

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: P945924

Luminaire Tested: **GALN-SB1D-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945924
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-SB1D-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8050 lumens
Efficiency: N/A
Efficacy: 101.1 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): 79.6
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

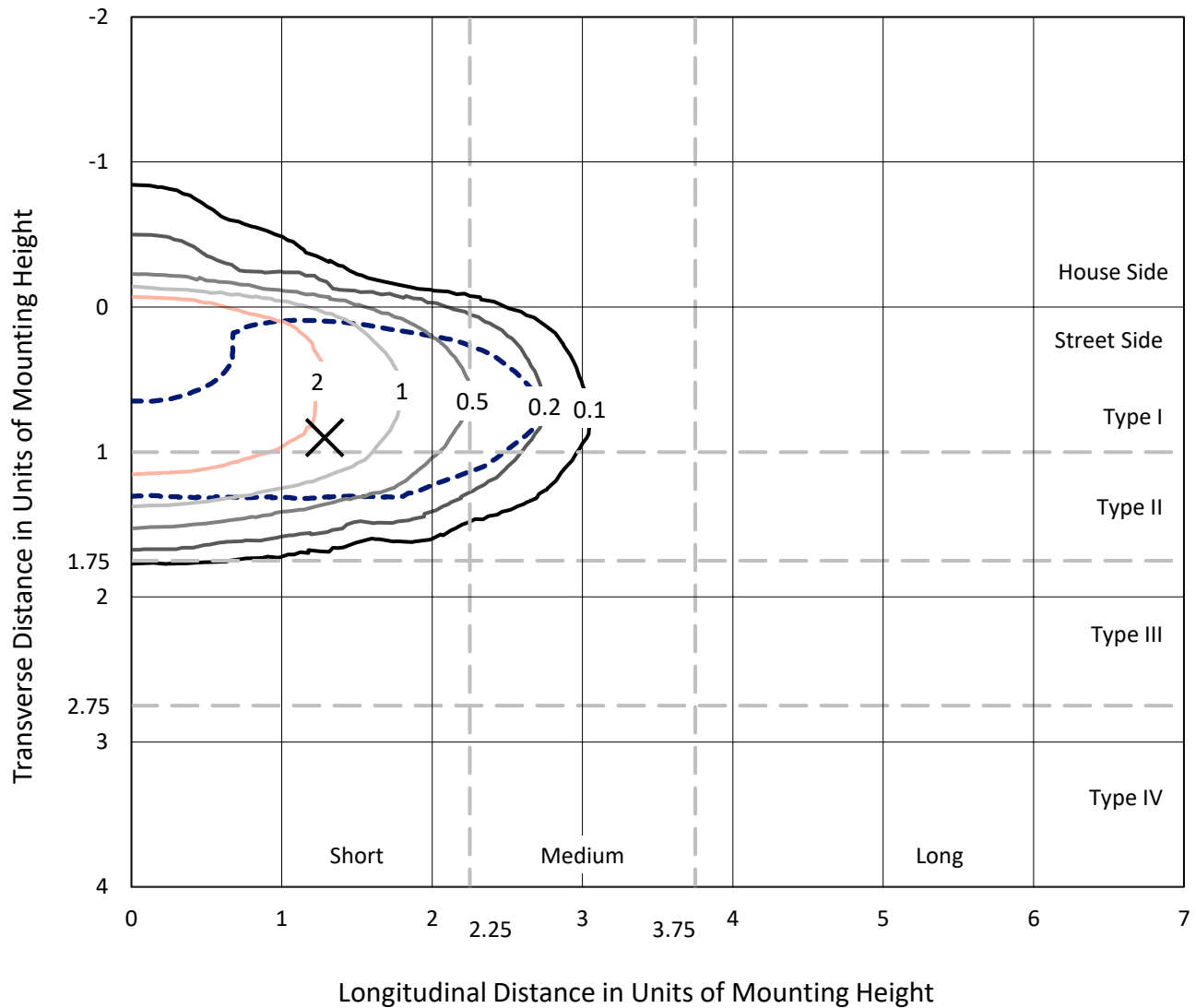


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

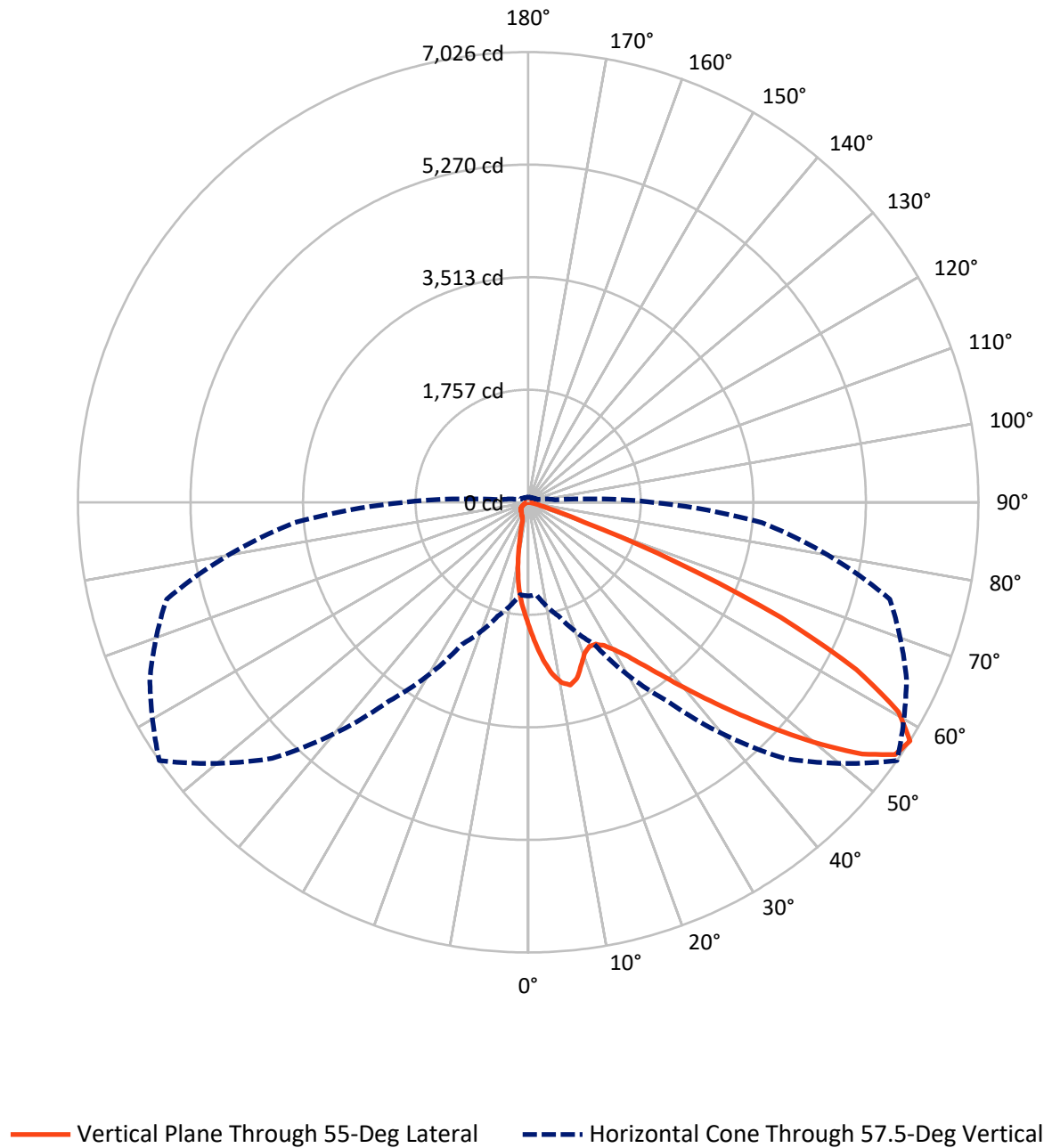


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	628.7	0.0	628.7
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	7421.3	0.0	7421.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	8050.0	0.0	8050.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.5	2.2
10°-20°	436.0	5.4
20°-30°	697.6	8.7
30°-40°	1180.7	14.7
40°-50°	1938.4	24.1
50°-60°	2130.4	26.5
60°-70°	1222.0	15.2
70°-80°	249.7	3.1
80°-90°	14.7	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°	8050.0	100.0
0°-180°	8050.0	100.0

Coefficient of Utilization



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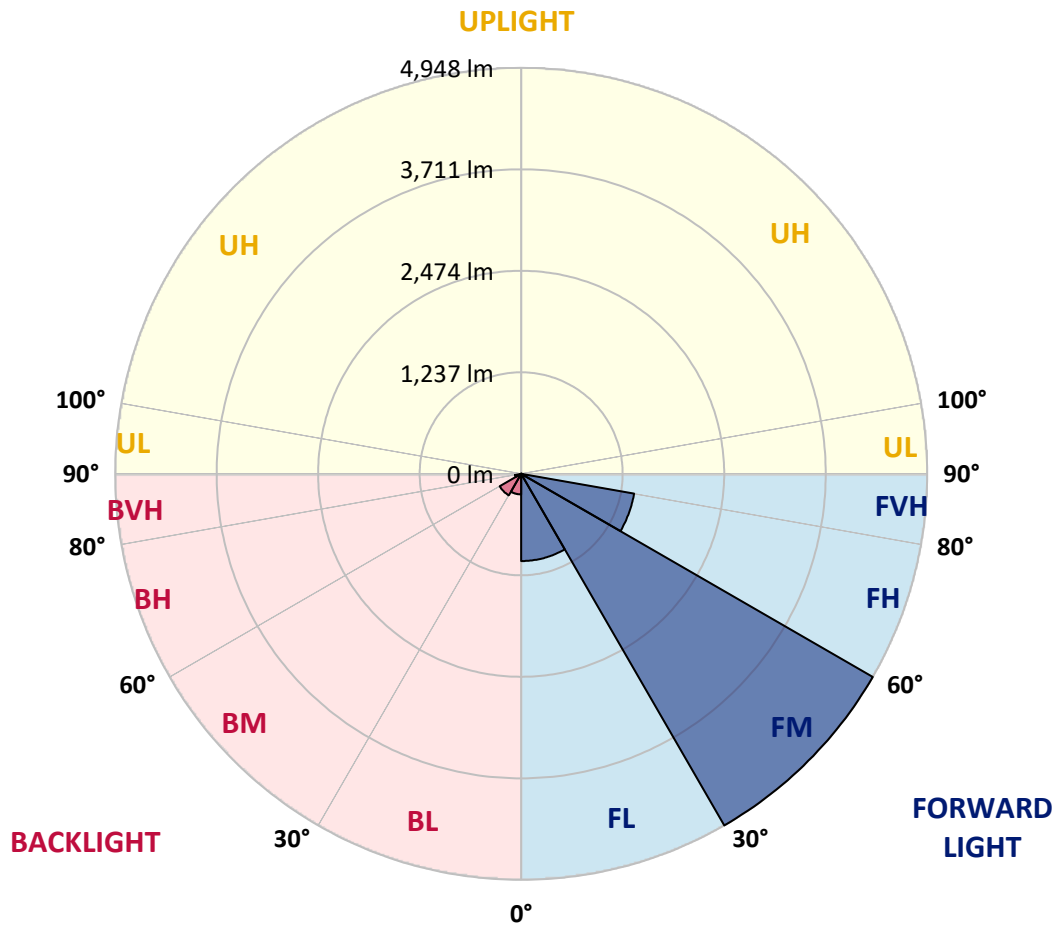
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1063.1	13.2			
FM	(30°-60°)	4947.6	61.5			
