

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: P947346

Luminaire Tested: **GALN-SB2D-722-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-722-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13996 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 147.6
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

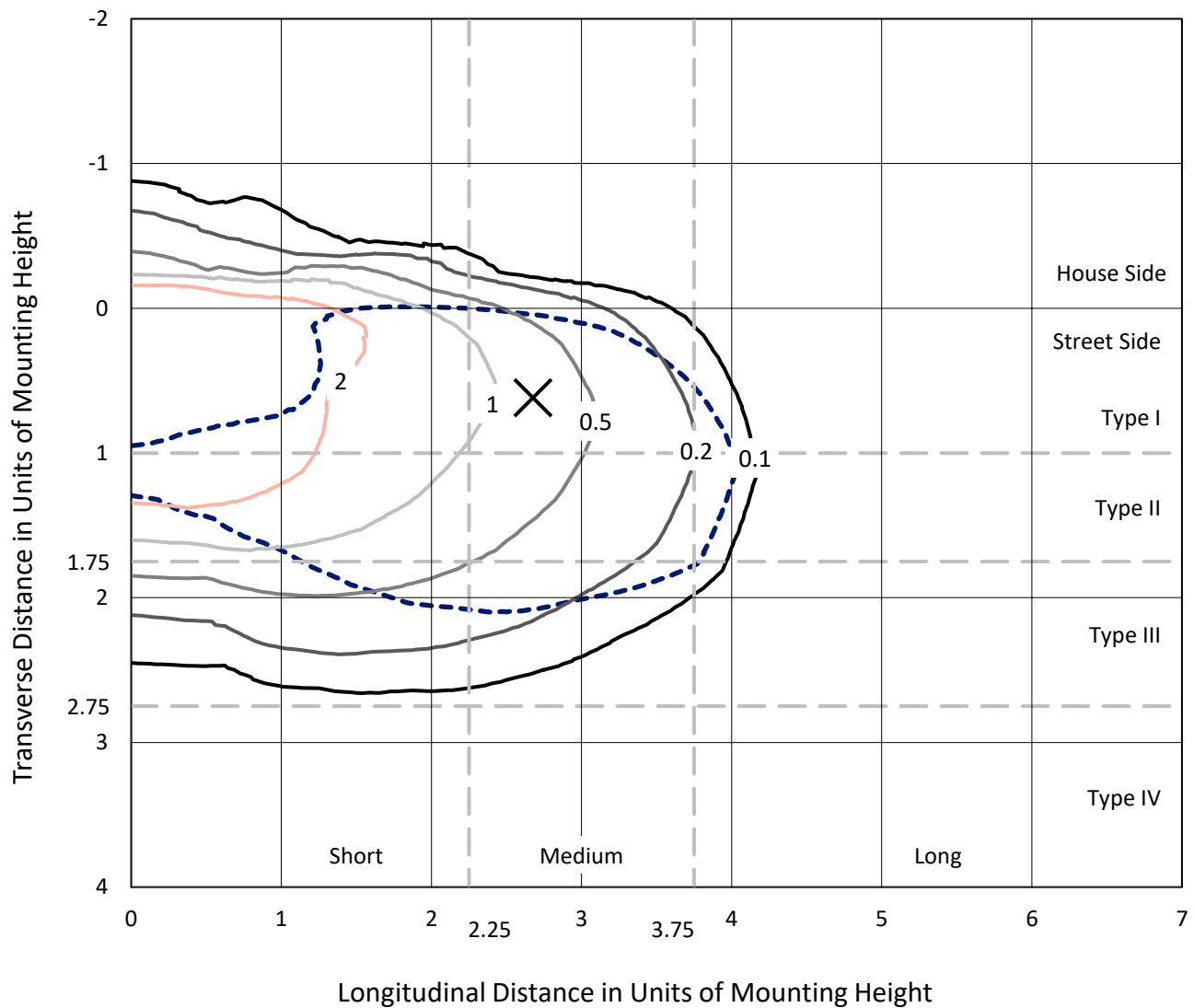


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

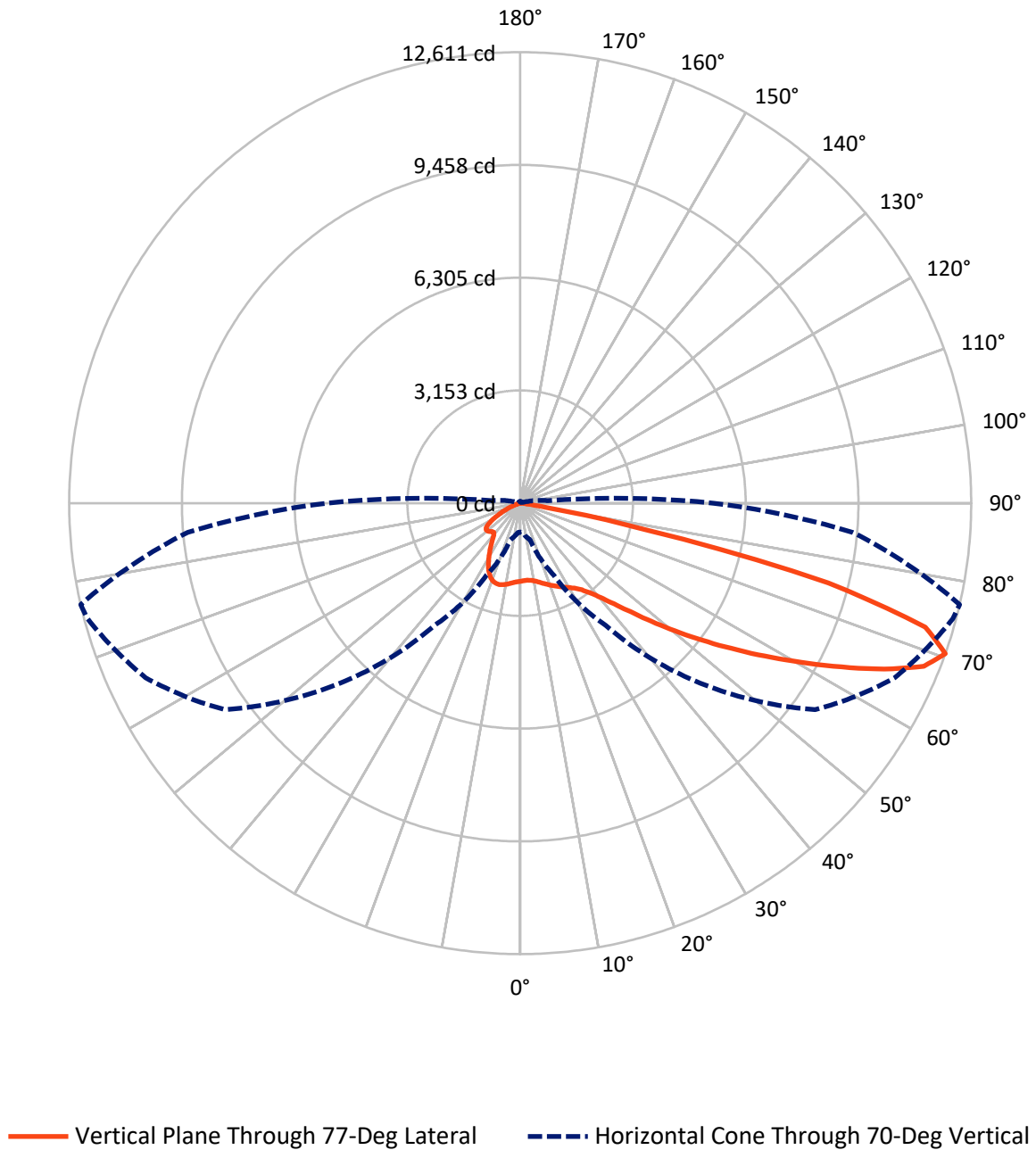


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1475.4	0.0	1475.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	12520.6	0.0	12520.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	13996.0	0.0	13996.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.2	1.3
10°-20°	446.6	3.2
20°-30°	690.8	4.9
30°-40°	1253.6	9.0
40°-50°	2366.3	16.9
50°-60°	3419.0	24.4
60°-70°	3639.5	26.0
70°-80°	1928.7	13.8
80°-90°	63.3	0.5
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°	13996.0	100.0
0°-180°	13996.0	100.0

Coefficient of Utilization



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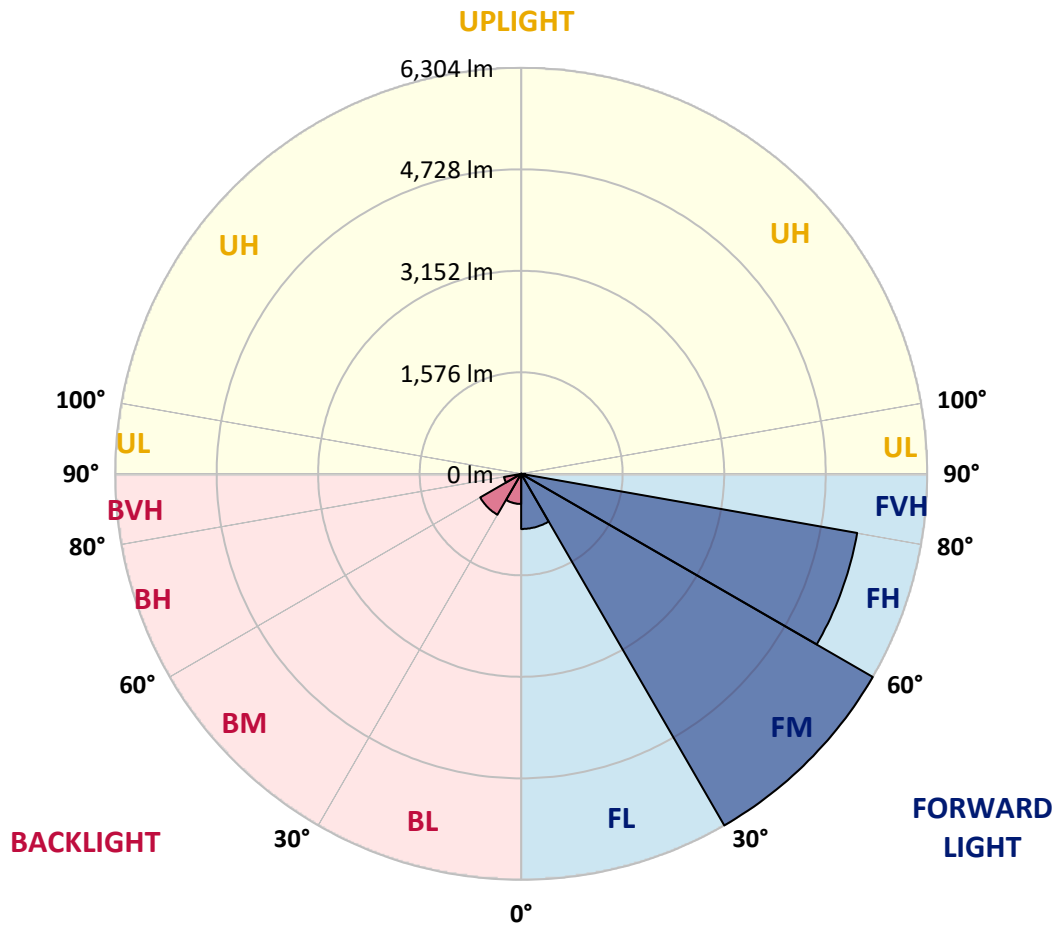
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	856.9	6.1			
FM	(30°-60°)	6304.4	45.0			
FH	(60°-80°)	5297.7	37.9			G3/7500
FVH	(80°-90°)	61.6	0.4			G1/100
BL	(0°-30°)	468.8	3.3	B1/500		
BM	(30°-60°)	734.4	5.2	B1/1000		
BH	(60°-80°)	270.5	1.9	B1/500		G1/500
