

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: P955185

Luminaire Tested: **GALN-SB8B-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955185
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-SB8B-722-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 450mA 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: 32071 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 292.8
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

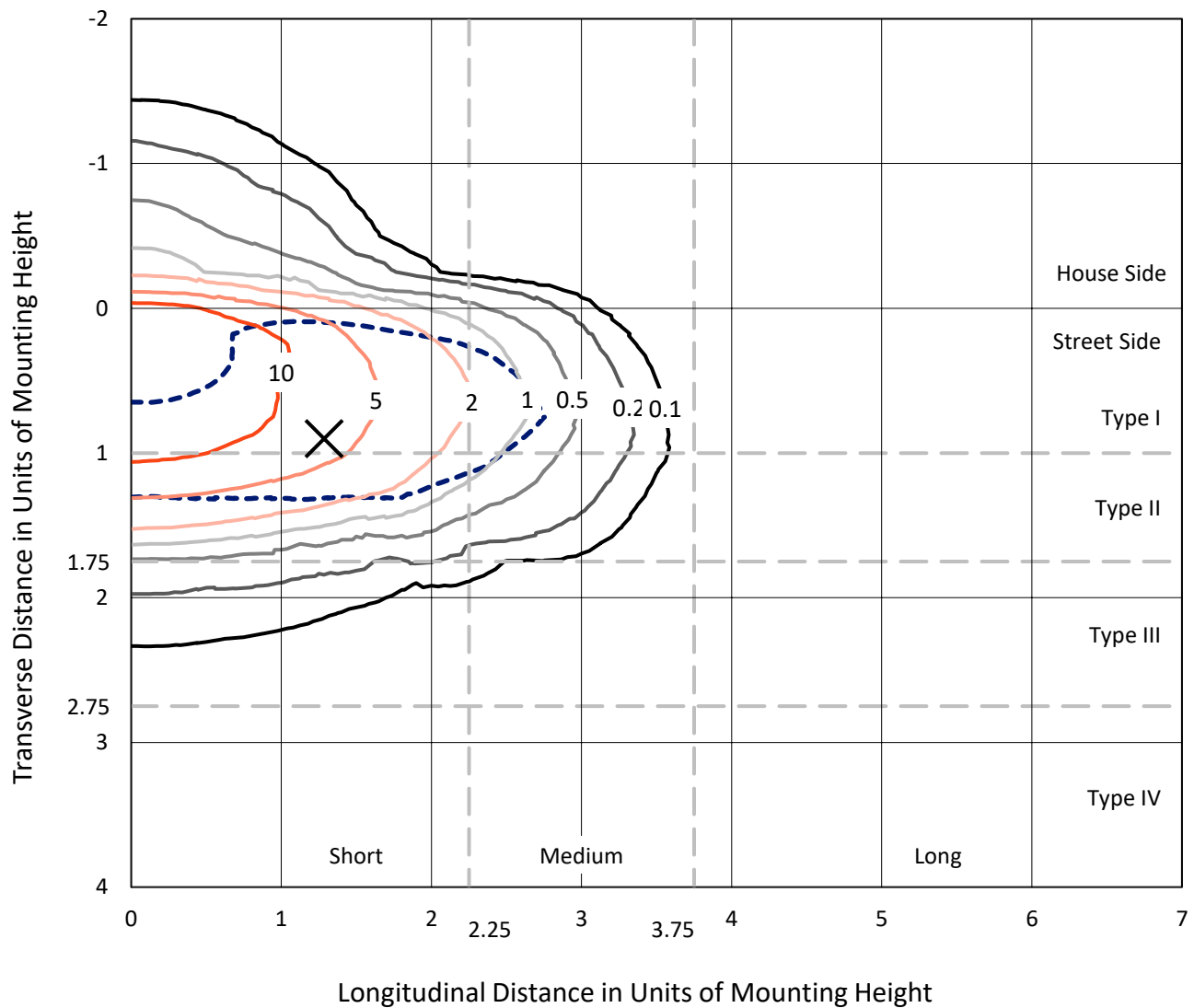


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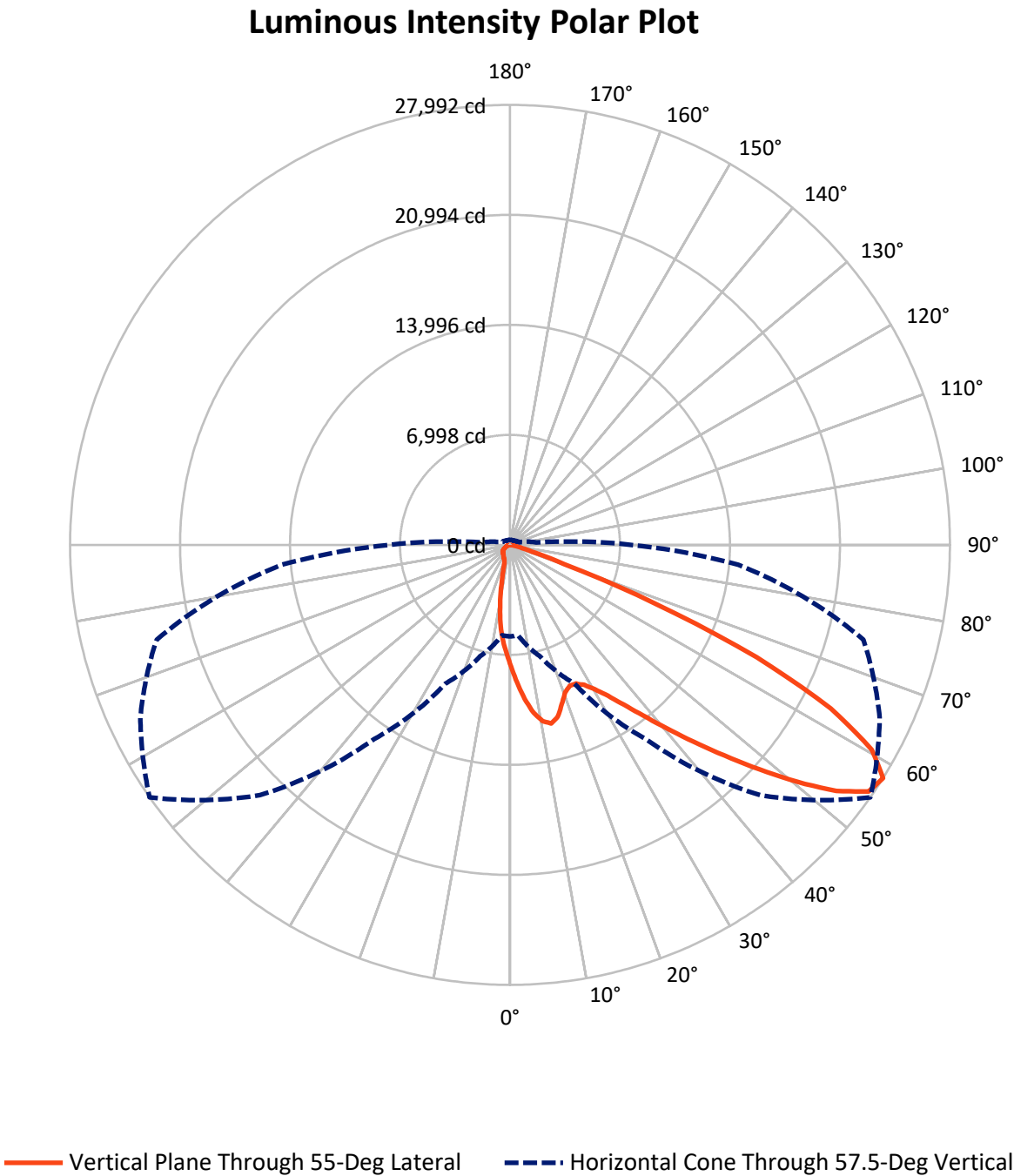
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2504.6	0.0	2504.6
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	29566.4	0.0	29566.4
	% Fixture	92.2	0.0	92.2
Total	Lumens	32071.0	0.0	32071.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.1	2.2
10°-20°	1736.9	5.4
20°-30°	2779.1	8.7
30°-40°	4703.7	14.7
40°-50°	7722.6	24.1
50°-60°	8487.6	26.5
60°-70°	4868.5	15.2
70°-80°	994.8	3.1
80°-90°	58.7	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°	32071.0	100.0
0°-180°	32071.0	100.0

Coefficient of Utilization



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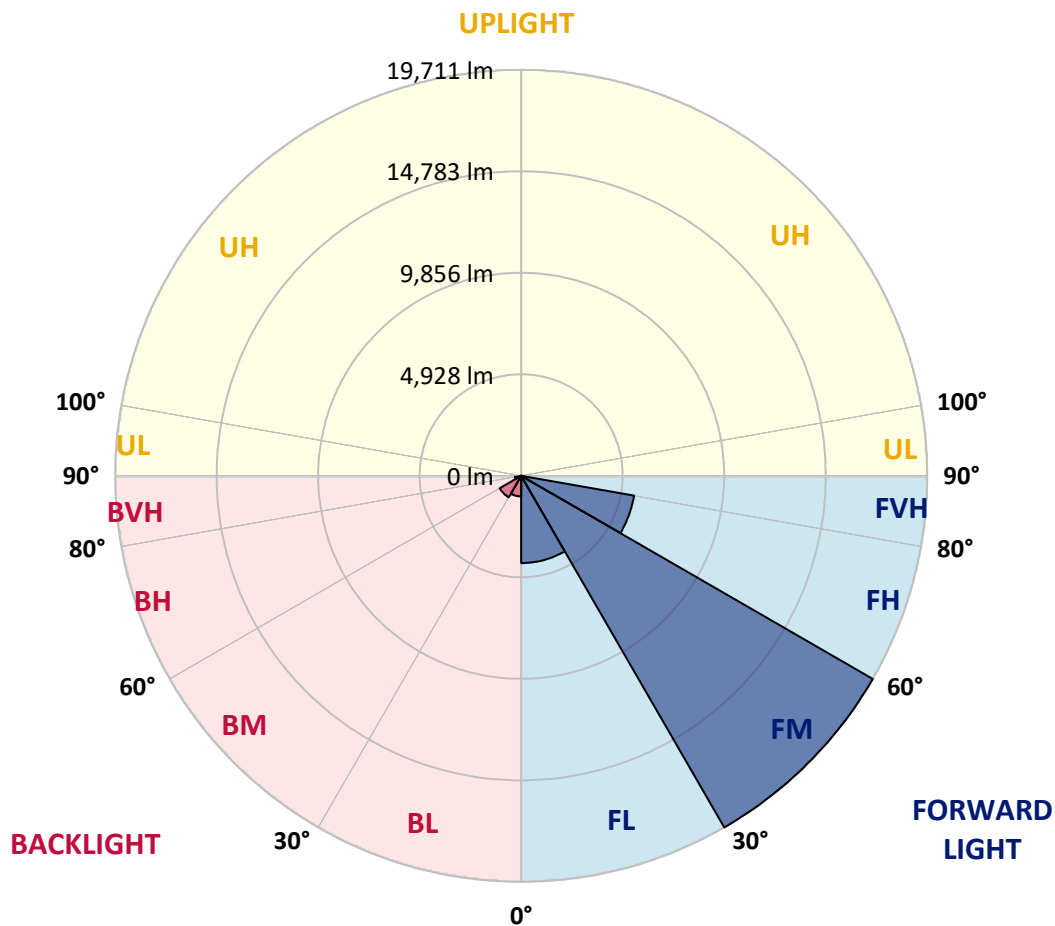
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4235.2	13.2			
FM	(30°-60°)	19711.1	61.5			
FH	(60°-80°)	5565.4	17.4			G3/7500
FVH	(80°-90°)	54.7	0.2			G1/100
BL	(0°-30°)	999.9	3.1	B2/1000		