FH	(60°-80°)	1397.0	17.4			G1/1800
FVH	(80°-90°)	13.7	0.2			G1/100
BL	(0°-30°)	251.0	3.1	B1/500		
BM	(30°-60°)	301.9	3.8	B1/1000		
BH	(60°-80°)	74.8	0.9	B0/110		G0/110
BVH	(80°-90°)	1.0	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9
2.5°	2406.9	2376.7	2372.2	2366.2	2308.7	2265.5	2202.9	2134.4	2057.5	1979.1	1944.3
5°	2780.7	2756.9	2752.4	2724.6	2659.1	2585.6	2474.5	2334.0	2190.5	2021.8	1949.3
7.5°	2853.2	2848.7	2869.1	2868.1	2859.1	2801.1	2707.3	2540.0	2324.5	2074.4	1962.2
10°	2530.0	2541.5	2602.0	2655.1	2798.6	2882.0	2861.6	2723.6	2462.5	2134.4	1976.6
12.5°	2235.7	2222.3	2265.5	2325.5	2492.3	2740.5	2925.7	2877.0	2620.4	2202.4	1997.9
15°	2051.0	2045.6	2069.9	2097.7	2224.8	2474.9	2851.2	3001.6	2772.3	2282.8	2030.2
17.5°	1992.0	1987.5	1994.9	2001.9	2084.3	2277.9	2674.0	3078.1	2917.7	2374.7	2065.9
20°	2040.1	2034.2	2033.2	2027.7	2062.0	2194.0	2513.7	3083.5	3048.3	2458.1	2096.7
22.5°	2180.6	2173.6	2149.3	2127.5	2130.5	2205.4	2442.2	3028.9	3146.6	2536.0	2116.1
25°	2435.2	2423.8	2373.2	2299.7	2253.1	2284.8	2453.1	2956.9	3240.4	2597.1	2106.6
27.5°	2753.9	2739.0	2674.0	2564.8	2458.1	2419.4	2532.0	2907.3	3318.3	2643.7	2086.3
30°	3066.1	3046.8	2982.7	2897.9	2742.0	2619.9	2674.5	2929.1	3411.1	2692.4	2059.5
32.5°	3403.2	3384.8	3299.9	3194.7	3065.6	2901.3	2869.6	3035.9	3524.8	2760.4	2040.6