BVH	(80°-90°)	1.7	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2183.1	2183.1	2183.1	2183.1	2183.1	2183.1	2183.1	2183.1	2183.1	2183.1	2183.1
2.5°	2049.7	2068.2	2065.6	2077.9	2082.4	2100.0	2117.7	2141.6	2168.1	2167.2	2184.9
5°	1933.9	1952.4	1956.9	1973.6	1994.9	2022.3	2058.5	2106.2	2155.7	2163.7	2199.0
7.5°	1796.9	1816.3	1827.8	1861.4	1900.3	1956.9	2016.1	2085.9	2168.1	2179.6	2247.6
10°	1659.9	1677.6	1692.6	1740.3	1802.2	1886.1	1982.5	2083.2	2193.7	2210.5	2306.9
12.5°	1575.0	1591.8	1608.6	1650.2	1727.1	1829.6	1960.4	2095.6	2236.2	2260.0	2387.3
15°	1545.0	1560.0	1573.3	1610.4	1682.0	1798.6	1956.0	2121.3	2290.1	2321.9	2484.5
17.5°	1549.4	1557.4	1566.2	1594.5	1664.3	1784.5	1963.9	2165.4	2353.7	2382.0	2581.7
20°	1575.0	1579.4	1580.3	1599.8	1661.6	1782.7	1979.8	2207.9	2413.8	2451.8	2678.1
22.5°	1607.7	1609.5	1607.7	1621.0	1678.4	1796.0	2001.0	2259.1	2481.0	2516.3	2775.3
25°	1760.6	1727.1	1684.6	1659.0	1706.7	1821.6	2032.9	2328.1	2554.3	2588.8	2869.9
27.5°	2235.3	2138.9	1986.9	1816.3	1765.1	1858.7	2077.1	2397.9	2628.6	2659.5	2971.5
30°	3006.0	2879.6	2621.5	2237.0	1952.4	1936.5	2134.5	2467.7	2707.2	2740.8	3080.2
32.5°	3778.5	3747.5	3449.7	2917.6	2374.0	2109.8	2230.0	2562.3	2811.5	2838.1	3227.0
35°	4559.8	4497.1	4253.1	3727.2	3023.7	2462.4	2389.1	2686.0	2948.5	2978.6	3440.8
37.5°	5158.2	5120.2	4969.0	4535.9	3794.4	3006.9	2661.3	2877.8	3147.4	3181.0	3714.8
