

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: P941616

Luminaire Tested: **GALN-SB5B-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941616
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-SB5B-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 450mA 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: 20692 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - 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

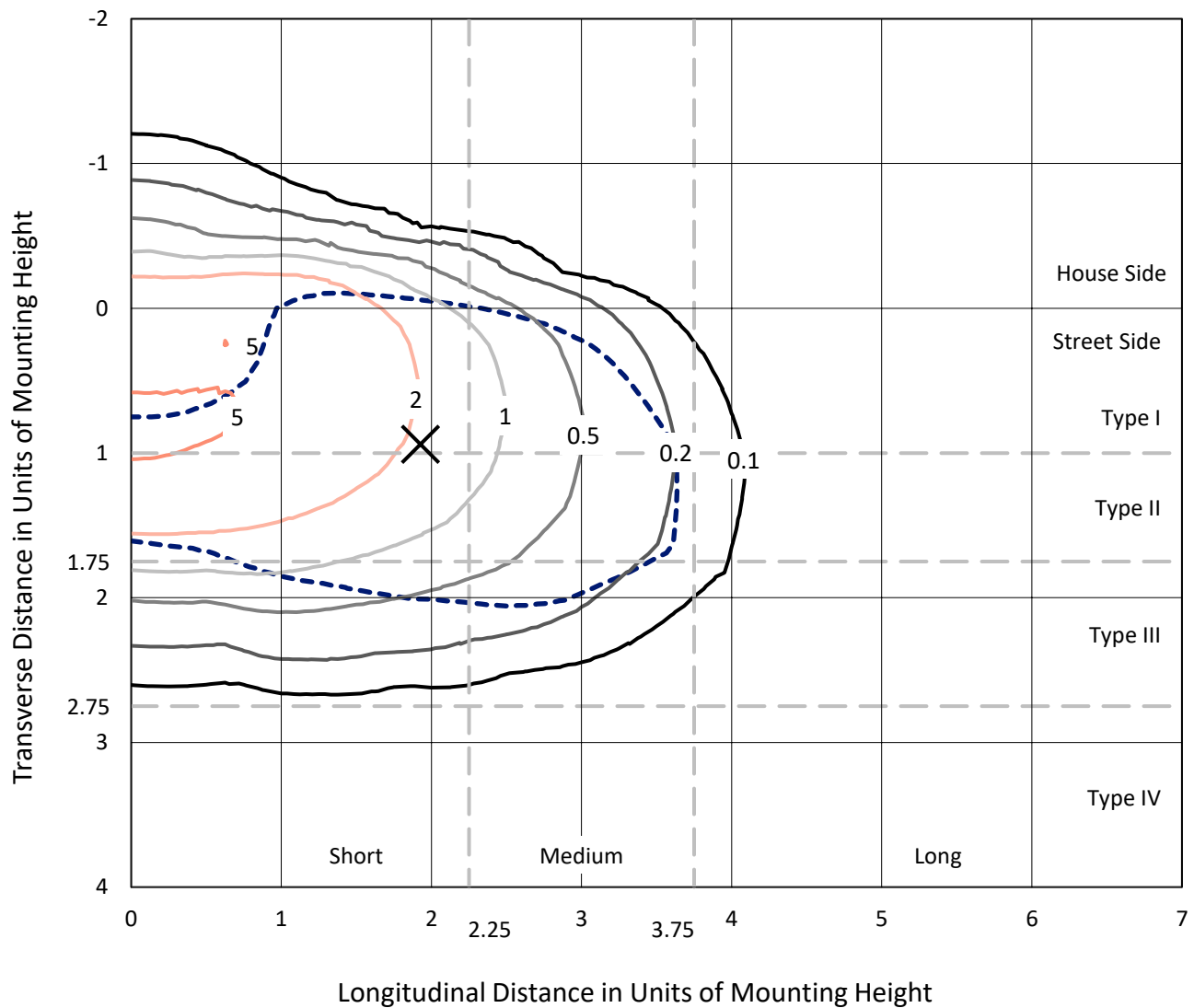


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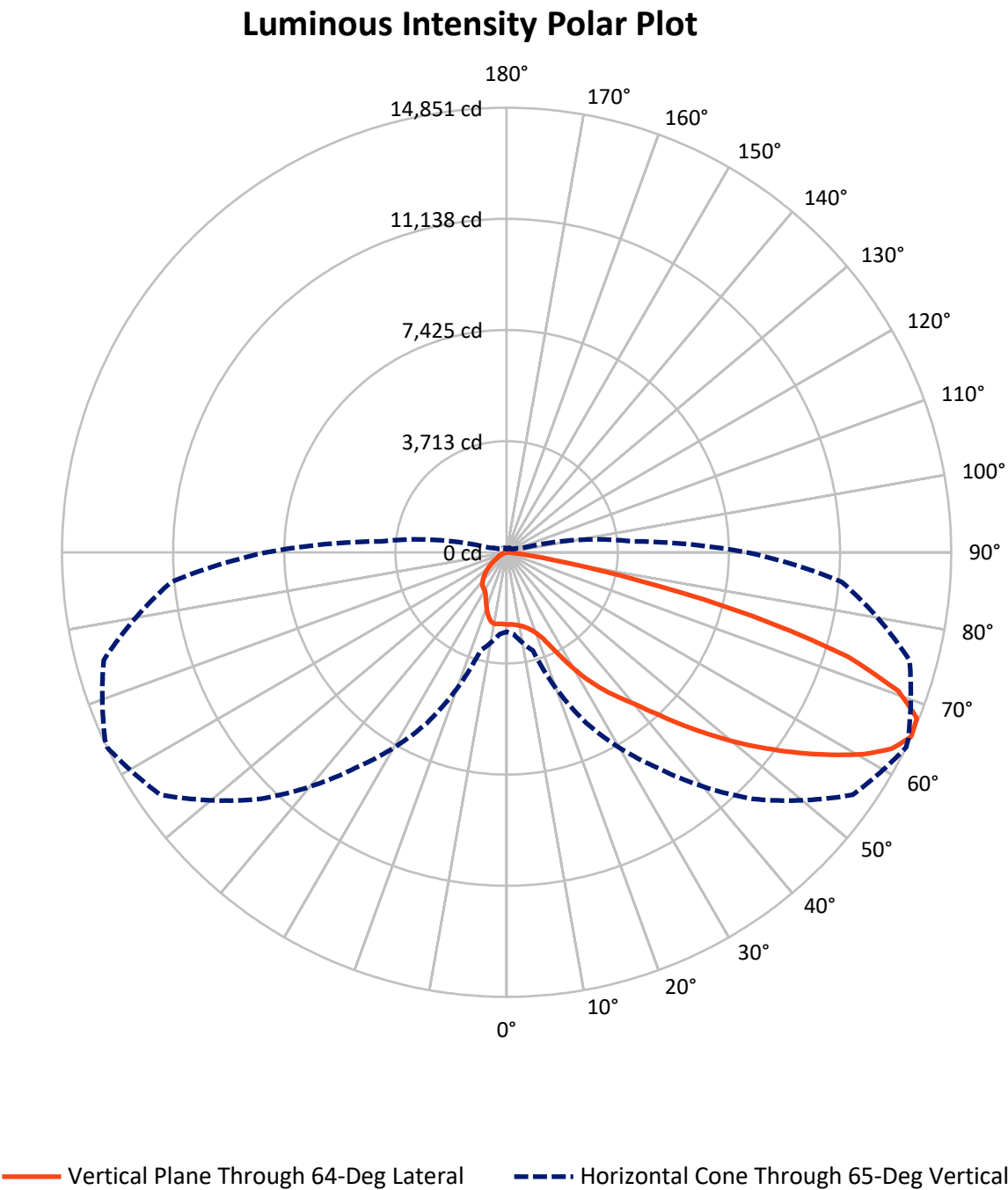
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type III - Short - N/A