BM	(30°-60°)	1202.9	3.8	B2/2500		
BH	(60°-80°)	297.9	0.9	B1/500		G1/500
BVH	(80°-90°)	4.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7728.3	7728.3	7728.3	7728.3	7728.3	7728.3	7728.3	7728.3	7728.3	7728.3	7728.3
2.5°	9589.2	9468.6	9450.8	9427.0	9197.7	9025.6	8776.4	8503.5	8197.0	7884.5	7746.1
5°	11078.3	10983.4	10965.6	10854.8	10593.8	10301.1	9858.2	9298.5	8727.0	8054.6	7765.9
7.5°	11367.0	11349.2	11430.3	11426.4	11390.8	11159.4	10785.6	10119.2	9260.9	8264.2	7817.3
10°	10079.6	10125.1	10366.4	10578.0	11149.5	11481.7	11400.7	10850.9	9810.7	8503.5	7874.7
12.5°	8906.9	8853.6	9025.6	9264.9	9929.3	10918.1	11655.8	11462.0	10439.6	8774.5	7959.7
15°	8171.3	8149.5	8246.4	8357.2	8863.4	9860.1	11359.1	11958.3	11044.7	9094.8	8088.2
17.5°	7936.0	7918.2	7947.8	7975.5	8303.8	9075.0	10653.1	12262.9	11624.1	9460.7	8230.6
20°	8127.8	8104.1	8100.1	8078.3	8214.8	8740.8	10014.4	12284.6	12144.2	9792.9	8353.2
22.5°	8687.4	8659.8	8562.9	8475.8	8487.7	8786.3	9729.6	12067.1	12535.8	10103.4	8430.4
25°	9701.9	9656.4	9454.7	9162.1	8976.2	9102.7	9773.1	11780.3	12909.5	10346.6	8392.8
27.5°	10971.5	10912.2	10653.1	10218.1	9792.9	9638.6	10087.6	11582.6	13220.0	10532.5	8311.7
30°	12215.4	12138.3	11883.2	11545.0	10924.1	10437.6	10655.1	11669.6	13589.8	10726.3	8204.9
32.5°	13558.2	13485.0	13146.8	12727.6	12213.4	11558.9	11432.3	12094.8	14042.7	10997.2	8129.8
35°	15256.9	15142.2	14661.7	14090.1	13544.3	12881.9	12484.4	12828.5	14645.8	11410.5	8171.3