35°	3829.6	3800.8	3680.2	3536.7	3399.7	3233.4	3133.6	3220.0	3676.2	2864.1	2051.0
37.5°	4315.0	4276.3	4146.3	3948.2	3769.5	3583.4	3455.3	3473.2	3898.1	3003.1	2083.3
40°	4772.7	4737.4	4617.3	4430.7	4206.3	3980.5	3844.0	3804.3	4204.3	3172.4	2139.9
42.5°	5047.2	5015.4	4964.8	4885.9	4696.7	4466.4	4294.2	4208.3	4566.7	3374.9	2208.9
45°	5062.6	5034.8	5102.8	5194.6	5157.4	5004.0	4794.0	4636.7	4930.5	3565.0	2280.4
47.5°	4816.4	4797.5	5004.0	5324.7	5484.5	5549.0	5355.4	5029.3	5230.8	3701.5	2309.7
50°	4145.3	4138.3	4563.2	5151.9	5609.1	6026.5	5947.6	5394.7	5463.7	3772.0	2281.9
52.5°	3594.3	3569.0	3816.7	4599.0	5427.9	6277.7	6526.4	5753.0	5626.5	3785.4	2216.8
55°	2726.1	2703.8	3014.5	3673.7	4843.7	6188.4	6949.8	6122.8	5743.1	3751.1	2100.2
57.5°	1462.3	1448.4	1841.1	2445.2	3786.4	5652.3	7026.3	6514.0	5841.4	3660.3	1936.9
60°	569.3	566.9	713.8	1186.3	2301.2	4598.5	6640.6	6748.8	5902.9	3548.6	1800.4
62.5°	344.5	351.9	375.8	532.6	1016.6	2856.7	5751.6	6481.7	5944.1	3446.4	1687.7
65°	284.9	285.4	288.4	365.8	486.9	1195.3	4329.9	5603.1	5842.4	3264.2	1527.9
67.5°	244.2	248.7	260.1	290.4	343.5	524.2	2492.8	4340.3	5223.4	2840.3	1278.7
70°	192.6	198.6	212.9	238.8	265.1	328.1	921.3	2887.9	3990.4	2140.9	966.9
72.5°	162.3	161.8	169.3	194.1	210.5	230.8	354.4	1618.2	2319.1	1022.0	478.5
