

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: P950912

Luminaire Tested: **GALN-SB5B-722-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5B-722-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19895 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 182.7
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

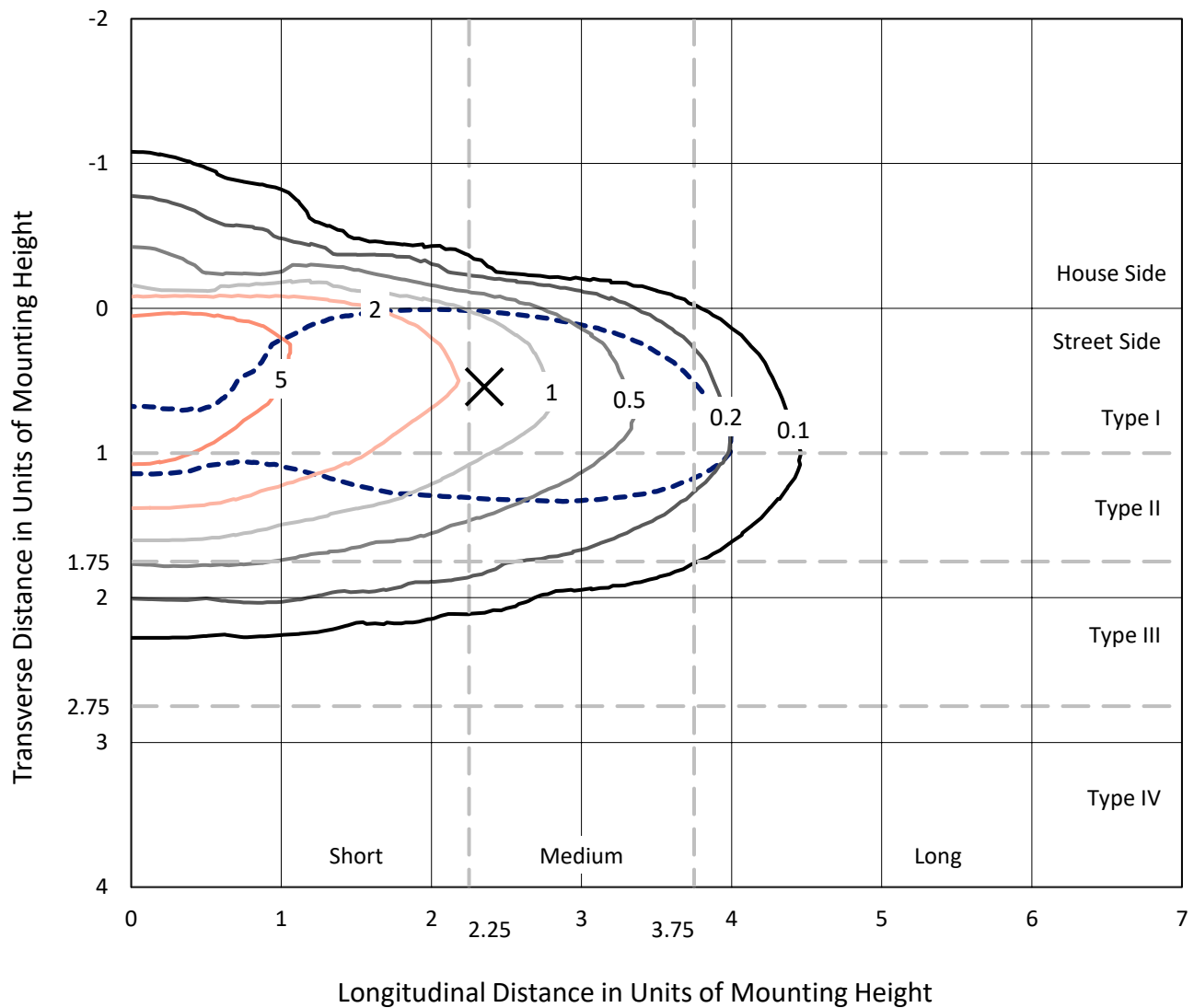


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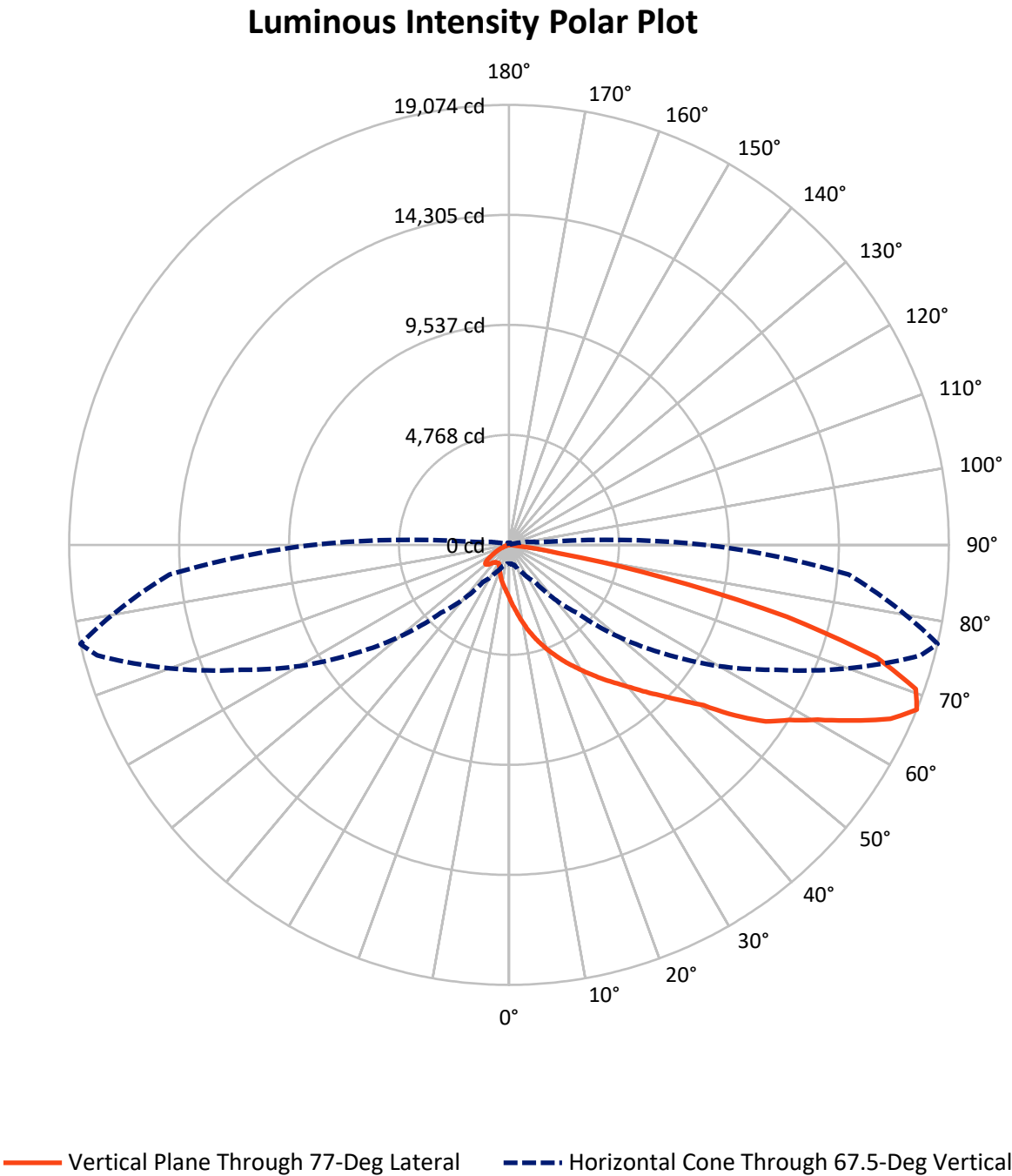
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1463.7	0.0	1463.7
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	18431.3	0.0	18431.3
	% Fixture	92.6	0.0	92.6
Total	Lumens	19895.0	0.0	19895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.2	1.2
10°-20°	820.0	4.1
20°-30°	1582.4	8.0
30°-40°	2747.1	13.8
40°-50°	3988.6	20.0
50°-60°	4580.4	23.0
60°-70°	3976.7	20.0
70°-80°	1873.0	9.4
80°-90°	92.6	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°	19895.0	100.0
0°-180°	19895.0	100.0

Coefficient of Utilization



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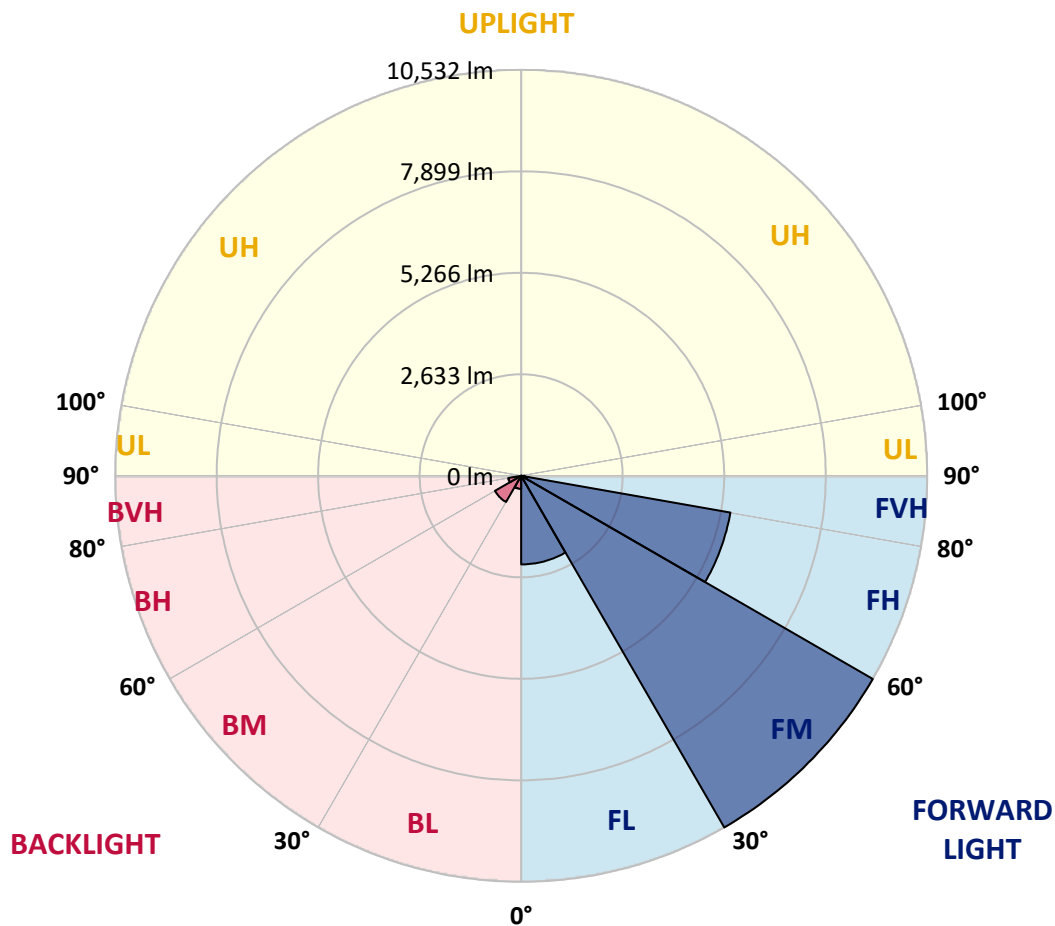
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2297.7	11.5			
FM	(30°-60°)	10531.9	52.9			
FH	(60°-80°)	5510.9	27.7			G3/7500
FVH	(80°-90°)	90.9	0.5			G1/100
BL	(0°-30°)	338.9	1.7	B1/500		
BM	(30°-60°)	784.3	3.9	B1/1000		