40°	5686.7	5669.0	5617.8	5332.3	4656.2	3719.3	3084.7	3174.8	3423.2	3462.9	4050.7
42.5°	6102.1	6143.7	6172.8	6093.3	5544.4	4532.4	3653.9	3592.0	3807.6	3848.3	4478.5
45°	6527.3	6541.4	6659.0	6773.9	6426.5	5382.7	4295.5	4080.8	4285.8	4336.2	4991.1
47.5°	6800.4	6857.0	7063.8	7266.2	7168.1	6225.9	4984.9	4657.9	4840.0	4934.6	5565.6
50°	6820.7	6927.7	7212.3	7564.9	7708.1	7028.4	5734.5	5315.5	5509.1	5613.4	6179.0
52.5°	6482.2	6648.4	7089.4	7605.6	7999.8	7708.1	6509.6	5973.1	6221.5	6357.6	6815.4
55°	4969.9	5187.3	6627.1	7384.6	8011.3	8223.4	7264.4	6658.1	7015.2	7169.0	7503.0
57.5°	4330.0	4439.6	5210.3	7001.0	7798.3	8431.1	7946.7	7310.4	7878.7	8069.6	8152.7
60°	3602.6	3746.7	4369.8	6373.5	7509.2	8451.4	8549.5	8151.8	8814.7	9029.5	8748.4
62.5°	2448.3	2604.7	3224.3	5295.2	7114.2	8441.7	9043.6	9018.0	9855.0	10085.7	9253.1
65°	1516.7	1614.8	2023.1	4323.8	6561.7	8452.3	9560.7	10069.8	10952.7	11187.0	9643.7
67.5°	1198.5	1243.6	1456.6	3319.8	5609.8	8213.7	10076.8	11058.8	11986.0	12171.6	9763.1
70°	805.2	832.6	1059.7	2225.5	4173.6	7112.4	10067.1	11555.5	12518.0	12610.9	9328.2
72.5°	424.3	445.5	619.6	1030.6	2520.8	5055.7	8485.9	10961.6	11988.6	11849.0	7973.3
75°	212.1	247.5	417.2	523.2	1076.5	2819.5	5269.5	8642.3	9436.0	8895.1	5115.8
77.5°	160.9	194.4	344.7	344.7	374.8	949.3	2231.7	4713.6	4347.7	3620.3	1501.7
80°	102.5	132.6	301.4	260.7	156.4	241.3	581.6	1320.5	923.6	702.7	273.1
