

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: P945567

Luminaire Tested: **GALN-SB1C-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945567
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-SB1C-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5925 lumens
Efficiency: N/A
Efficacy: 108.9 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): 54.4
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



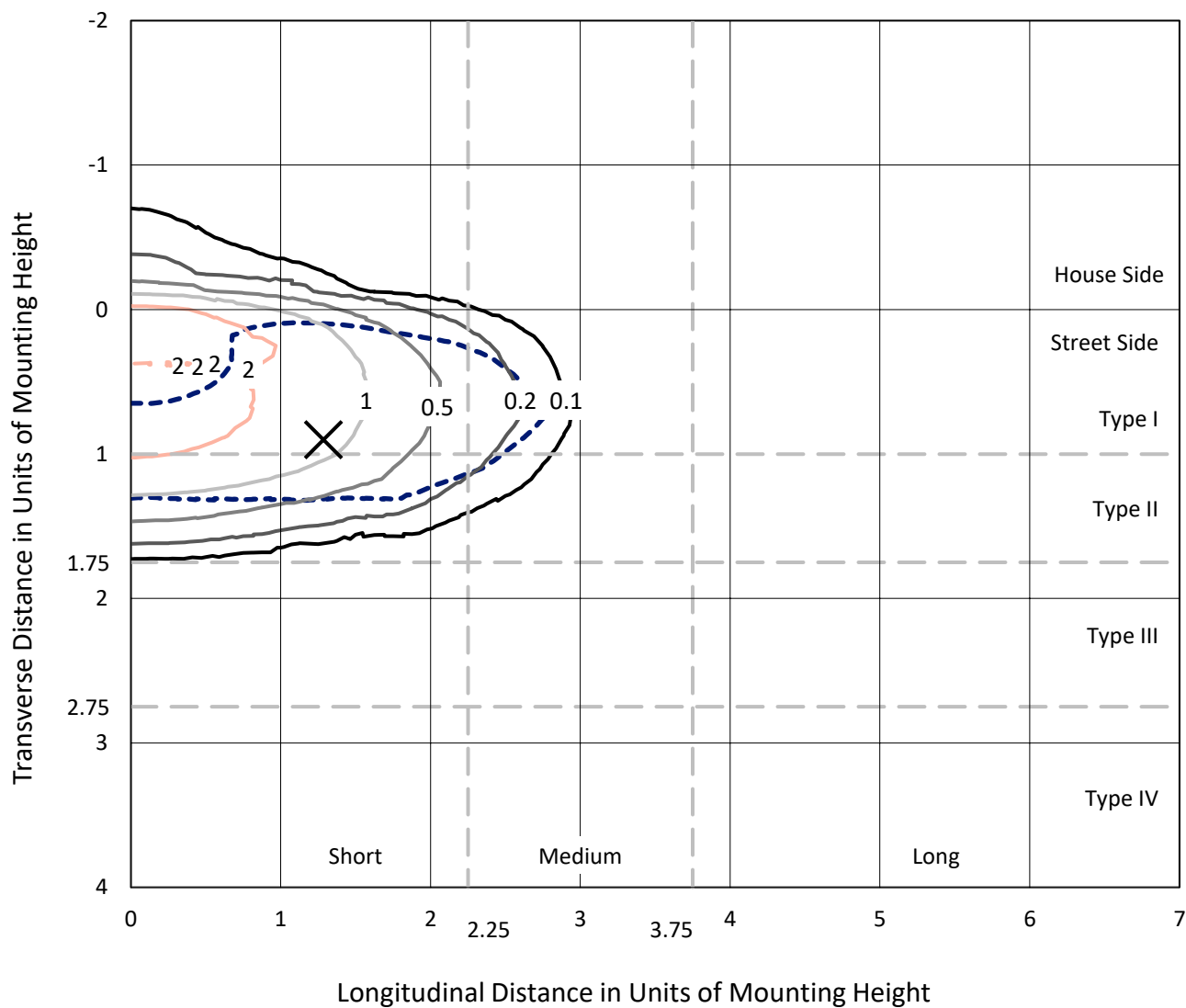
REPORT NUMBER: P945567

CATALOG NUMBER: GALN-SB1C-727-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

