

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: P948066

Luminaire Tested: **GALN-SB3B-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948066
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-SB3B-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 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: 13361 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 109.2
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



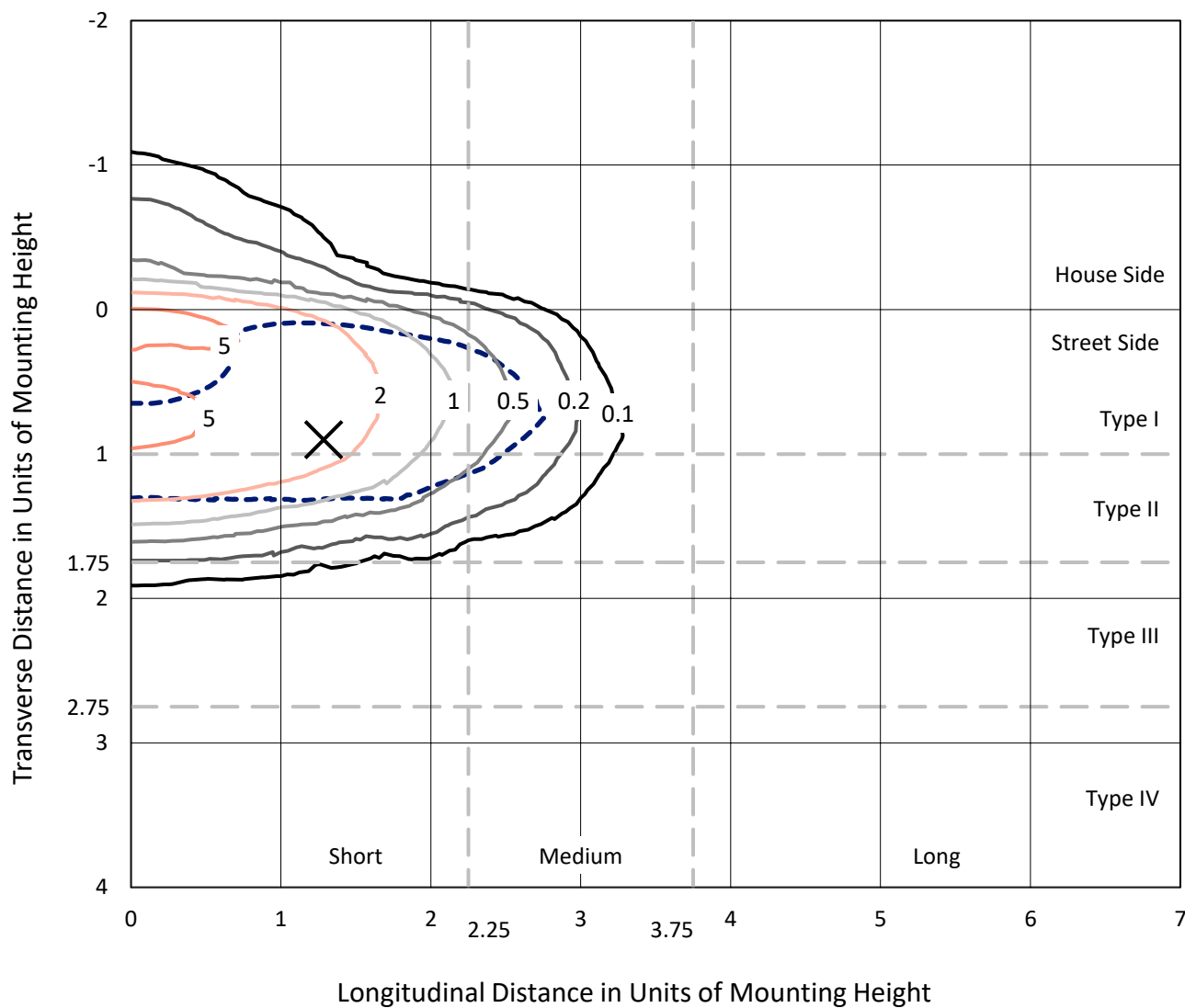
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Iso-Footcandle Lines of Horizontal Illumination

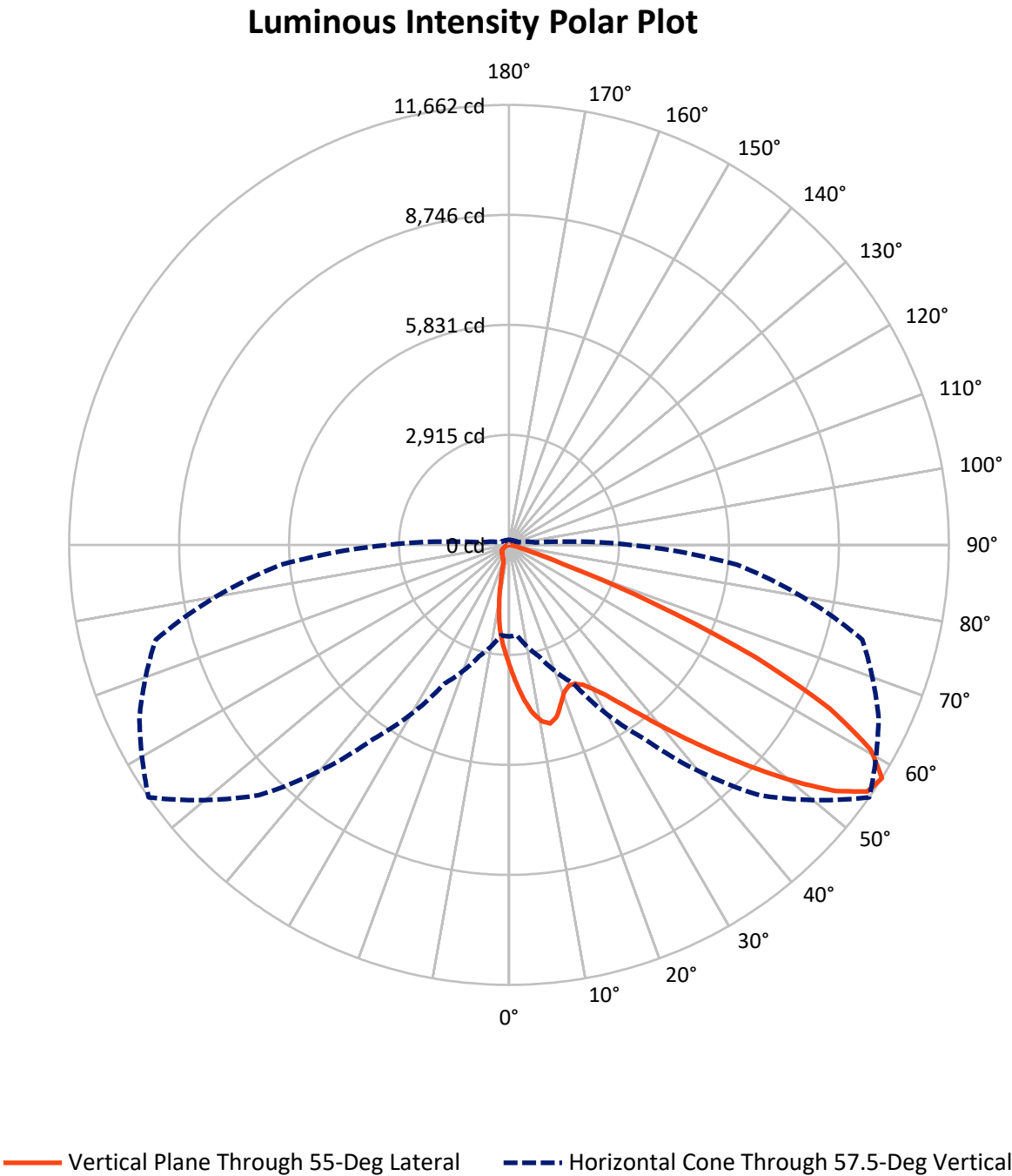
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
Type II - Short - N/A

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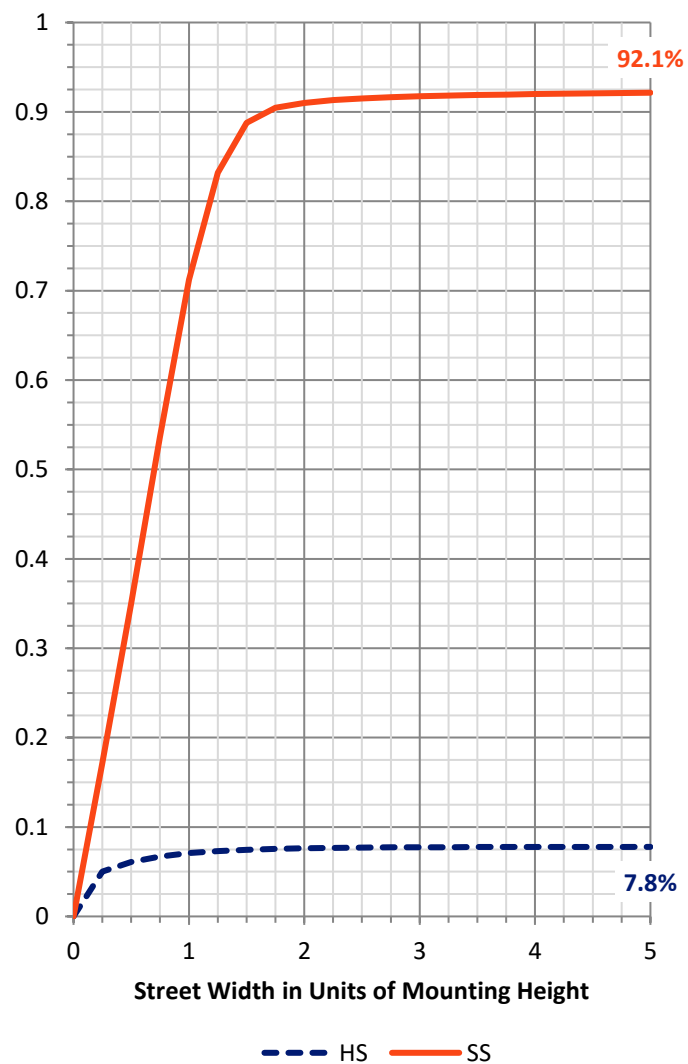
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1043.4	0.0	1043.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	12317.6	0.0	12317.6
	% Fixture	92.2	0.0	92.2
Total	Lumens	13361.0	0.0	13361.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.6	2.2
10°-20°	723.6	5.4
20°-30°	1157.8	8.7
30°-40°	1959.6	14.7
40°-50°	3217.3	24.1
50°-60°	3536.0	26.5
