

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: P940596

Luminaire Tested: **GALN-SB3D-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22210 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 218.1
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

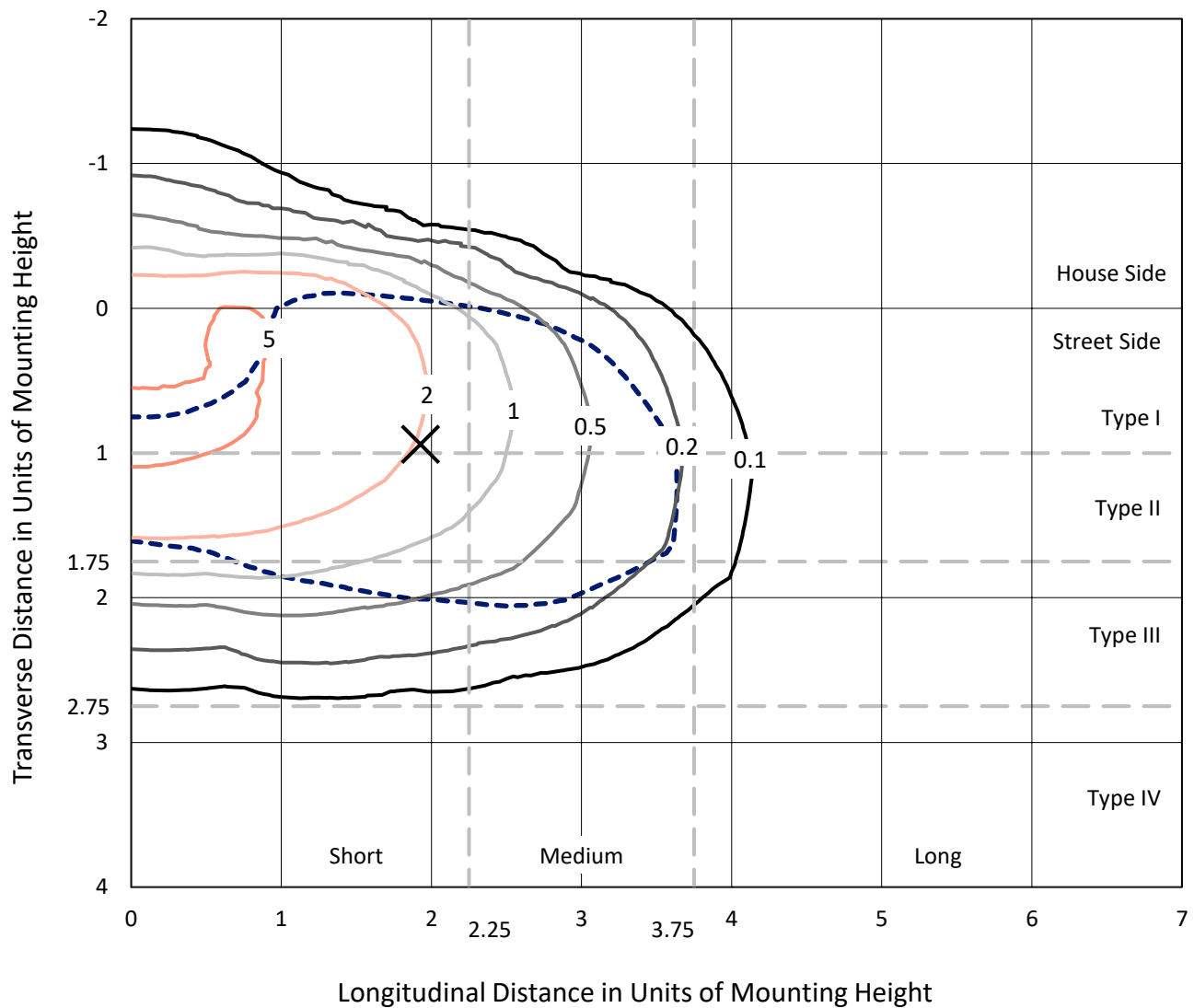


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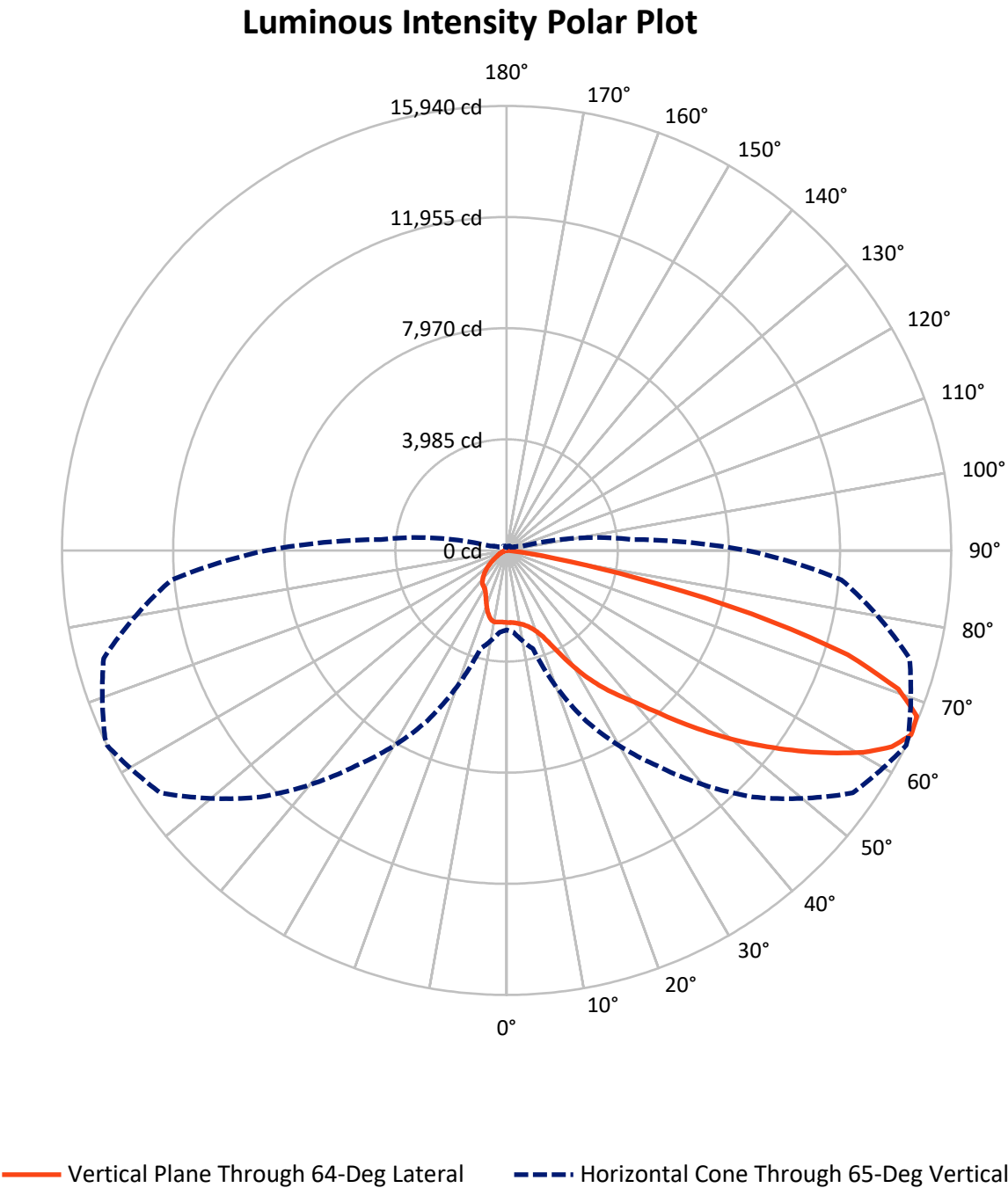
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
Type III - Short - N/A

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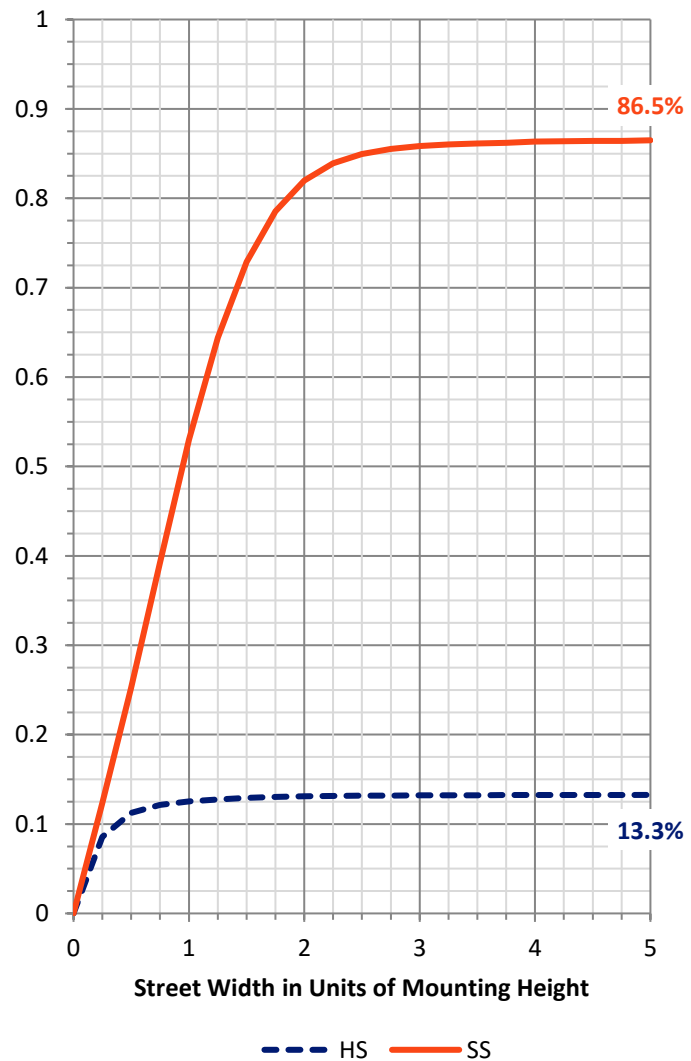
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2970.2	0.0	2970.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	19239.8	0.0	19239.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	22210.0	0.0	22210.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.3	1.1
10°-20°	646.4	2.9
20°-30°	1224.9	5.5
30°-40°	2478.7	11.2
40°-50°	4222.4	19.0
50°-60°	5742.1	25.9
60°-70°	5392.2	24.3
70°-80°	2160.3	9.7
80°-90°	104.7	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°	22210.0	100.0
0°-180°	22210.0	100.0

Coefficient of Utilization



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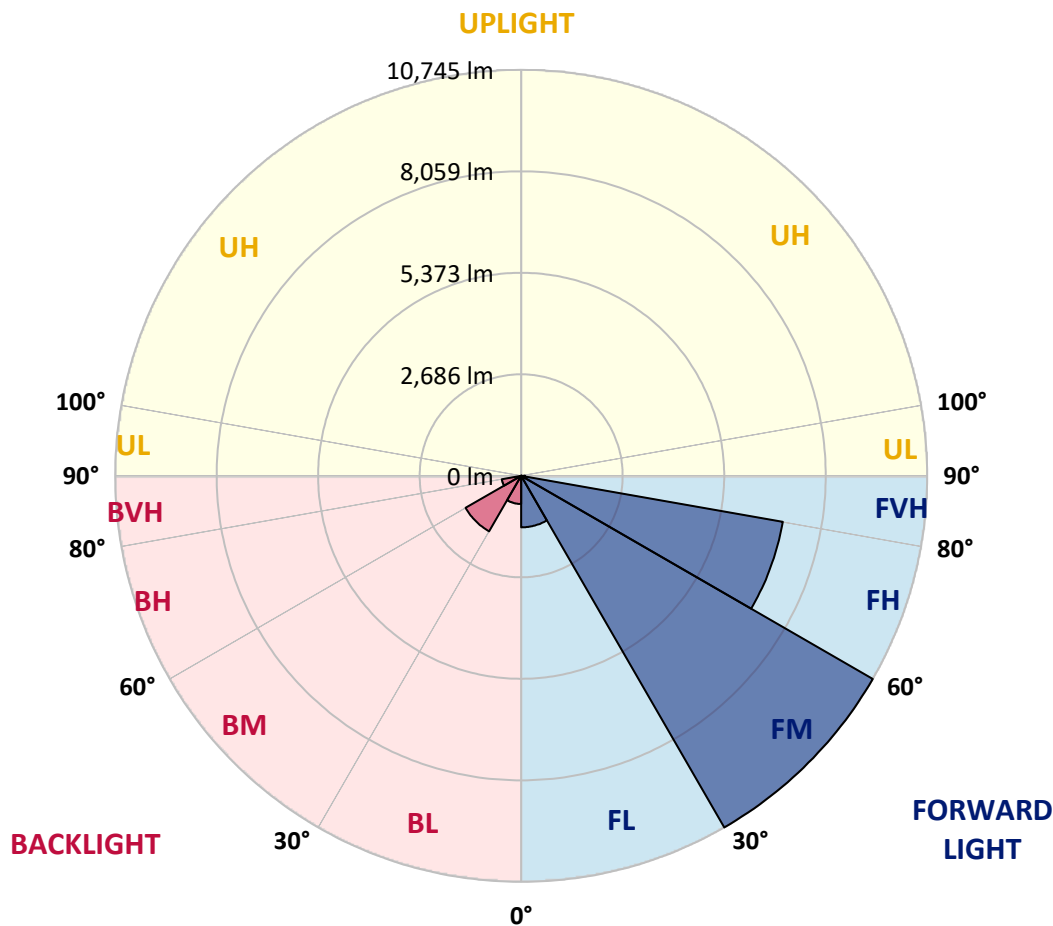