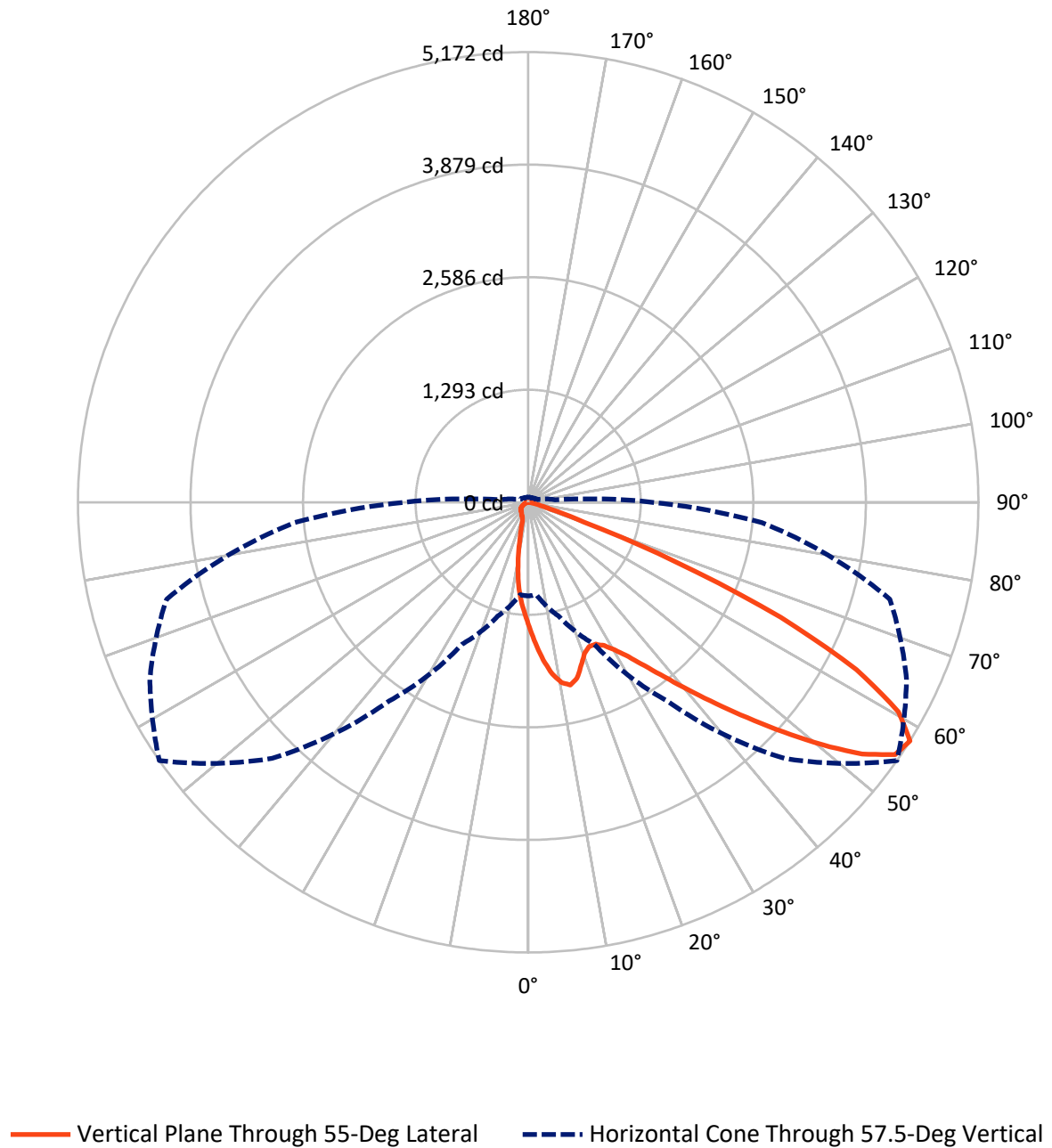


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc

Type II - Short - N/A

REPORT NUMBER: P945567
CATALOG NUMBER: GALN-SB1C-727-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P945567

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	462.7	0.0	462.7
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	5462.3	0.0	5462.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	5925.0	0.0	5925.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.8	2.2
10°-20°	320.9	5.4
20°-30°	513.4	8.7
30°-40°	869.0	14.7
40°-50°	1426.7	24.1
50°-60°	1568.1	26.5
60°-70°	899.4	15.2
70°-80°	183.8	3.1
80°-90°	10.8	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°	5925.0	100.0
0°-180°	5925.0	100.0