60°-70°	2028.3	15.2
70°-80°	414.4	3.1
80°-90°	24.4	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°	13361.0	100.0
0°-180°	13361.0	100.0

Coefficient of Utilization



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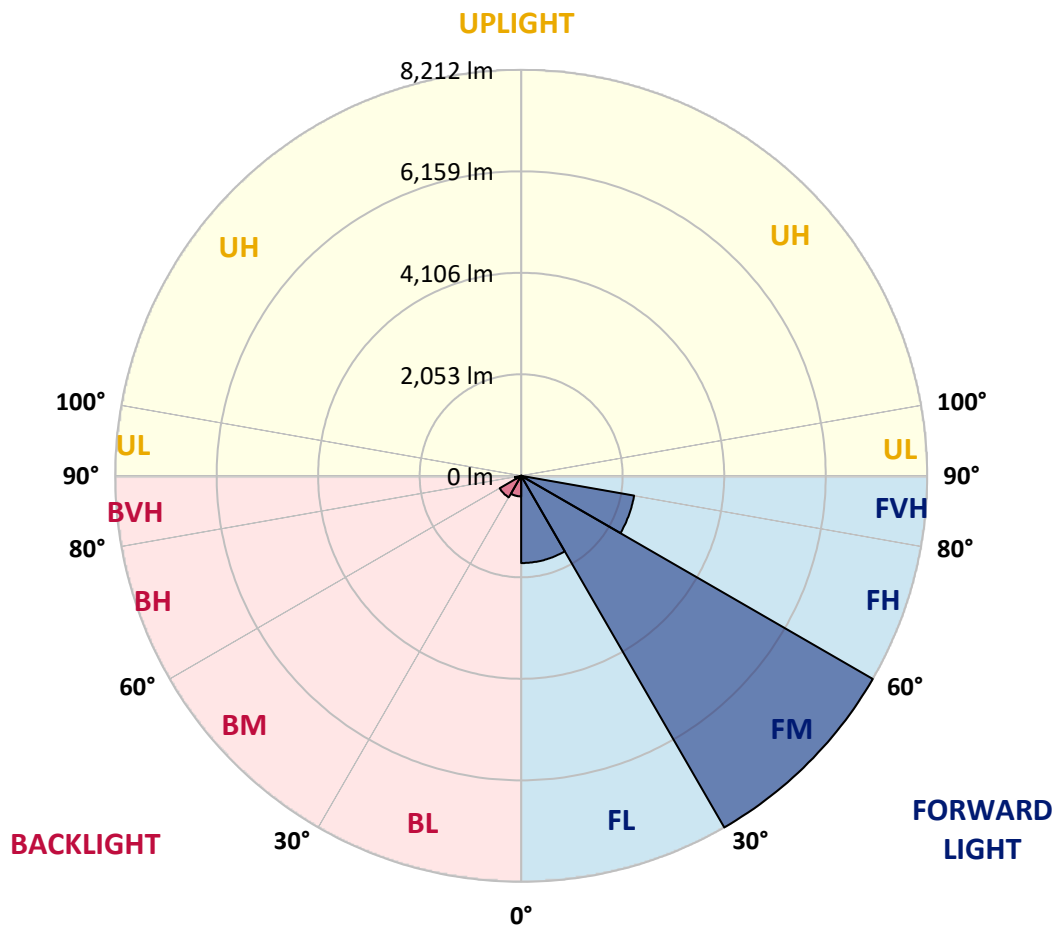
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1764.4	13.2			
FM	(30°-60°)	8211.8	61.5			
FH	(60°-80°)	2318.6	17.4			G2/5000
FVH	(80°-90°)	22.8	0.2			G1/100
BL	(0°-30°)	416.6	3.1	B1/500		
BM	(30°-60°)	501.1	3.8	B1/1000		
BH	(60°-80°)	124.1	0.9	B1/500		G1/500
BVH	(80°-90°)	1.6	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°	3219.7	3219.7	3219.7	3219.7	3219.7	3219.7	3219.7	3219.7	3219.7	3219.7	3219.7
2.5°	3994.9	3944.7	3937.3	3927.4	3831.8	3760.1	3656.3	3542.6	3414.9	3284.8	3227.1
5°	4615.3	4575.8	4568.3	4522.2	4413.5	4291.5	4107.0	3873.8	3635.7	3355.6	3235.3
7.5°	4735.6	4728.2	4762.0	4760.3	4745.5	4649.1	4493.4	4215.7	3858.2	3442.9	3256.7
10°	4199.2	4218.2	4318.7	4406.9	4645.0	4783.4	4749.6	4520.6	4087.2	3542.6	3280.6
12.5°	3710.7	3688.5	3760.1	3859.8	4136.6	4548.6	4855.9	4775.1	4349.2	3655.5	3316.1
15°	3404.2	3395.2	3435.5	3481.7	3692.6	4107.8	4732.3	4981.9	4601.3	3789.0	3369.6