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1363.9	6.1			
FM	(30°-60°)	10745.2	48.4			
FH	(60°-80°)	7031.2	31.7			G3/7500
FVH	(80°-90°)	99.5	0.4			G1/100
BL	(0°-30°)	745.7	3.4	B2/1000		
BM	(30°-60°)	1698.0	7.6	B2/2500		
BH	(60°-80°)	521.3	2.3	B2/1000		G2/1000
BVH	(80°-90°)	5.1	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2583.3	2583.3	2583.3	2583.3	2583.3	2583.3	2583.3	2583.3	2583.3	2583.3	2583.3
2.5°	2574.3	2592.2	2587.7	2583.3	2581.8	2584.7	2586.2	2584.7	2584.7	2584.7	2586.2
5°	2525.2	2540.1	2540.1	2550.5	2565.4	2583.3	2596.7	2599.6	2602.6	2607.1	2605.6
7.5°	2431.4	2443.3	2452.2	2486.5	2523.7	2571.3	2611.5	2632.4	2635.4	2651.7	2657.7
10°	2367.4	2382.3	2397.1	2432.9	2486.5	2557.9	2626.4	2677.1	2684.5	2723.2	2741.1
12.5°	2364.4	2379.3	2398.6	2437.3	2499.9	2575.8	2659.2	2732.1	2745.5	2802.1	2839.3
15°	2395.7	2413.5	2431.4	2479.0	2546.0	2638.3	2727.7	2818.5	2831.9	2912.3	2952.5
17.5°	2459.7	2483.5	2496.9	2544.5	2616.0	2718.7	2836.4	2940.6	2952.5	3046.3	3096.9
20°	2586.2	2614.5	2619.0	2657.7	2727.7	2837.9	2977.8	3107.3	3122.2	3229.4	3286.0
22.5°	2848.3	2888.5	2852.7	2872.1	2934.6	3044.8	3196.7	3360.5	3381.3	3503.4	3554.0