75°	125.6	130.5	140.0	162.3	172.2	167.3	192.1	591.2	830.9	309.7	162.8
77.5°	98.3	102.3	110.7	132.5	142.5	118.6	110.7	211.5	267.1	111.2	73.5
80°	44.2	47.7	75.4	97.8	116.2	81.9	60.1	108.2	118.6	50.6	37.2
82.5°	7.9	13.4	44.2	51.6	59.6	53.1	31.3	56.1	58.1	20.4	12.9
85°	0.5	1.0	15.4	18.9	23.8	17.4	9.4	22.3	19.4	6.9	5.0
87.5°	0.0	0.0	0.0	0.5	0.5	2.5	3.0	4.0	3.0	2.5	2.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9
2.5°	1908.6	1838.1	1769.6	1713.5	1680.7	1625.1	1588.4	1582.5	1567.1	1580.5
5°	1871.8	1745.8	1618.2	1504.0	1410.2	1289.1	1198.8	1160.5	1127.3	1138.7
7.5°	1854.5	1655.4	1456.9	1261.8	1061.3	867.7	723.7	663.7	618.0	624.4
10°	1831.1	1561.6	1250.4	952.6	684.0	492.9	393.6	356.9	336.5	337.0
12.5°	1813.3	1449.4	1010.6	645.8	416.5	314.7	283.9	275.0	269.0	269.5
15°	1804.3	1317.4	773.9	430.4	297.8	266.6	259.1	255.1	251.2	250.7
17.5°	1789.4	1170.5	566.4	314.2	260.6	249.7	243.2	238.8	233.8	232.8
20°	1767.1	1003.7	414.0	265.6	244.2	235.8	226.8	220.9	214.9	213.9
22.5°	1725.9	827.5	318.2	245.7	232.3	222.9	212.0	205.0	199.0	198.1
25°	1649.5	662.2	268.0	233.3	221.9	210.5	198.6	189.1	183.7	182.7
27.5°	1552.7	520.2	243.2	221.9	208.5	198.1	184.7	175.7	170.8	169.8
30°	1438.5	400.6	228.8	209.0	192.6	183.7	171.7	164.3	161.3	161.3
32.5°	1315.4	320.2	222.9	196.1	178.7	168.8	159.3	156.4	155.4	154.9