17.5°	3306.2	3298.8	3311.1	3322.7	3459.4	3780.7	4438.2	5108.8	4842.7	3941.4	3428.9
20°	3386.1	3376.2	3374.6	3365.5	3422.3	3641.5	4172.1	5117.9	5059.4	4079.8	3480.0
22.5°	3619.2	3607.7	3567.3	3531.1	3536.0	3660.4	4053.4	5027.2	5222.5	4209.1	3512.1
25°	4041.9	4022.9	3938.9	3817.0	3739.5	3792.3	4071.6	4907.8	5378.2	4310.5	3496.5
27.5°	4570.8	4546.1	4438.2	4256.9	4079.8	4015.5	4202.5	4825.4	5507.5	4387.9	3462.7
30°	5089.0	5056.9	4950.6	4809.7	4551.0	4348.4	4439.0	4861.6	5661.6	4468.7	3418.2
32.5°	5648.4	5617.9	5477.1	5302.4	5088.2	4815.5	4762.8	5038.8	5850.3	4581.5	3386.9
35°	6356.1	6308.3	6108.1	5870.1	5642.7	5366.7	5201.1	5344.4	6101.6	4753.7	3404.2
37.5°	7161.9	7097.6	6881.8	6553.0	6256.4	5947.5	5734.9	5764.6	6469.8	4984.4	3457.8
40°	7921.5	7863.0	7663.6	7353.8	6981.4	6606.6	6380.0	6314.1	6978.2	5265.3	3551.7
42.5°	8377.1	8324.4	8240.3	8109.3	7795.4	7413.2	7127.3	6984.7	7579.6	5601.5	3666.2
45°	8402.6	8356.5	8469.4	8621.8	8560.0	8305.4	7956.9	7695.7	8183.5	5917.0	3784.8
47.5°	7994.0	7962.7	8305.4	8837.6	9102.9	9210.0	8888.7	8347.4	8681.9	6143.6	3833.5
50°	6880.1	6868.6	7573.8	8550.9	9309.7	10002.6	9871.6	8953.8	9068.3	6260.6	3787.3