25°	3309.8	3366.4	3274.1	3241.4	3268.2	3382.8	3573.4	3780.3	3804.2	3902.4	3927.7
27.5°	4216.6	4143.6	4003.7	3866.7	3786.3	3851.8	4066.2	4322.3	4352.1	4447.4	4417.6
30°	5212.7	5148.6	4959.5	4655.8	4465.2	4454.8	4652.8	4938.7	4972.9	5063.8	4972.9
32.5°	6210.2	6149.2	5943.7	5570.0	5239.5	5075.7	5212.7	5529.8	5547.7	5605.7	5471.7
35°	7191.4	7128.9	6923.4	6540.8	6134.3	5762.1	5735.3	6092.6	6098.6	6159.6	5960.1
37.5°	8178.6	8126.5	7907.6	7532.4	7131.9	6618.2	6369.5	6625.6	6633.1	6692.6	6485.7
40°	8882.8	8905.2	8754.8	8464.4	8120.5	7559.2	7081.2	7192.9	7148.2	7248.0	7124.4
42.5°	9487.3	9532.0	9401.0	9255.0	9055.5	8561.2	7962.7	7943.3	7871.9	7925.5	7797.4
45°	10009.9	10047.1	9929.5	9895.3	9890.8	9543.9	8926.0	8809.9	8710.1	8699.7	8546.3
47.5°	10202.0	10273.5	10324.1	10438.7	10662.1	10516.2	9922.1	9741.9	9630.3	9548.4	9305.7
50°	10274.9	10350.9	10523.6	10857.1	11385.7	11448.2	10913.7	10711.2	10574.2	10425.3	10068.0
52.5°	10176.7	10312.2	10544.4	11105.8	11872.5	12195.6	11865.1	11687.9	11531.6	11288.9	10758.8
55°	9597.5	9733.0	10207.9	11102.8	12115.2	12719.7	12764.4	12685.5	12509.8	12127.1	11317.2
57.5°	8376.6	8577.6	9329.5	10724.6	12110.8	13170.9	13645.8	13702.4	13505.9	12958.0	11756.4