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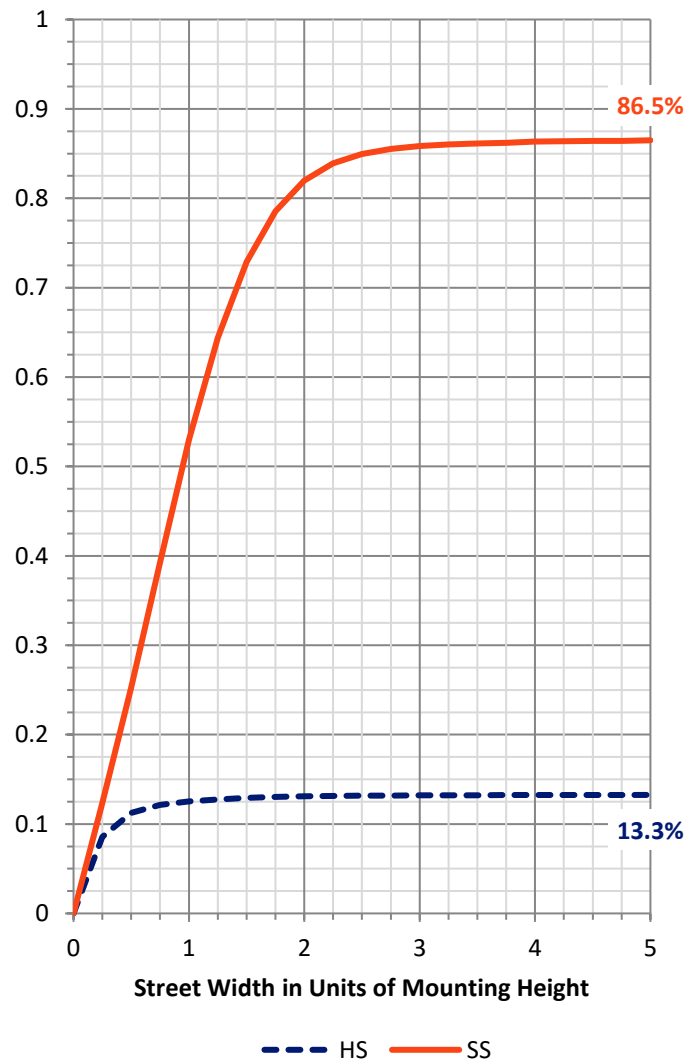
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2767.2	0.0	2767.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	17924.9	0.0	17924.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	20692.0	0.0	20692.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.0	1.1
10°-20°	602.2	2.9
20°-30°	1141.2	5.5
30°-40°	2309.2	11.2
40°-50°	3933.8	19.0
50°-60°	5349.7	25.9
60°-70°	5023.6	24.3
70°-80°	2012.7	9.7
80°-90°	97.5	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°	20692.0	100.0
0°-180°	20692.0	100.0