52.5°	5965.6	5923.6	6334.7	7633.1	9009.0	10419.4	10832.2	9548.6	9338.5	6282.8	3679.4
55°	4524.7	4487.6	5003.3	6097.4	8039.3	10271.1	11535.0	10162.4	9532.1	6226.0	3485.8
57.5°	2427.1	2404.0	3055.7	4058.4	6284.5	9381.4	11661.8	10811.6	9695.3	6075.2	3214.7
60°	945.0	940.9	1184.7	1969.0	3819.4	7632.3	11021.7	11201.3	9797.4	5889.8	2988.2
62.5°	571.8	584.1	623.7	884.0	1687.3	4741.4	9546.1	10758.1	9865.8	5720.1	2801.1
65°	472.9	473.7	478.7	607.2	808.2	1983.9	7186.6	9299.8	9696.9	5417.7	2535.9
67.5°	405.3	412.8	431.7	482.0	570.1	870.0	4137.5	7203.9	8669.6	4714.2	2122.3
70°	319.7	329.5	353.4	396.3	439.9	544.6	1529.1	4793.3	6623.1	3553.3	1604.9
72.5°	269.4	268.6	280.9	322.1	349.3	383.1	588.2	2685.8	3849.1	1696.3	794.2
75°	208.4	216.7	232.3	269.4	285.9	277.6	318.8	981.2	1379.2	514.1	270.2
77.5°	163.1	169.7	183.7	220.0	236.4	196.9	183.7	351.0	443.2	184.5	121.9
80°	73.3	79.1	125.2	162.3	192.8	135.9	99.7	179.6	196.9	84.0	61.8
82.5°	13.2	22.2	73.3	85.7	98.9	88.2	51.9	93.1	96.4	33.8	21.4
85°	0.8	1.6	25.5	31.3	39.5	28.8	15.7	37.1	32.1	11.5	8.2
87.5°	0.0	0.0	0.0	0.8	0.8	4.1	4.9	6.6	4.9	4.1	3.3