82.5°	60.1	86.6	251.0	172.4	87.5	89.3	164.4	281.1	239.5	186.5	84.0
85°	23.9	56.6	172.4	68.1	34.5	22.1	49.5	60.1	49.5	37.1	21.2
87.5°	0.0	13.3	30.1	0.0	2.7	1.8	3.5	4.4	4.4	3.5	7.1
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°	2183.1	2183.1	2183.1	2183.1	2183.1	2183.1	2183.1	2183.1	2183.1	2183.1	2183.1
2.5°	2192.8	2194.6	2199.9	2200.8	2188.4	2172.5	2166.3	2163.7	2153.1	2152.2	2154.0
5°	2219.4	2227.3	2219.4	2196.4	2141.6	2064.7	2006.4	1958.6	1915.3	1902.1	1894.1
7.5°	2272.4	2280.3	2256.5	2166.3	2028.4	1875.5	1737.7	1640.4	1552.9	1520.2	1507.0
10°	2348.4	2359.0	2283.9	2101.8	1857.9	1612.2	1378.8	1214.4	1086.3	1034.1	1012.0
12.5°	2443.9	2448.3	2298.9	2003.7	1636.0	1285.1	954.6	778.7	664.7	622.2	609.0
15°	2549.0	2542.9	2300.7	1870.2	1333.7	908.6	623.1	511.8	465.8	451.7	451.7
17.5°	2659.5	2633.9	2265.3	1677.6	1002.3	621.4	462.3	435.7	427.8	424.3	423.4
20°	2768.2	2710.8	2200.8	1425.7	719.5	464.0	419.8	411.9	407.5	405.7	403.9
22.5°	2867.2	2769.1	2090.3	1133.1	522.4	410.1	396.9	389.8	381.8	378.3	377.4
25°	2963.6	2802.7	1934.8	860.0	418.1	383.6	373.0	359.7	349.1	344.7	342.9
27.5°	3057.3	2823.9	1740.3	636.4	373.0	358.8	339.4	320.8	312.9	311.1	309.3
30°	3157.1	2831.0	1519.3	474.6	345.6	327.9	299.6	278.4	274.0	274.9	274.9
32.5°	3279.1	2841.6	1296.6	388.9	322.6	290.8	257.2	235.1	231.6	235.1	234.2
35°	3424.9	2862.8	1081.8	358.0	302.3	252.8	216.5	198.0	194.4	197.1	196.2
