

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: P946281

Luminaire Tested: **GALN-SB2A-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946281
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-SB2A-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7094 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 57.3
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

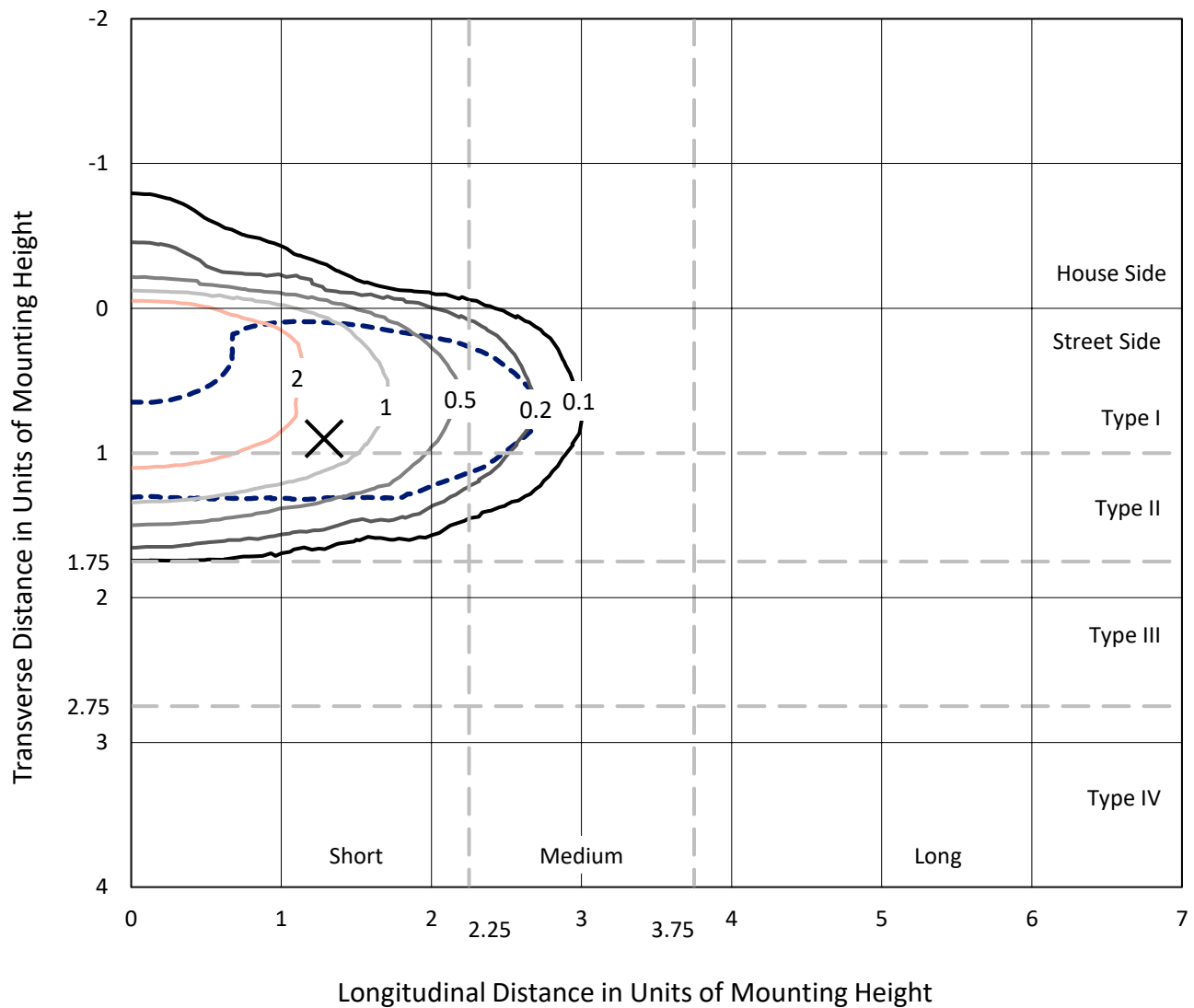


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Iso-Footcandle Lines of Horizontal Illumination

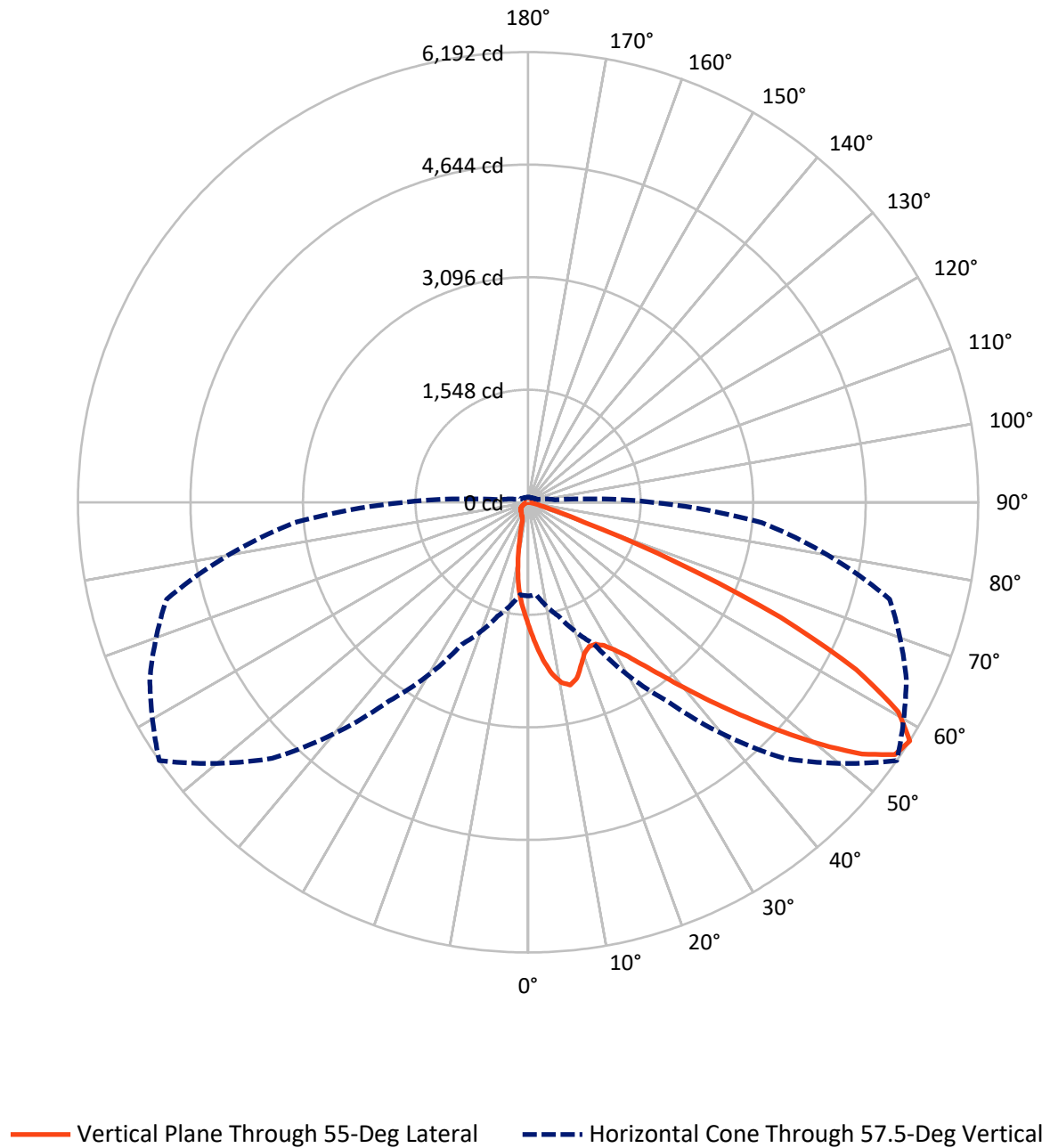
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	554.0	0.0	554.0
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	6540.0	0.0	6540.0
	% Fixture	92.2	0.0	92.2
Total	Lumens	7094.0	0.0	7094.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.1	2.2
10°-20°	384.2	5.4
20°-30°	614.7	8.7
30°-40°	1040.5	14.7
40°-50°	1708.2	24.1
50°-60°	1877.4	26.5
60°-70°	1076.9	15.2
70°-80°	220.0	3.1
80°-90°	13.0	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°	7094.0	100.0
0°-180°	7094.0	100.0

Coefficient of Utilization



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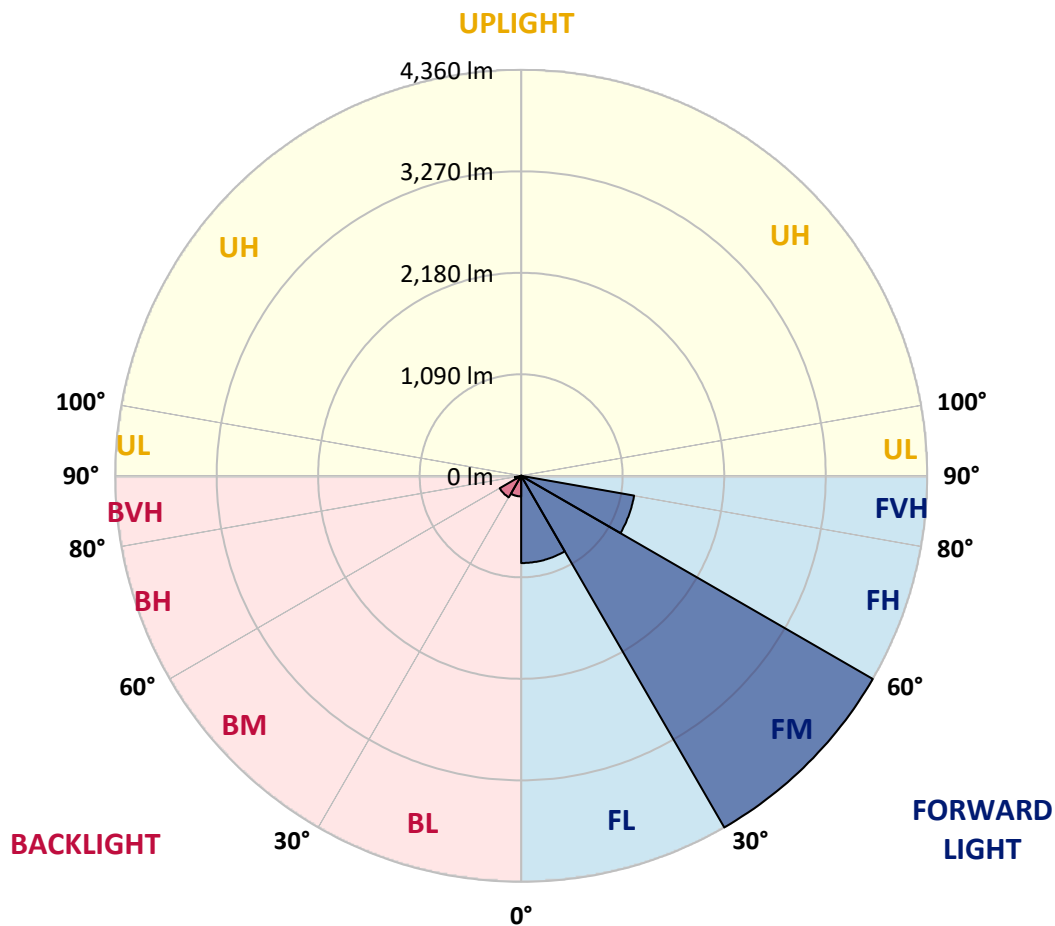
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	936.8	13.2			
FM	(30°-60°)	4360.0	61.5			
FH	(60°-80°)	1231.1	17.4			G1/1800