Coefficient of Utilization



REPORT NUMBER: P945567

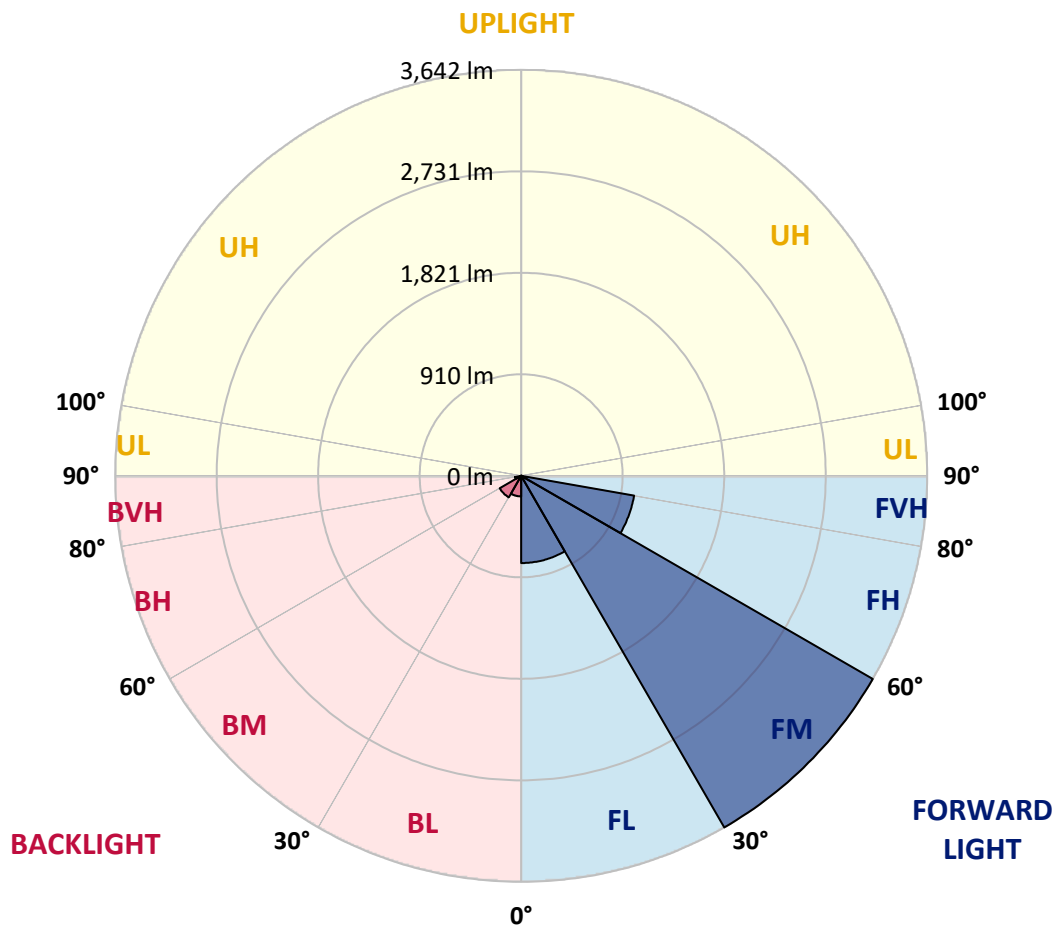
CATALOG NUMBER: GALN-SB1C-727-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	782.4	13.2			
FM	(30°-60°)	3641.6	61.5			
FH	(60°-80°)	1028.2	17.4			G1/1800
FVH	(80°-90°)	10.1	0.2			G1/100
BL	(0°-30°)	184.7	3.1	B1/500		
BM	(30°-60°)	222.2	3.8	B1/1000		
BH	(60°-80°)	55.0	0.9	B0/110		G0/110
BVH	(80°-90°)	0.7	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: P945567