BH	(60°-80°)	338.9	1.7	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2294.2	2294.2	2294.2	2294.2	2294.2	2294.2	2294.2	2294.2	2294.2	2294.2	2294.2
2.5°	3176.3	3196.0	3167.6	3113.3	3031.7	2978.6	2848.9	2726.6	2590.7	2547.4	2411.6
5°	3871.8	3889.1	3857.0	3797.7	3689.0	3585.2	3414.7	3159.0	2893.4	2808.1	2567.2
7.5°	4387.0	4396.9	4384.5	4330.2	4226.4	4109.0	3918.8	3616.1	3222.0	3128.1	2758.7
10°	4757.6	4789.7	4786.0	4765.0	4695.9	4600.7	4398.1	4053.4	3590.1	3469.1	2974.9
12.5°	5003.5	5039.3	5060.3	5107.3	5103.5	5043.0	4865.1	4500.7	3957.1	3815.0	3218.3
15°	5075.1	5113.4	5193.7	5302.4	5398.8	5429.7	5304.9	4939.2	4361.1	4179.4	3467.8
17.5°	5034.4	5093.7	5190.0	5361.7	5573.0	5712.6	5699.0	5363.0	4728.0	4520.4	3712.5
20°	5124.5	5181.4	5256.7	5401.3	5647.1	5900.4	6001.7	5768.2	5092.4	4875.0	3969.4
22.5°	5623.7	5613.8	5621.2	5644.7	5791.7	6042.5	6251.3	6136.4	5453.2	5230.8	4241.2
25°	6414.3	6369.9	6294.5	6167.2	6130.2	6251.3	6468.7	6462.5	5833.7	5595.2	4519.2
27.5°	7321.1	7313.7	7137.1	6830.7	6657.7	6610.8	6714.5	6780.0	6210.5	5956.0	4798.4
30°	8189.6	8209.4	7971.0	7630.0	7312.5	7128.4	7034.5	7081.5	6593.5	6345.1	5086.2
32.5°	8945.7	8966.7	8707.3	8308.2	7915.4	7693.0	7495.3	7379.2	7011.0	6740.5	5402.5
35°	9584.4	9605.4	9307.7	8866.7	8447.8	8246.5	8022.9	7705.4	7431.1	7179.1	5754.6
37.5°	10155.2	10149.0	9750.0	9305.2	8893.8	8734.5	8617.1	8106.9	7863.5	7620.1	6145.0