FVH	(80°-90°)	12.1	0.2			G1/100
BL	(0°-30°)	221.2	3.1	B1/500		
BM	(30°-60°)	266.1	3.8	B1/1000		
BH	(60°-80°)	65.9	0.9	B0/110		G0/110
BVH	(80°-90°)	0.9	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°	1709.5	1709.5	1709.5	1709.5	1709.5	1709.5	1709.5	1709.5	1709.5	1709.5	1709.5
2.5°	2121.1	2094.4	2090.5	2085.2	2034.5	1996.4	1941.3	1881.0	1813.2	1744.0	1713.4
5°	2450.5	2429.5	2425.6	2401.1	2343.3	2278.6	2180.6	2056.8	1930.4	1781.7	1717.8
7.5°	2514.4	2510.4	2528.3	2527.5	2519.6	2468.4	2385.7	2238.3	2048.5	1828.0	1729.2
10°	2229.6	2239.6	2293.0	2339.8	2466.2	2539.7	2521.8	2400.2	2170.1	1881.0	1741.8
12.5°	1970.2	1958.4	1996.4	2049.4	2196.3	2415.1	2578.2	2535.3	2309.2	1940.9	1760.7
15°	1807.5	1802.7	1824.1	1848.6	1960.6	2181.0	2512.6	2645.1	2443.1	2011.7	1789.1
17.5°	1755.4	1751.5	1758.0	1764.2	1836.8	2007.4	2356.4	2712.5	2571.2	2092.7	1820.6
20°	1797.8	1792.6	1791.7	1786.9	1817.1	1933.4	2215.1	2717.3	2686.3	2166.2	1847.7
22.5°	1921.6	1915.5	1894.1	1874.8	1877.5	1943.5	2152.2	2669.2	2772.9	2234.8	1864.8
25°	2146.0	2136.0	2091.4	2026.6	1985.5	2013.5	2161.8	2605.8	2855.5	2288.6	1856.5
27.5°	2426.9	2413.7	2356.4	2260.2	2166.2	2132.0	2231.3	2562.0	2924.2	2329.8	1838.5
30°	2702.0	2684.9	2628.5	2553.7	2416.4	2308.8	2356.9	2581.3	3006.0	2372.6	1814.9