CATALOG NUMBER: GALN-SB1C-727-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1427.8	1427.8	1427.8	1427.8	1427.8	1427.8	1427.8	1427.8	1427.8	1427.8	1427.8
2.5°	1771.6	1749.3	1746.0	1741.6	1699.2	1667.4	1621.4	1571.0	1514.4	1456.6	1431.1
5°	2046.7	2029.1	2025.9	2005.4	1957.2	1903.1	1821.3	1717.9	1612.3	1488.1	1434.7
7.5°	2100.0	2096.7	2111.7	2111.0	2104.4	2061.7	1992.6	1869.5	1710.9	1526.8	1444.2
10°	1862.2	1870.6	1915.2	1954.2	2059.8	2121.2	2106.2	2004.7	1812.5	1571.0	1454.8
12.5°	1645.5	1635.7	1667.4	1711.7	1834.4	2017.1	2153.4	2117.6	1928.7	1621.0	1470.5
15°	1509.6	1505.6	1523.5	1544.0	1637.5	1821.6	2098.6	2209.3	2040.5	1680.2	1494.3
17.5°	1466.1	1462.9	1468.3	1473.4	1534.1	1676.6	1968.1	2265.5	2147.5	1747.8	1520.6
20°	1501.6	1497.2	1496.5	1492.4	1517.7	1614.8	1850.1	2269.5	2243.6	1809.2	1543.2
22.5°	1605.0	1599.9	1582.0	1565.9	1568.1	1623.2	1797.5	2229.4	2315.9	1866.6	1557.5
25°	1792.4	1784.0	1746.7	1692.7	1658.3	1681.7	1805.5	2176.4	2385.0	1911.5	1550.5
27.5°	2026.9	2016.0	1968.1	1887.8	1809.2	1780.7	1863.6	2139.8	2442.3	1945.8	1535.6
30°	2256.8	2242.5	2195.4	2132.9	2018.2	1928.3	1968.5	2155.9	2510.7	1981.6	1515.8
32.5°	2504.8	2491.3	2428.8	2351.4	2256.4	2135.5	2112.1	2234.5	2594.3	2031.7	1501.9
35°	2818.7	2797.5	2708.7	2603.1	2502.3	2379.9	2306.4	2370.0	2705.8	2108.1	1509.6
37.5°	3176.0	3147.5	3051.7	2906.0	2774.5	2637.4	2543.2	2556.3	2869.1	2210.4	1533.4
40°	3512.8	3486.9	3398.5	3261.1	3096.0	2929.7	2829.3	2800.0	3094.5	2334.9	1575.0
42.5°	3714.9	3691.5	3654.2	3596.1	3456.9	3287.4	3160.6	3097.4	3361.2	2484.0	1625.8
45°	3726.2	3705.7	3755.8	3823.4	3796.0	3683.1	3528.5	3412.7	3629.0	2623.9	1678.4
47.5°	3545.0	3531.1	3683.1	3919.1	4036.7	4084.2	3941.7	3701.7	3850.0	2724.4	1700.0
50°	3051.0	3045.9	3358.6	3791.9	4128.4	4435.7	4377.6	3970.6	4021.4	2776.3	1679.5
52.5°	2645.5	2626.9	2809.2	3384.9	3995.1	4620.6	4803.6	4234.4	4141.2	2786.1	1631.6
55°	2006.5	1990.0	2218.8	2703.9	3565.1	4554.8	5115.2	4506.6	4227.1	2760.9	1545.8
57.5°	1076.3	1066.1	1355.1	1799.7	2786.9	4160.2	5171.5	4794.5	4299.4	2694.1	1425.6
60°	419.1	417.2	525.4	873.2	1693.8	3384.6	4887.6	4967.3	4344.7	2611.9	1325.1
62.5°	253.6	259.0	276.6	392.0	748.2	2102.6	4233.3	4770.7	4375.0	2536.6	1242.2
65°	209.7	210.1	212.3	269.3	358.4	879.8	3186.9	4124.0	4300.1	2402.5	1124.5
67.5°	179.8	183.0	191.4	213.7	252.8	385.8	1834.8	3194.6	3844.6	2090.5	941.1
70°	141.8	146.1	156.7	175.7	195.1	241.5	678.1	2125.6	2937.0	1575.7	711.7
72.5°	119.5	119.1	124.6	142.9	154.9	169.9	260.9	1191.0	1706.9	752.3	352.2
75°	92.4	96.1	103.0	119.5	126.8	123.1	141.4	435.1	611.6	228.0	119.8
77.5°	72.3	75.3	81.5	97.5	104.9	87.3	81.5	155.6	196.6	81.8	54.1
80°	32.5	35.1	55.5	72.0	85.5	60.3	44.2	79.6	87.3	37.3	27.4
82.5°	5.8	9.9	32.5	38.0	43.8	39.1	23.0	41.3	42.7	15.0	9.5
85°	0.4	0.7	11.3	13.9	17.5	12.8	6.9	16.4	14.2	5.1	3.7
87.5°	0.0	0.0	0.0	0.4	0.4	1.8	2.2	2.9	2.2	1.8	1.5
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: P945567