37.5°	17191.0	17036.7	16518.6	15729.5	15017.6	14276.0	13765.8	13837.0	15529.8	11964.3	8299.8
40°	19014.3	18873.9	18395.3	17651.7	16757.9	15858.1	15314.3	15156.1	16750.0	12638.6	8525.3
42.5°	20107.9	19981.3	19779.6	19465.2	18711.7	17794.1	17107.9	16765.8	18193.6	13445.5	8800.2
45°	20169.2	20058.4	20329.4	20695.2	20546.9	19935.8	19099.3	18472.4	19643.1	14202.9	9084.9
47.5°	19188.3	19113.2	19935.8	21213.3	21850.1	22107.2	21335.9	20036.7	20839.6	14746.7	9201.6
50°	16514.6	16487.0	18179.7	20525.1	22346.5	24009.6	23695.2	21492.2	21767.0	15027.5	9090.9
52.5°	14319.5	14218.7	15205.5	18322.1	21624.7	25010.3	26001.0	22920.0	22415.7	15080.9	8831.8
55°	10860.8	10771.8	12009.7	14636.0	19297.1	24654.3	27687.9	24393.3	22880.4	14944.5	8367.1
57.5°	5825.9	5770.5	7334.8	9741.5	15084.9	22518.5	27992.4	25951.6	23272.0	14582.6	7716.5
60°	2268.3	2258.4	2843.7	4726.4	9168.0	18320.2	26455.9	26887.0	23517.2	14137.6	7172.6
62.5°	1372.4	1402.1	1497.0	2121.9	4050.1	11380.9	22914.0	25823.0	23681.3	13730.2	6723.7
65°	1135.1	1137.1	1149.0	1457.5	1940.0	4762.0	17250.3	22322.7	23275.9	13004.5	6086.9
67.5°	973.0	990.8	1036.2	1156.9	1368.5	2088.3	9931.3	17291.8	20809.9	11315.6	5094.2
70°	767.3	791.0	848.4	951.2	1056.0	1307.2	3670.4	11505.5	15897.6	8529.2	3852.3
72.5°	646.7	644.7	674.3	773.2	838.5	919.6	1412.0	6446.9	9239.2	4071.8	1906.4
75°	500.3	520.1	557.7	646.7	686.2	666.4	765.3	2355.3	3310.4	1234.0	648.6