60°	6685.2	6957.7	7874.8	9886.3	11737.1	13415.1	14418.6	14701.5	14493.0	13776.9	12112.3
62.5°	4664.7	4980.4	5848.4	8573.1	10882.4	13239.4	14982.9	15505.5	15347.7	14509.4	12249.2
65°	2845.3	2946.5	3646.3	6746.2	9429.2	12503.8	15157.1	15940.2	15888.1	14957.6	12046.7
67.5°	1895.4	1980.2	2181.2	4626.0	7319.5	11034.3	14740.2	15864.3	15879.2	14884.6	11305.3
70°	1142.0	1214.9	1346.0	2690.5	4743.7	8733.9	13449.3	14896.5	14982.9	13909.4	9899.7
72.5°	470.5	519.6	638.7	1219.4	2456.7	5543.2	10709.7	12789.7	12990.7	11695.4	7597.9
75°	266.5	291.8	375.2	611.9	1066.1	2583.3	6487.2	9079.4	9375.6	8060.9	4570.9
77.5°	177.2	189.1	242.7	396.0	600.0	881.4	2772.3	4730.3	5296.0	4402.7	1978.8
80°	119.1	129.5	166.8	265.0	390.1	378.2	882.9	1752.4	2155.9	1512.7	482.4
82.5°	80.4	81.9	119.1	174.2	247.2	183.1	260.6	544.9	684.9	437.7	183.1
85°	46.2	44.7	87.8	101.2	110.2	75.9	78.9	163.8	214.4	184.6	104.2
87.5°	6.0	8.9	34.2	26.8	14.9	16.4	16.4	28.3	41.7	44.7	22.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2583.3	2583.3	2583.3	2583.3	2583.3	2583.3	2583.3	2583.3	2583.3	2583.3	2583.3
2.5°	2586.2	2584.7	2580.3	2575.8	2565.4	2559.4	2562.4	2559.4	2557.9	2559.4	2565.4
5°	2605.6	2601.1	2589.2	2574.3	2553.5	2528.2	2511.8	2488.0	2465.6	2452.2	2455.2
