

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: P947331

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947331
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-SB2D-722-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 900mA 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: 14334 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

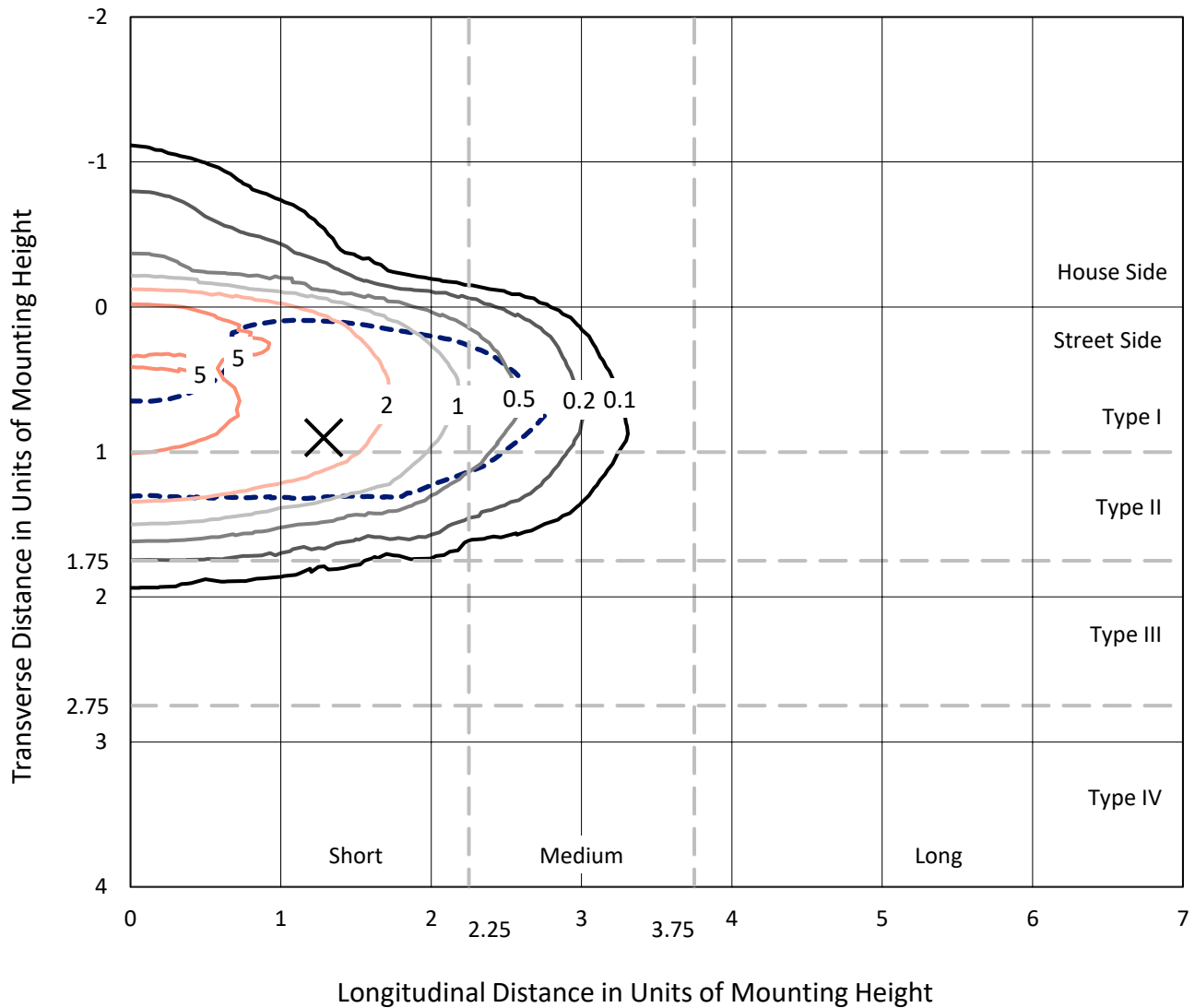


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

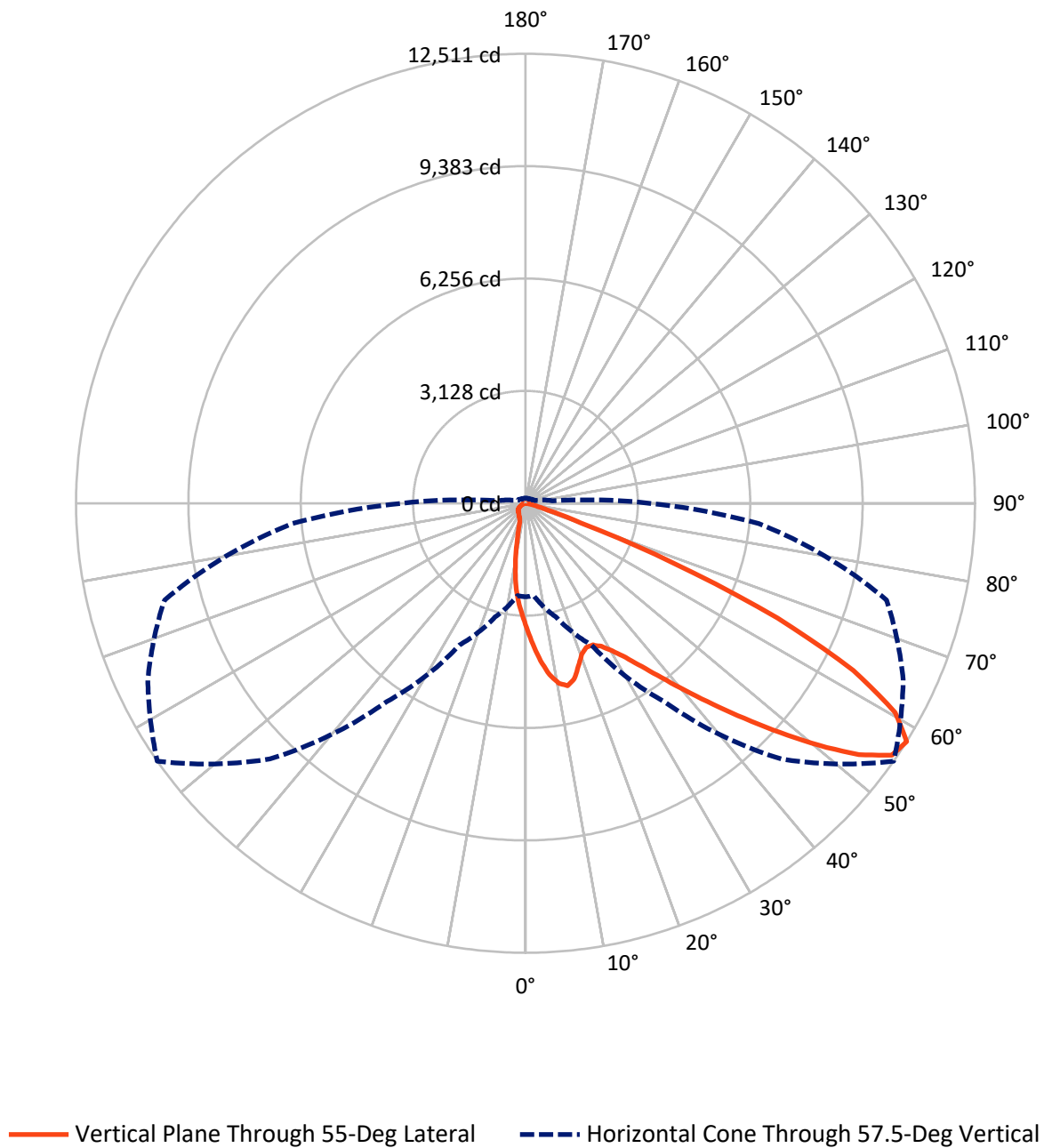


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1119.4	0.0	1119.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	13214.6	0.0	13214.6
	% Fixture	92.2	0.0	92.2
Total	Lumens	14334.0	0.0	14334.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.4	2.2
10°-20°	776.3	5.4
20°-30°	1242.1	8.7
30°-40°	2102.3	14.7
40°-50°	3451.6	24.1
50°-60°	3793.5	26.5
60°-70°	2176.0	15.2
70°-80°	444.6	3.1
80°-90°	26.2	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°	14334.0	100.0
0°-180°	14334.0	100.0

Coefficient of Utilization



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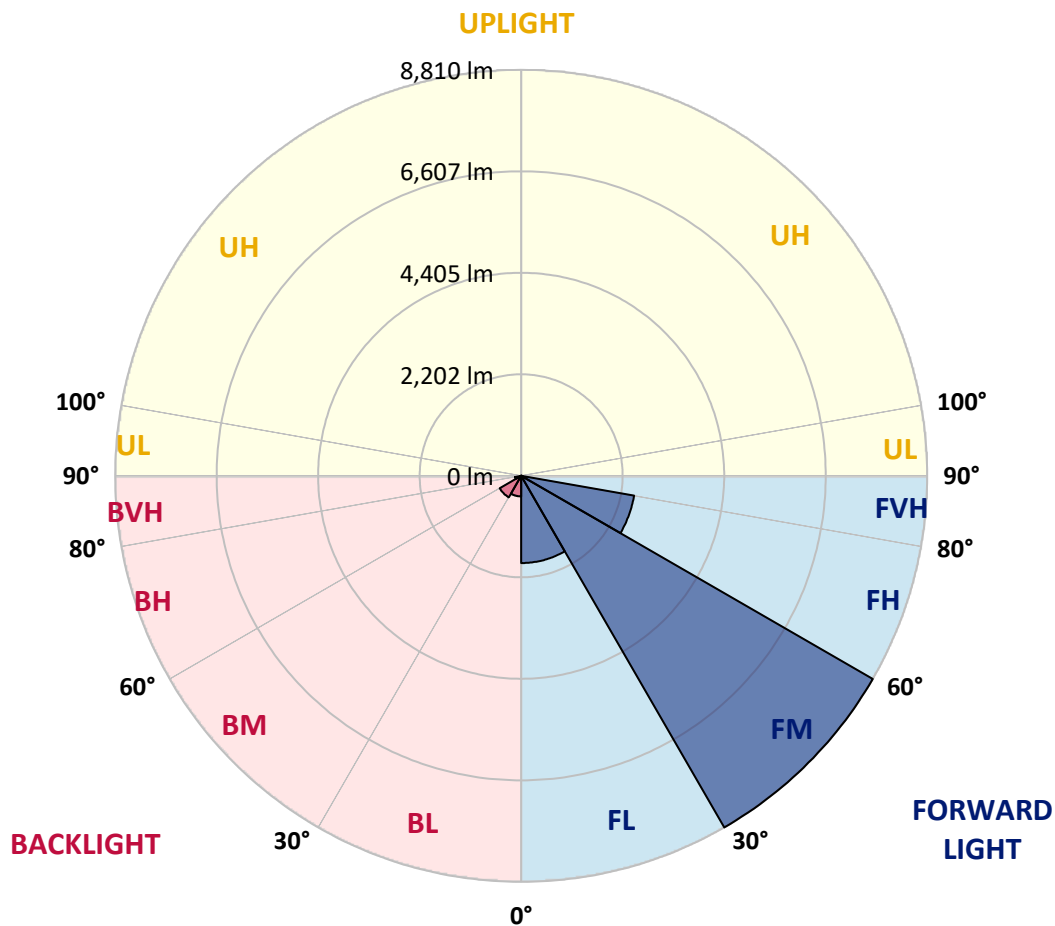
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1892.9	13.2			
FM	(30°-60°)	8809.8	61.5			
FH	(60°-80°)	2487.4	17.4			G2/5000
FVH	(80°-90°)	24.5	0.2			G1/100
BL	(0°-30°)	446.9	3.1	B1/500		