32.5°	2999.0	2982.8	2908.0	2815.3	2701.6	2556.8	2528.8	2675.3	3106.2	2432.6	1798.3
35°	3374.8	3349.4	3243.1	3116.7	2996.0	2849.4	2761.5	2837.6	3239.6	2524.0	1807.5
37.5°	3802.6	3768.5	3653.9	3479.3	3321.8	3157.8	3045.0	3060.7	3435.1	2646.5	1835.9
40°	4205.9	4174.8	4069.0	3904.5	3706.8	3507.8	3387.5	3352.5	3705.0	2795.6	1885.8
42.5°	4447.8	4419.8	4375.2	4305.6	4139.0	3936.0	3784.2	3708.5	4024.4	2974.1	1946.6
45°	4461.4	4436.9	4496.8	4577.7	4544.9	4409.7	4224.7	4086.0	4345.0	3141.6	2009.6
47.5°	4244.4	4227.8	4409.7	4692.3	4833.2	4890.0	4719.4	4432.0	4609.6	3261.9	2035.4
50°	3653.0	3646.9	4021.3	4540.1	4943.0	5310.8	5241.3	4754.0	4814.8	3324.0	2010.9
52.5°	3167.4	3145.1	3363.4	4052.8	4783.3	5532.2	5751.3	5069.8	4958.3	3335.8	1953.6
55°	2402.4	2382.7	2656.5	3237.4	4268.4	5453.4	6124.5	5395.7	5061.1	3305.7	1850.8
57.5°	1288.7	1276.4	1622.4	2154.8	3336.7	4981.0	6191.8	5740.4	5147.7	3225.6	1706.9
60°	501.7	499.5	629.0	1045.5	2027.9	4052.4	5851.9	5947.3	5201.9	3127.2	1586.6
62.5°	303.6	310.1	331.1	469.4	895.9	2517.4	5068.5	5712.0	5238.2	3037.1	1487.3
65°	251.1	251.5	254.1	322.4	429.1	1053.3	3815.7	4937.7	5148.6	2876.5	1346.4
67.5°	215.2	219.2	229.2	255.9	302.7	461.9	2196.8	3824.9	4603.1	2503.0	1126.8
70°	169.7	175.0	187.7	210.4	233.6	289.1	811.9	2545.0	3516.5	1886.6	852.1
72.5°	143.0	142.6	149.2	171.0	185.5	203.4	312.3	1426.0	2043.7	900.7	421.7