77.5°	391.6	407.4	441.0	528.0	567.6	472.6	441.0	842.4	1063.9	443.0	292.7
80°	176.0	189.8	300.6	389.6	462.8	326.3	239.3	431.1	472.6	201.7	148.3
82.5°	31.6	53.4	176.0	205.7	237.3	211.6	124.6	223.5	231.4	81.1	51.4
85°	2.0	4.0	61.3	75.1	94.9	69.2	37.6	89.0	77.1	27.7	19.8
87.5°	0.0	0.0	0.0	2.0	2.0	9.9	11.9	15.8	11.9	9.9	7.9
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°	7728.3	7728.3	7728.3	7728.3	7728.3	7728.3	7728.3	7728.3	7728.3	7728.3
2.5°	7603.7	7322.9	7050.0	6826.6	6696.0	6474.5	6328.2	6304.5	6243.2	6296.6
5°	7457.4	6955.1	6446.9	5992.0	5618.3	5135.7	4775.8	4623.5	4491.0	4536.5
7.5°	7388.2	6595.2	5804.2	5027.0	4228.0	3456.8	2883.3	2644.0	2462.1	2487.8
10°	7295.2	6221.4	4981.5	3794.9	2725.1	1963.7	1568.2	1421.9	1340.8	1342.8
12.5°	7224.0	5774.5	4026.3	2572.8	1659.2	1253.8	1131.2	1095.6	1071.8	1073.8
15°	7188.4	5248.5	3083.0	1714.5	1186.5	1062.0	1032.3	1016.5	1000.6	998.7
17.5°	7129.1	4663.1	2256.4	1251.8	1038.2	994.7	969.0	951.2	931.4	927.5
20°	7040.1	3998.6	1649.3	1058.0	973.0	939.3	903.7	880.0	856.3	852.3
22.5°	6876.0	3296.6	1267.6	978.9	925.5	887.9	844.4	816.7	793.0	789.0
25°	6571.4	2638.1	1067.9	929.5	884.0	838.5	791.0	753.5	731.7	727.7
27.5°	6185.8	2072.5	969.0	884.0	830.6	789.0	735.7	700.1	680.3	676.3
30°	5731.0	1595.9	911.7	832.6	767.3	731.7	684.2	654.6	642.7	642.7
32.5°	5240.5	1275.5	887.9	781.1	711.9	672.4	634.8	622.9	619.0	617.0