BM	(30°-60°)	537.6	3.8	B1/1000		
BH	(60°-80°)	133.1	0.9	B1/500		G1/500
BVH	(80°-90°)	1.8	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3454.1	3454.1	3454.1	3454.1	3454.1	3454.1	3454.1	3454.1	3454.1	3454.1	3454.1
2.5°	4285.9	4231.9	4224.0	4213.4	4110.9	4034.0	3922.6	3800.6	3663.6	3524.0	3462.1
5°	4951.4	4909.0	4901.0	4851.5	4734.9	4604.0	4406.1	4155.9	3900.5	3600.0	3470.9
7.5°	5080.5	5072.5	5108.7	5107.0	5091.1	4987.6	4820.6	4522.7	4139.1	3693.7	3493.9
10°	4505.1	4525.4	4633.2	4727.8	4983.2	5131.7	5095.5	4849.8	4384.8	3800.6	3519.5
12.5°	3980.9	3957.1	4034.0	4140.9	4437.9	4879.8	5209.5	5122.9	4665.9	3921.7	3557.6
15°	3652.1	3642.4	3685.7	3735.2	3961.5	4406.9	5076.9	5344.7	4936.4	4064.9	3615.0
17.5°	3546.9	3539.0	3552.2	3564.6	3711.3	4056.1	4761.4	5480.8	5195.4	4228.4	3678.6
20°	3632.7	3622.1	3620.3	3610.6	3671.6	3906.7	4475.9	5490.6	5427.8	4376.9	3733.4
22.5°	3882.8	3870.4	3827.1	3788.2	3793.5	3927.0	4348.6	5393.3	5602.8	4515.7	3767.9
25°	4336.2	4315.9	4225.8	4094.9	4011.9	4068.4	4368.1	5265.2	5769.9	4624.4	3751.1
27.5°	4903.7	4877.2	4761.4	4566.9	4376.9	4308.0	4508.6	5176.8	5908.6	4707.5	3714.9
30°	5459.6	5425.2	5311.1	5160.0	4882.5	4665.0	4762.3	5215.7	6073.9	4794.1	3667.2
32.5°	6059.8	6027.1	5875.9	5688.5	5458.7	5166.2	5109.6	5405.7	6276.3	4915.2	3633.6
35°	6819.0	6767.7	6553.0	6297.5	6053.6	5757.5	5579.8	5733.6	6545.9	5099.9	3652.1