75°	110.7	115.0	123.4	143.0	151.8	147.4	169.3	521.0	732.3	273.0	143.5
77.5°	86.6	90.1	97.5	116.8	125.5	104.5	97.5	186.3	235.3	98.0	64.7
80°	38.9	42.0	66.5	86.2	102.4	72.2	52.9	95.4	104.5	44.6	32.8
82.5°	7.0	11.8	38.9	45.5	52.5	46.8	27.6	49.4	51.2	17.9	11.4
85°	0.4	0.9	13.6	16.6	21.0	15.3	8.3	19.7	17.1	6.1	4.4
87.5°	0.0	0.0	0.0	0.4	0.4	2.2	2.6	3.5	2.6	2.2	1.7
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°	1709.5	1709.5	1709.5	1709.5	1709.5	1709.5	1709.5	1709.5	1709.5	1709.5
2.5°	1681.9	1619.8	1559.4	1510.0	1481.1	1432.1	1399.8	1394.5	1381.0	1392.8
5°	1649.6	1538.4	1426.0	1325.4	1242.7	1136.0	1056.4	1022.7	993.4	1003.5
7.5°	1634.2	1458.8	1283.9	1111.9	935.2	764.6	637.8	584.8	544.6	550.3
10°	1613.7	1376.2	1101.9	839.4	602.8	434.4	346.9	314.5	296.6	297.0
12.5°	1597.9	1277.3	890.6	569.1	367.0	277.3	250.2	242.3	237.1	237.5
15°	1590.1	1160.9	682.0	379.3	262.5	234.9	228.3	224.8	221.3	220.9
17.5°	1576.9	1031.5	499.1	276.9	229.7	220.0	214.3	210.4	206.0	205.2
20°	1557.3	884.5	364.8	234.0	215.2	207.8	199.9	194.7	189.4	188.5
22.5°	1520.9	729.2	280.4	216.5	204.7	196.4	186.8	180.7	175.4	174.5
25°	1453.6	583.5	236.2	205.6	195.5	185.5	175.0	166.7	161.8	161.0
27.5°	1368.3	458.4	214.3	195.5	183.7	174.5	162.7	154.9	150.5	149.6
30°	1267.7	353.0	201.7	184.2	169.7	161.8	151.4	144.8	142.2	142.2
