0	527.2	378.5	272.8	217.8	197.5	186.2	186.5
12.5°	1003.5	802.1	559.3	357.4	230.5	174.2	157.1	152.2	148.9	149.2
15°	998.6	729.1	428.3	238.2	164.8	147.5	143.4	141.2	139.0	138.7
17.5°	990.3	647.8	313.4	173.9	144.2	138.2	134.6	132.1	129.4	128.8
20°	977.9	555.5	229.1	147.0	135.2	130.5	125.5	122.2	118.9	118.4
22.5°	955.1	457.9	176.1	136.0	128.6	123.3	117.3	113.5	110.2	109.6
25°	912.8	366.5	148.3	129.1	122.8	116.5	109.9	104.7	101.6	101.1
27.5°	859.3	287.9	134.6	122.8	115.4	109.6	102.2	97.2	94.5	93.9
30°	796.1	221.7	126.6	115.7	106.6	101.6	95.0	90.9	89.3	89.3
32.5°	728.0	177.2	123.3	108.5	98.9	93.4	88.2	86.5	86.0	85.7
35°	664.0	153.8	121.7	102.7	92.0	86.8	84.6	84.9	86.0	86.0
37.5°	607.1	146.4	120.9	98.6	86.0	81.3	82.7	85.2	84.1	84.1
40°	555.7	147.2	120.3	95.6	81.0	78.3	81.0	79.1	76.4	76.1
42.5°	516.4	154.1	119.2	93.1	78.0	76.1	75.0	72.0	71.7	72.2
45°	487.9	160.2	118.9	92.0	74.7	71.1	69.8	66.8	72.2	73.6
47.5°	454.1	160.2	118.9	88.2	69.2	67.9	65.7	62.4	67.9	69.2
50°	410.4	150.0	114.3	83.8	64.8	64.0	60.2	56.0	54.9	55.8
52.5°	355.2	131.6	102.5	77.7	60.4	58.8	54.1	51.1	50.3	50.3
55°	292.3	110.2	86.5	69.0	55.8	52.7	49.4	48.1	47.2	46.7
57.5°	237.6	90.4	69.5	61.3	51.4	47.5	46.4	44.8	43.4	42.6
60°	195.0	71.1	57.4	54.4	47.0	43.4	43.1	40.9	37.4	36.8
62.5°	150.5	52.2	48.3	47.2	42.6	39.6	39.0	34.6	29.1	28.0
65°	106.3	40.7	39.0	41.5	37.9	35.2	33.8	27.2	21.4	20.6
67.5°	74.7	34.1	30.8	36.3	33.0	29.4	28.6	23.1	17.9	17.3
70°	53.3	27.7	25.3	31.0	26.4	25.8	24.2	19.2	14.6	14.0
72.5°	37.6	21.2	19.5	26.9	18.1	22.3	19.8	14.8	11.0	10.4
75°	27.7	15.1	13.7	15.7	13.2	16.8	14.0	9.9	6.9	6.6
77.5°	20.3	9.6	8.2	7.7	7.7	10.4	7.7	4.1	3.0	2.7
80°	14.3	4.4	3.8	3.3	3.0	2.5	1.1	0.5	0.3	0.3
82.5°	8.5	1.9	1.9	1.4	0.8	0.0	0.0	0.0	0.0	0.0
85°	1.9	0.8	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.3	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

(END OF REPORT)