40°	10492.5	10518.4	10177.4	9687.0	9287.9	9171.8	9164.4	8604.7	8362.6	8126.6	6572.5
42.5°	10591.3	10637.0	10389.9	9987.2	9625.2	9499.2	9693.2	9143.4	8943.2	8713.5	7055.5
45°	10413.4	10457.9	10345.5	10066.3	9855.0	9773.5	10147.8	9701.8	9563.4	9336.1	7600.3
47.5°	9894.5	9950.1	9977.3	9918.0	9915.5	9998.3	10555.5	10289.9	10299.7	10067.5	8231.6
50°	8890.1	8984.0	9233.6	9443.6	9768.5	10176.2	10952.1	10927.3	11130.0	10929.8	9054.4
52.5°	7064.2	7197.6	8057.4	8631.9	9362.1	10142.8	11388.2	11950.3	12586.5	12293.7	10214.5
55°	5676.8	5676.8	6376.0	7450.9	8568.9	9922.9	11578.4	12614.9	13578.6	13509.4	11031.1
57.5°	4627.9	4683.5	5129.5	6079.5	7421.2	9399.1	11695.8	13032.5	14377.9	14327.2	11829.2
60°	2856.3	2976.1	3818.7	4756.4	6115.4	8466.4	11621.7	13455.0	15347.7	15388.5	12790.4
62.5°	1608.5	1653.0	2028.6	3422.1	4755.2	7212.4	11054.6	13691.0	16588.1	16761.0	13781.2
65°	1110.6	1132.9	1277.4	2129.9	3296.1	5742.3	9946.4	13544.0	17830.9	18180.5	14621.3
67.5°	806.7	817.9	908.0	1300.9	1955.7	4163.4	8209.4	12802.7	18489.4	19073.7	14781.9
70°	620.2	627.6	693.1	854.9	1155.1	2569.7	5962.2	11328.9	18012.5	18710.5	13959.1
72.5°	504.1	511.5	562.1	632.5	766.0	1519.6	3613.6	9200.2	15907.3	16661.0	11883.6
75°	425.0	434.9	480.6	526.3	600.4	976.0	1695.0	6406.9	11962.6	12456.8	8263.8
77.5°	236.0	217.4	390.4	436.1	506.5	617.7	793.1	3770.5	6699.7	6836.8	3666.7
80°	147.0	152.0	310.1	350.9	389.2	311.3	363.2	1451.6	2322.6	2206.5	710.4