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°	3219.7	3219.7	3219.7	3219.7	3219.7	3219.7	3219.7	3219.7	3219.7	3219.7
2.5°	3167.8	3050.8	2937.1	2844.0	2789.6	2697.3	2636.4	2626.5	2600.9	2623.2
5°	3106.8	2897.5	2685.8	2496.3	2340.6	2139.6	1989.6	1926.2	1871.0	1890.0
7.5°	3078.0	2747.6	2418.0	2094.3	1761.4	1440.1	1201.2	1101.5	1025.7	1036.4
10°	3039.2	2591.9	2075.3	1581.0	1135.3	818.1	653.3	592.4	558.6	559.4
12.5°	3009.6	2405.7	1677.4	1071.9	691.2	522.3	471.3	456.4	446.5	447.4
15°	2994.8	2186.5	1284.4	714.3	494.3	442.4	430.1	423.5	416.9	416.1
17.5°	2970.0	1942.7	940.0	521.5	432.5	414.4	403.7	396.3	388.0	386.4
20°	2933.0	1665.9	687.1	440.8	405.3	391.3	376.5	366.6	356.7	355.1
22.5°	2864.6	1373.4	528.1	407.8	385.6	369.9	351.8	340.3	330.4	328.7
25°	2737.7	1099.0	444.9	387.2	368.3	349.3	329.5	313.9	304.8	303.2
27.5°	2577.1	863.4	403.7	368.3	346.0	328.7	306.5	291.6	283.4	281.8
30°	2387.6	664.9	379.8	346.8	319.7	304.8	285.1	272.7	267.8	267.8
32.5°	2183.2	531.4	369.9	325.4	296.6	280.1	264.5	259.5	257.9	257.0
35°	1991.3	461.4	365.0	308.1	276.0	260.3	253.8	254.6	257.9	257.9
37.5°	1820.7	439.1	362.5	295.8	257.9	243.9	248.0	255.4	252.1	252.1
40°	1666.7	441.6	360.9	286.7	243.0	234.8	243.0	237.3	229.0	228.2