32.5°	1159.2	282.1	196.4	172.8	157.5	148.7	140.4	137.8	136.9	136.5
35°	1057.3	245.0	193.8	163.6	146.5	138.2	134.7	135.2	136.9	136.9
37.5°	966.7	233.2	192.5	157.0	136.9	129.5	131.7	135.6	133.9	133.9
40°	884.9	234.5	191.6	152.2	129.0	124.7	129.0	126.0	121.6	121.2
42.5°	822.4	245.4	189.8	148.3	124.2	121.2	119.4	114.6	114.2	115.0
45°	776.9	255.0	189.4	146.5	119.0	113.3	111.1	106.3	115.0	117.2
47.5°	723.1	255.0	189.4	140.4	110.2	108.0	104.5	99.3	108.0	110.2
50°	653.5	238.8	182.0	133.4	103.2	101.9	95.8	89.2	87.5	88.8
52.5°	565.6	209.5	163.2	123.8	96.2	93.6	86.2	81.4	80.0	80.0
55°	465.4	175.4	137.8	109.8	88.8	84.0	78.7	76.6	75.2	74.4
57.5°	378.4	143.9	110.7	97.5	81.8	75.7	73.9	71.3	69.1	67.8
60°	310.6	113.3	91.4	86.6	74.8	69.1	68.7	65.2	59.5	58.6
62.5°	239.7	83.1	77.0	75.2	67.8	63.0	62.1	55.1	46.4	44.6
65°	169.3	64.7	62.1	66.1	60.4	56.0	53.8	43.3	34.1	32.8
67.5°	119.0	54.2	49.0	57.7	52.5	46.8	45.5	36.7	28.4	27.6
70°	84.9	44.2	40.2	49.4	42.0	41.1	38.5	30.6	23.2	22.3
72.5°	59.9	33.7	31.1	42.9	28.9	35.4	31.5	23.6	17.5	16.6
75°	44.2	24.1	21.9	24.9	21.0	26.7	22.3	15.7	10.9	10.5
77.5°	32.4	15.3	13.1	12.2	12.2	16.6	12.2	6.6	4.8	4.4
80°	22.7	7.0	6.1	5.2	4.8	3.9	1.7	0.9	0.4	0.4
82.5°	13.6	3.1	3.1	2.2	1.3	0.0	0.0	0.0	0.0	0.0
85°	3.1	1.3	1.3	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)