82.5°	8.6	19.8	238.4	253.3	266.9	133.4	137.1	492.9	559.6	513.9	126.0
85°	0.0	0.0	108.7	87.7	92.7	38.3	39.5	114.9	75.4	81.5	24.7
87.5°	0.0	0.0	0.0	2.5	0.0	3.7	7.4	9.9	3.7	4.9	8.6
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°	2294.2	2294.2	2294.2	2294.2	2294.2	2294.2	2294.2	2294.2	2294.2	2294.2	2294.2
2.5°	2325.1	2238.6	2063.2	1891.4	1751.8	1622.1	1529.5	1441.7	1397.3	1394.8	1392.3
5°	2395.5	2213.9	1863.0	1552.9	1303.4	1103.2	973.5	880.9	833.9	817.9	815.4
7.5°	2494.3	2221.3	1687.6	1256.4	962.4	790.7	716.5	686.9	677.0	665.9	663.4
10°	2619.1	2238.6	1530.7	1011.8	758.6	672.1	642.4	630.1	622.7	615.2	612.8
12.5°	2758.7	2254.7	1375.0	840.1	667.1	622.7	601.7	586.8	576.9	568.3	565.8
15°	2894.6	2264.5	1213.2	720.3	620.2	584.4	562.1	546.1	532.5	522.6	521.3
17.5°	3029.3	2278.1	1061.2	648.6	581.9	546.1	523.8	504.1	492.9	481.8	480.6
20°	3178.8	2275.7	917.9	597.9	543.6	507.8	484.3	465.8	454.6	442.3	441.0
22.5°	3317.1	2263.3	791.9	554.7	504.1	469.5	443.5	425.0	413.9	404.0	402.7
25°	3476.5	2253.4	686.9	515.2	467.0	432.4	404.0	386.7	374.3	365.7	364.5
27.5°	3629.7	2238.6	610.3	479.3	431.2	397.8	370.6	350.9	339.7	333.6	333.6
30°	3780.4	2234.9	581.9	444.8	399.0	365.7	338.5	320.0	311.3	308.9	307.6
32.5°	3962.0	2244.8	594.2	432.4	369.4	336.0	310.1	296.5	287.9	287.9	287.9
35°	4156.0	2242.3	612.8	443.5	349.6	306.4	286.6	278.0	269.3	269.3	269.3