37.5°	7683.4	7614.5	7382.9	7030.3	6712.1	6380.6	6152.6	6184.4	6941.0	5347.4	3709.6
40°	8498.4	8435.6	8221.7	7889.4	7489.9	7087.7	6844.6	6773.9	7486.3	5648.8	3810.3
42.5°	8987.1	8930.6	8840.4	8699.9	8363.1	7953.0	7646.3	7493.4	8131.5	6009.4	3933.2
45°	9014.5	8965.0	9086.1	9249.6	9183.3	8910.2	8536.4	8256.2	8779.4	6347.9	4060.5
47.5°	8576.1	8542.5	8910.2	9481.2	9765.8	9880.7	9536.0	8955.3	9314.2	6591.0	4112.6
50°	7381.1	7368.8	8125.4	9173.6	9987.7	10731.0	10590.5	9605.8	9728.7	6716.5	4063.1
52.5°	6400.1	6355.0	6796.0	8189.0	9665.1	11178.2	11621.0	10244.0	10018.6	6740.3	3947.3
55°	4854.2	4814.4	5367.7	6541.5	8624.7	11019.1	12375.0	10902.5	10226.3	6679.4	3739.6
57.5°	2603.9	2579.1	3278.3	4353.9	6742.1	10064.6	12511.1	11598.9	10401.3	6517.6	3448.8
60°	1013.8	1009.4	1271.0	2112.4	4097.6	8188.1	11824.3	12017.0	10510.9	6318.7	3205.8
62.5°	613.4	626.7	669.1	948.4	1810.2	5086.6	10241.3	11541.5	10584.3	6136.7	3005.1
65°	507.3	508.2	513.5	651.4	867.1	2128.3	7709.9	9977.1	10403.1	5812.3	2720.5
67.5°	434.9	442.8	463.1	517.1	611.6	933.4	4438.8	7728.5	9300.9	5057.5	2276.8
70°	342.9	353.5	379.2	425.1	472.0	584.2	1640.5	5142.3	7105.4	3812.1	1721.8
72.5°	289.0	288.1	301.4	345.6	374.8	411.0	631.1	2881.4	4129.4	1819.9	852.0
75°	223.6	232.5	249.2	289.0	306.7	297.9	342.1	1052.7	1479.6	551.5	289.9