42.5°	1548.9	462.2	357.6	279.3	234.0	228.2	224.9	215.9	215.0	216.7
45°	1463.2	480.3	356.7	276.0	224.1	213.4	209.3	200.2	216.7	220.8
47.5°	1361.9	480.3	356.7	264.5	207.6	203.5	196.9	187.0	203.5	207.6
50°	1230.9	449.8	342.7	251.3	194.4	192.0	180.4	168.1	164.8	167.2
52.5°	1065.3	394.6	307.3	233.2	181.3	176.3	162.3	153.2	150.8	150.8
55°	876.6	330.4	259.5	206.8	167.2	158.2	148.3	144.2	141.7	140.1
57.5°	712.6	271.1	208.4	183.7	154.1	142.5	139.2	134.3	130.2	127.7
60°	584.9	213.4	172.2	163.1	140.9	130.2	129.3	122.8	112.0	110.4
62.5°	451.5	156.5	145.0	141.7	127.7	118.6	117.0	103.8	87.3	84.0
65°	318.8	121.9	117.0	124.4	113.7	105.5	101.3	81.6	64.3	61.8
67.5°	224.1	102.2	92.3	108.8	98.9	88.2	85.7	69.2	53.6	51.9
70°	159.8	83.2	75.8	93.1	79.1	77.4	72.5	57.7	43.7	42.0
72.5°	112.9	63.4	58.5	80.7	54.4	66.7	59.3	44.5	33.0	31.3
75°	83.2	45.3	41.2	47.0	39.5	50.3	42.0	29.7	20.6	19.8
77.5°	61.0	28.8	24.7	23.1	23.1	31.3	23.1	12.4	9.1	8.2
80°	42.8	13.2	11.5	9.9	9.1	7.4	3.3	1.6	0.8	0.8
82.5°	25.5	5.8	5.8	4.1	2.5	0.0	0.0	0.0	0.0	0.0
85°	5.8	2.5	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.8	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)