7.5°	2657.7	2653.2	2636.9	2595.2	2528.2	2422.5	2325.7	2240.8	2176.8	2139.6	2141.0
10°	2741.1	2733.6	2708.3	2616.0	2440.3	2209.5	2017.5	1858.2	1753.9	1704.8	1700.3
12.5°	2839.3	2830.4	2785.7	2596.7	2273.6	1913.2	1648.2	1471.0	1374.3	1331.1	1326.6
15°	2955.5	2943.6	2855.7	2504.3	2030.9	1585.7	1343.0	1210.5	1147.9	1109.2	1110.7
17.5°	3099.9	3079.1	2907.8	2365.9	1767.3	1335.5	1155.4	1055.6	1000.5	963.3	960.3
20°	3287.5	3253.3	2949.5	2200.6	1524.6	1177.7	1028.8	945.5	903.8	871.0	865.1
22.5°	3549.6	3500.4	3000.1	2021.9	1353.4	1069.0	935.0	874.0	839.7	802.5	796.6
25°	3874.1	3816.1	3062.7	1856.7	1235.8	975.2	866.5	815.9	775.7	732.5	728.1
27.5°	4328.3	4224.0	3137.1	1721.2	1134.5	894.8	804.0	747.4	701.3	665.5	658.1
30°	4834.5	4663.3	3202.6	1639.3	1042.2	820.4	722.1	665.5	622.4	597.1	592.6
32.5°	5313.9	5081.6	3245.8	1603.6	958.9	735.5	632.8	571.7	539.0	531.5	536.0
35°	5766.5	5459.8	3241.4	1569.3	884.4	650.7	544.9	482.4	457.1	461.6	461.6
37.5°	6287.7	5863.3	3210.1	1515.7	823.4	573.2	469.0	413.9	391.6	393.1	399.0
40°	6893.6	6329.3	3190.7	1414.5	756.4	501.8	406.5	361.8	345.4	339.5	338.0
42.5°	7539.8	6780.5	3193.7	1299.8	673.0	437.7	363.3	326.1	311.2	306.7	305.2
45°	8189.0	7210.8	3198.2	1180.7	585.1	388.6	332.0	300.8	291.8	285.9	285.9