77.5°	175.0	182.1	197.1	236.0	253.7	211.2	197.1	376.5	475.5	198.0	130.8
80°	78.7	84.9	134.3	174.1	206.8	145.8	106.9	192.7	211.2	90.2	66.3
82.5°	14.1	23.9	78.7	91.9	106.1	94.6	55.7	99.9	103.4	36.2	23.0
85°	0.9	1.8	27.4	33.6	42.4	30.9	16.8	39.8	34.5	12.4	8.8
87.5°	0.0	0.0	0.0	0.9	0.9	4.4	5.3	7.1	5.3	4.4	3.5
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°	3454.1	3454.1	3454.1	3454.1	3454.1	3454.1	3454.1	3454.1	3454.1	3454.1
2.5°	3398.5	3272.9	3151.0	3051.1	2992.8	2893.8	2828.4	2817.8	2790.4	2814.2
5°	3333.1	3108.5	2881.4	2678.1	2511.1	2295.4	2134.5	2066.5	2007.3	2027.6
7.5°	3302.1	2947.7	2594.1	2246.8	1889.7	1545.0	1288.7	1181.7	1100.4	1111.9
10°	3260.6	2780.6	2226.5	1696.1	1218.0	877.7	700.9	635.5	599.3	600.1
12.5°	3228.8	2580.9	1799.5	1149.9	741.6	560.4	505.6	489.7	479.1	479.9
15°	3212.8	2345.8	1377.9	766.3	530.3	474.6	461.4	454.3	447.2	446.4
17.5°	3186.3	2084.2	1008.5	559.5	464.0	444.6	433.1	425.1	416.3	414.5
20°	3146.6	1787.2	737.1	472.9	434.9	419.8	403.9	393.3	382.7	380.9
22.5°	3073.2	1473.4	566.6	437.5	413.6	396.9	377.4	365.0	354.4	352.7
25°	2937.1	1179.1	477.3	415.4	395.1	374.8	353.5	336.8	327.0	325.3
27.5°	2764.7	926.3	433.1	395.1	371.2	352.7	328.8	312.9	304.0	302.3
30°	2561.4	713.3	407.5	372.1	342.9	327.0	305.8	292.6	287.3	287.3
32.5°	2342.2	570.1	396.9	349.1	318.2	300.5	283.7	278.4	276.6	275.8