CATALOG NUMBER: GALN-SB1C-727-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1427.8	1427.8	1427.8	1427.8	1427.8	1427.8	1427.8	1427.8	1427.8	1427.8
2.5°	1404.8	1352.9	1302.5	1261.2	1237.1	1196.1	1169.1	1164.7	1153.4	1163.3
5°	1377.7	1284.9	1191.0	1107.0	1038.0	948.8	882.3	854.2	829.7	838.1
7.5°	1364.9	1218.4	1072.3	928.7	781.1	638.6	532.7	488.5	454.9	459.6
10°	1347.8	1149.4	920.3	701.1	503.4	362.8	289.7	262.7	247.7	248.1
12.5°	1334.6	1066.8	743.8	475.3	306.5	231.6	209.0	202.4	198.0	198.4
15°	1328.0	969.6	569.6	316.8	219.2	196.2	190.7	187.8	184.9	184.5
17.5°	1317.1	861.5	416.9	231.3	191.8	183.8	179.0	175.7	172.1	171.3
20°	1300.6	738.7	304.7	195.5	179.8	173.5	167.0	162.6	158.2	157.5
22.5°	1270.3	609.0	234.2	180.8	171.0	164.0	156.0	150.9	146.5	145.8
25°	1214.1	487.4	197.3	171.7	163.3	154.9	146.1	139.2	135.2	134.4
27.5°	1142.8	382.9	179.0	163.3	153.4	145.8	135.9	129.3	125.7	124.9
30°	1058.8	294.8	168.4	153.8	141.8	135.2	126.4	120.9	118.7	118.7
32.5°	968.2	235.6	164.0	144.3	131.5	124.2	117.3	115.1	114.4	114.0
35°	883.0	204.6	161.8	136.6	122.4	115.4	112.5	112.9	114.4	114.4
37.5°	807.4	194.7	160.8	131.2	114.4	108.1	110.0	113.3	111.8	111.8
40°	739.1	195.8	160.0	127.1	107.8	104.1	107.8	105.2	101.6	101.2
42.5°	686.9	205.0	158.6	123.9	103.8	101.2	99.7	95.7	95.4	96.1
45°	648.9	213.0	158.2	122.4	99.4	94.6	92.8	88.8	96.1	97.9
47.5°	603.9	213.0	158.2	117.3	92.1	90.2	87.3	82.9	90.2	92.1
50°	545.8	199.5	152.0	111.4	86.2	85.1	80.0	74.5	73.1	74.2
52.5°	472.4	175.0	136.3	103.4	80.4	78.2	72.0	68.0	66.9	66.9
55°	388.7	146.5	115.1	91.7	74.2	70.1	65.8	63.9	62.8	62.1
57.5°	316.0	120.2	92.4	81.5	68.3	63.2	61.7	59.6	57.7	56.6
60°	259.4	94.6	76.4	72.3	62.5	57.7	57.4	54.4	49.7	49.0
62.5°	200.2	69.4	64.3	62.8	56.6	52.6	51.9	46.0	38.7	37.3
65°	141.4	54.1	51.9	55.2	50.4	46.8	44.9	36.2	28.5	27.4
67.5°	99.4	45.3	40.9	48.2	43.8	39.1	38.0	30.7	23.7	23.0
70°	70.9	36.9	33.6	41.3	35.1	34.3	32.2	25.6	19.4	18.6
72.5°	50.1	28.1	25.9	35.8	24.1	29.6	26.3	19.7	14.6	13.9
75°	36.9	20.1	18.3	20.8	17.5	22.3	18.6	13.2	9.1	8.8
77.5°	27.0	12.8	11.0	10.2	10.2	13.9	10.2	5.5	4.0	3.7
80°	19.0	5.8	5.1	4.4	4.0	3.3	1.5	0.7	0.4	0.4
82.5°	11.3	2.6	2.6	1.8	1.1	0.0	0.0	0.0	0.0	0.0
85°	2.6	1.1	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	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

(END OF REPORT)