37.5°	3622.9	2897.3	881.2	351.8	285.5	221.0	182.1	167.0	167.0	167.9	167.0
40°	3886.3	2989.2	701.8	347.4	276.6	197.1	153.8	147.6	150.3	152.0	152.0
42.5°	4207.2	3184.5	580.7	342.1	266.9	186.5	139.6	137.0	141.4	143.2	143.2
45°	4566.9	3432.0	538.3	333.2	258.1	193.6	133.5	129.9	135.2	136.1	137.0
47.5°	4939.0	3674.2	533.0	323.5	249.2	204.2	131.7	123.7	129.9	130.8	131.7
50°	5315.5	3832.4	538.3	308.5	235.1	204.2	132.6	117.6	122.9	125.5	126.4
52.5°	5694.7	3904.9	534.7	275.8	210.4	191.8	132.6	112.2	117.6	119.3	119.3
55°	6062.4	3890.7	480.8	227.2	178.5	169.7	129.0	107.8	111.4	112.2	112.2
57.5°	6353.2	3693.6	380.9	176.8	145.0	141.4	117.6	102.5	105.2	104.3	104.3
60°	6505.2	3260.5	272.2	136.1	114.0	111.4	103.4	95.5	97.2	92.8	91.9
62.5°	6506.9	2687.8	182.1	107.8	91.0	88.4	88.4	85.7	84.0	75.1	72.5
65°	6368.2	2052.3	121.1	85.7	73.4	68.9	74.2	73.4	67.2	54.8	53.0
67.5°	6053.5	1345.2	91.9	67.2	56.6	53.9	59.2	61.9	57.5	46.0	45.1
70°	5406.5	783.1	76.0	52.1	42.4	39.8	47.7	53.0	47.7	37.1	35.4
72.5°	4490.9	422.5	61.9	38.9	29.2	26.5	38.0	43.3	38.0	27.4	26.5
75°	2914.1	226.3	47.7	25.6	15.0	16.8	28.3	31.8	26.5	17.7	15.9
77.5°	978.4	99.9	30.1	12.4	7.1	7.1	16.8	19.4	12.4	6.2	5.3
80°	218.3	41.5	12.4	5.3	2.7	2.7	3.5	3.5	1.8	0.0	0.0
82.5°	71.6	16.8	5.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.4	6.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.6	0.9	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)