35°	2136.3	495.0	391.6	330.6	296.1	279.3	272.2	273.1	276.6	276.6
37.5°	1953.3	471.1	388.9	317.3	276.6	261.6	266.0	274.0	270.5	270.5
40°	1788.1	473.8	387.1	307.6	260.7	251.9	260.7	254.6	245.7	244.8
42.5°	1661.7	495.8	383.6	299.6	251.0	244.8	241.3	231.6	230.7	232.5
45°	1569.7	515.3	382.7	296.1	240.4	228.9	224.5	214.8	232.5	236.9
47.5°	1461.0	515.3	382.7	283.7	222.7	218.3	211.2	200.6	218.3	222.7
50°	1320.5	482.6	367.7	269.6	208.6	205.9	193.6	180.3	176.8	179.4
52.5°	1142.8	423.4	329.7	250.1	194.5	189.1	174.1	164.4	161.7	161.7
55°	940.4	354.4	278.4	221.8	179.4	169.7	159.1	154.7	152.0	150.3
57.5°	764.5	290.8	223.6	197.1	165.3	152.9	149.4	144.1	139.7	137.0
60°	627.5	228.9	184.7	175.0	151.1	139.7	138.8	131.7	120.2	118.4
62.5°	484.4	167.9	155.6	152.0	137.0	127.3	125.5	111.4	93.7	90.2
65°	342.1	130.8	125.5	133.5	122.0	113.1	108.7	87.5	68.9	66.3
67.5°	240.4	109.6	99.0	116.7	106.1	94.6	91.9	74.2	57.5	55.7
70°	171.5	89.3	81.3	99.9	84.9	83.1	77.8	61.9	46.8	45.1
72.5°	121.1	68.1	62.8	86.6	58.3	71.6	63.6	47.7	35.4	33.6
75°	89.3	48.6	44.2	50.4	42.4	53.9	45.1	31.8	22.1	21.2
77.5°	65.4	30.9	26.5	24.7	24.7	33.6	24.7	13.3	9.7	8.8
80°	46.0	14.1	12.4	10.6	9.7	8.0	3.5	1.8	0.9	0.9
82.5°	27.4	6.2	6.2	4.4	2.7	0.0	0.0	0.0	0.0	0.0
85°	6.2	2.7	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.9	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)