37.5°	4399.4	2246.0	627.6	462.0	342.2	281.7	270.6	259.4	254.5	254.5	254.5
40°	4762.6	2368.3	620.2	478.1	339.7	264.4	242.1	238.4	234.7	234.7	234.7
42.5°	5207.3	2633.9	630.1	479.3	338.5	252.0	222.4	229.8	221.1	219.9	218.7
45°	5694.1	2924.3	693.1	453.4	337.3	245.8	212.5	221.1	207.6	207.6	207.6
47.5°	6177.1	3212.1	757.3	416.3	333.6	244.6	203.8	198.9	195.2	196.4	196.4
50°	6843.0	3446.8	782.0	365.7	324.9	242.1	187.8	189.0	186.5	189.0	189.0
52.5°	7568.2	3496.3	752.4	308.9	300.2	234.7	176.7	181.6	180.4	182.8	182.8
55°	8020.4	3443.1	621.4	257.0	261.9	205.1	165.5	175.4	175.4	175.4	175.4
57.5°	8487.4	3217.0	441.0	208.8	217.4	168.0	155.7	169.3	168.0	166.8	166.8
60°	8823.4	2851.4	290.3	171.7	173.0	138.4	144.5	159.4	158.1	152.0	152.0
62.5°	9074.2	2447.4	186.5	145.8	132.2	124.8	132.2	144.5	139.6	126.0	123.5
65°	9045.8	1887.7	143.3	124.8	108.7	108.7	114.9	126.0	111.2	89.0	86.5
67.5°	8518.3	1277.4	118.6	105.0	91.4	90.2	95.1	105.0	95.1	75.4	72.9
70°	7575.6	835.1	95.1	81.5	72.9	66.7	76.6	90.2	80.3	60.5	58.1
72.5°	6148.7	509.0	71.7	59.3	53.1	43.2	60.5	74.1	64.2	44.5	42.0
75°	3978.1	259.4	49.4	38.3	28.4	25.9	44.5	55.6	44.5	27.2	23.5
77.5°	1522.0	108.7	27.2	17.3	14.8	12.4	24.7	33.4	18.5	6.2	4.9
80°	292.8	45.7	13.6	8.6	7.4	4.9	3.7	2.5	0.0	0.0	0.0
82.5°	50.7	14.8	4.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	0.0	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)