35°	4779.8	1107.4	876.1	739.6	662.5	624.9	609.1	611.1	619.0	619.0
37.5°	4370.4	1054.0	870.1	709.9	619.0	585.4	595.2	613.0	605.1	605.1
40°	4000.6	1060.0	866.2	688.2	583.4	563.6	583.4	569.5	549.8	547.8
42.5°	3717.8	1109.4	858.3	670.4	561.6	547.8	539.9	518.1	516.1	520.1
45°	3512.2	1152.9	856.3	662.5	537.9	512.2	502.3	480.5	520.1	530.0
47.5°	3268.9	1152.9	856.3	634.8	498.3	488.5	472.6	448.9	488.5	498.3
50°	2954.5	1079.8	822.7	603.2	466.7	460.8	433.1	403.4	395.5	401.4
52.5°	2557.0	947.3	737.6	559.7	435.1	423.2	389.6	367.8	361.9	361.9
55°	2104.1	793.0	622.9	496.4	401.4	379.7	356.0	346.1	340.1	336.2
57.5°	1710.6	650.6	500.3	441.0	369.8	342.1	334.2	322.3	312.5	306.5
60°	1404.1	512.2	413.3	391.6	338.2	312.5	310.5	294.7	268.9	265.0
62.5°	1083.7	375.7	348.1	340.1	306.5	284.8	280.8	249.2	209.6	201.7
65°	765.3	292.7	280.8	298.6	272.9	253.1	243.2	195.8	154.3	148.3
67.5°	537.9	245.2	221.5	261.0	237.3	211.6	205.7	166.1	128.5	124.6
70°	383.6	199.7	181.9	223.5	189.8	185.9	174.0	138.4	104.8	100.9
72.5°	270.9	152.3	140.4	193.8	130.5	160.2	142.4	106.8	79.1	75.1
75°	199.7	108.8	98.9	112.7	94.9	120.6	100.9	71.2	49.4	47.5
77.5°	146.3	69.2	59.3	55.4	55.4	75.1	55.4	29.7	21.8	19.8
80°	102.8	31.6	27.7	23.7	21.8	17.8	7.9	4.0	2.0	2.0
82.5°	61.3	13.8	13.8	9.9	5.9	0.0	0.0	0.0	0.0	0.0
85°	13.8	5.9	5.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	2.0	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

(END OF REPORT)