35°	1199.7	278.0	219.9	185.6	166.3	156.9	152.9	153.4	155.4	155.4
37.5°	1097.0	264.6	218.4	178.2	155.4	146.9	149.4	153.9	151.9	151.9
40°	1004.2	266.1	217.4	172.7	146.4	141.5	146.4	143.0	138.0	137.5
42.5°	933.2	278.5	215.4	168.3	141.0	137.5	135.5	130.1	129.6	130.5
45°	881.6	289.4	214.9	166.3	135.0	128.6	126.1	120.6	130.5	133.0
47.5°	820.5	289.4	214.9	159.3	125.1	122.6	118.6	112.7	122.6	125.1
50°	741.6	271.0	206.5	151.4	117.1	115.7	108.7	101.3	99.3	100.8
52.5°	641.8	237.8	185.1	140.5	109.2	106.2	97.8	92.3	90.8	90.8
55°	528.1	199.0	156.4	124.6	100.8	95.3	89.3	86.9	85.4	84.4
57.5°	429.4	163.3	125.6	110.7	92.8	85.9	83.9	80.9	78.4	76.9
60°	352.4	128.6	103.7	98.3	84.9	78.4	77.9	74.0	67.5	66.5
62.5°	272.0	94.3	87.4	85.4	76.9	71.5	70.5	62.5	52.6	50.6
65°	192.1	73.5	70.5	75.0	68.5	63.5	61.1	49.1	38.7	37.2
67.5°	135.0	61.6	55.6	65.5	59.6	53.1	51.6	41.7	32.3	31.3
70°	96.3	50.1	45.7	56.1	47.7	46.7	43.7	34.7	26.3	25.3
72.5°	68.0	38.2	35.2	48.6	32.8	40.2	35.7	26.8	19.9	18.9
75°	50.1	27.3	24.8	28.3	23.8	30.3	25.3	17.9	12.4	11.9
77.5°	36.7	17.4	14.9	13.9	13.9	18.9	13.9	7.4	5.5	5.0
80°	25.8	7.9	6.9	6.0	5.5	4.5	2.0	1.0	0.5	0.5
82.5°	15.4	3.5	3.5	2.5	1.5	0.0	0.0	0.0	0.0	0.0
85°	3.5	1.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.5	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)