47.5°	8799.4	7577.0	3114.8	1052.7	498.8	351.4	306.7	285.9	278.4	271.0	271.0
50°	9368.2	7821.2	2913.8	903.8	430.3	321.6	287.4	272.5	265.0	257.6	257.6
52.5°	9810.4	7859.9	2581.8	750.4	382.6	299.3	275.4	262.0	253.1	245.7	244.2
55°	10006.9	7617.2	2109.8	607.5	345.4	279.9	263.5	250.1	239.7	232.3	230.8
57.5°	9956.3	7106.6	1645.2	488.4	309.7	260.6	248.6	239.7	227.8	215.9	214.4
60°	9707.7	6423.1	1240.3	406.5	276.9	239.7	232.3	224.8	208.4	190.6	187.6
62.5°	9277.4	5564.0	884.4	336.5	241.2	215.9	212.9	207.0	183.1	150.4	147.4
65°	8619.3	4520.3	595.6	279.9	207.0	189.1	190.6	180.2	148.9	111.7	108.7
67.5°	7657.4	3305.4	381.2	229.3	172.7	157.8	159.3	153.4	126.6	95.3	90.8
70°	6432.1	2188.7	248.6	174.2	138.5	122.1	131.0	132.5	107.2	77.4	74.4
72.5°	4715.4	1292.4	174.2	129.5	101.2	84.9	107.2	110.2	86.4	58.1	55.1
75°	2687.5	613.4	131.0	93.8	62.5	59.6	83.4	83.4	59.6	38.7	35.7
77.5°	1128.6	256.1	92.3	61.0	35.7	34.2	56.6	52.1	29.8	17.9	17.9
80°	326.1	114.6	49.1	29.8	14.9	13.4	22.3	16.4	7.4	3.0	3.0
82.5°	128.0	50.6	19.4	11.9	6.0	6.0	3.0	0.0	0.0	0.0	0.0
85°	75.9	20.8	8.9	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.4	4.5	3.0	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)