Coefficient of Utilization



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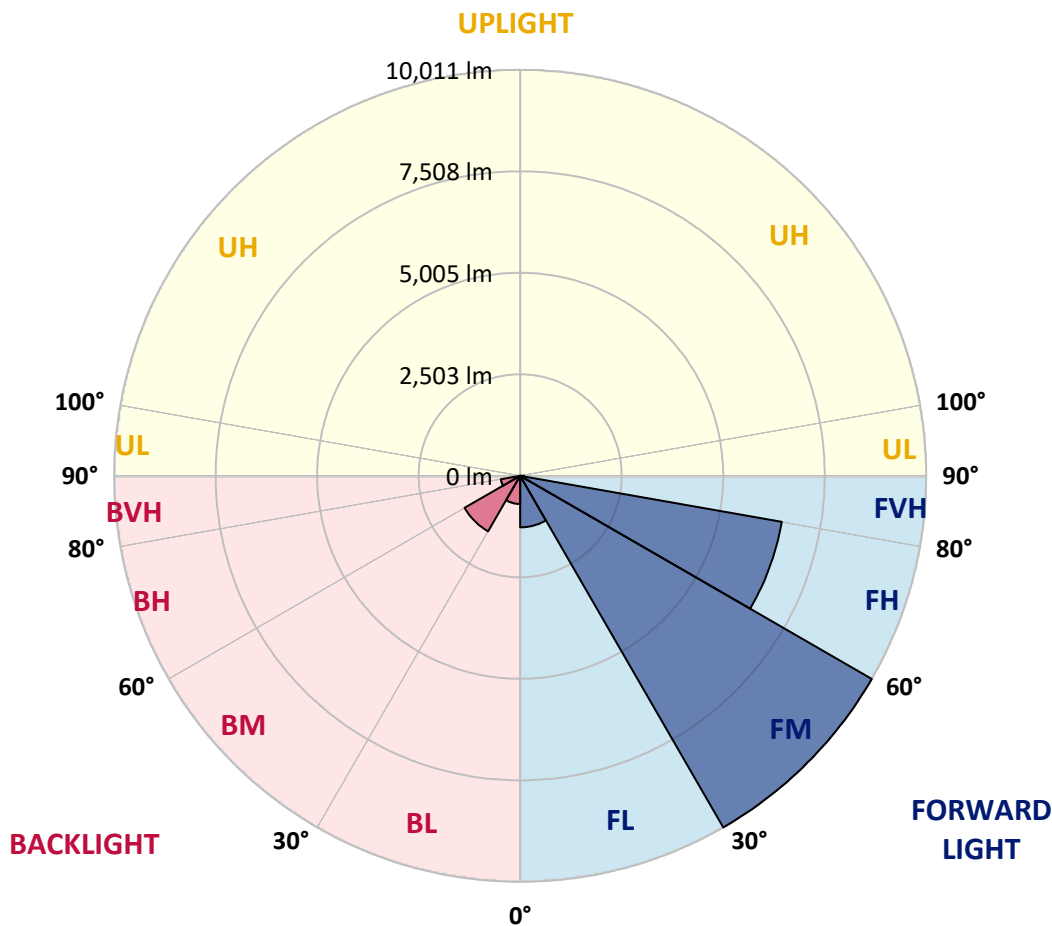
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1270.7	6.1			
FM	(30°-60°)	10010.8	48.4			
FH	(60°-80°)	6550.6	31.7			G3/7500
FVH	(80°-90°)	92.7	0.4			G1/100
BL	(0°-30°)	694.7	3.4	B2/1000		
BM	(30°-60°)	1582.0	7.6	B2/2500		
BH	(60°-80°)	485.7	2.3	B1/500		G1/500
BVH	(80°-90°)	4.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7
2.5°	2398.4	2415.0	2410.9	2406.7	2405.3	2408.1	2409.5	2408.1	2408.1	2408.1	2409.5
5°	2352.6	2366.5	2366.5	2376.2	2390.0	2406.7	2419.2	2422.0	2424.7	2428.9	2427.5
7.5°	2265.2	2276.3	2284.6	2316.5	2351.2	2395.6	2433.1	2452.5	2455.2	2470.5	2476.1
10°	2205.6	2219.4	2233.3	2266.6	2316.5	2383.1	2446.9	2494.1	2501.0	2537.1	2553.7
12.5°	2202.8	2216.7	2234.7	2270.8	2329.0	2399.8	2477.4	2545.4	2557.9	2610.6	2645.3
15°	2231.9	2248.6	2265.2	2309.6	2372.0	2458.0	2541.2	2625.9	2638.3	2713.3	2750.7
17.5°	2291.6	2313.8	2326.2	2370.6	2437.2	2532.9	2642.5	2739.6	2750.7	2838.1	2885.3
20°	2409.5	2435.8	2440.0	2476.1	2541.2	2643.9	2774.3	2895.0	2908.8	3008.7	3061.4
22.5°	2653.6	2691.1	2657.8	2675.8	2734.1	2836.7	2978.2	3130.8	3150.2	3263.9	3311.1
25°	3083.6	3136.3	3050.3	3019.8	3044.8	3151.6	3329.1	3522.0	3544.2	3635.7	3659.3
27.5°	3928.4	3860.4	3730.0	3602.4	3527.5	3588.5	3788.3	4026.9	4054.6	4143.4	4115.7
30°	4856.4	4796.7	4620.6	4337.6	4160.0	4150.3	4334.8	4601.2	4633.1	4717.7	4633.1
32.5°	5785.8	5728.9	5537.5	5189.3	4881.4	4728.8	4856.4	5151.9	5168.5	5222.6	5097.8
35°	6699.9	6641.6	6450.2	6093.7	5715.0	5368.2	5343.3	5676.2	5681.7	5738.6	5552.7
37.5°	7619.6	7571.0	7367.1	7017.6	6644.4	6165.9	5934.2	6172.8	6179.7	6235.2	6042.4
40°	8275.7	8296.5	8156.4	7885.9	7565.5	7042.5	6597.3	6701.3	6659.7	6752.6	6637.5
42.5°	8838.9	8880.5	8758.4	8622.5	8436.6	7976.1	7418.4	7400.4	7333.8	7383.8	7264.5
45°	9325.8	9360.4	9250.9	9219.0	9214.8	8891.6	8315.9	8207.7	8114.8	8105.1	7962.2
47.5°	9504.7	9571.3	9618.5	9725.3	9933.3	9797.4	9243.9	9076.1	8972.0	8895.8	8669.6
50°	9572.7	9643.4	9804.3	10115.1	10607.5	10665.7	10167.8	9979.1	9851.5	9712.8	9379.9
52.5°	9481.1	9607.4	9823.8	10346.7	11061.1	11362.1	11054.1	10889.1	10743.4	10517.3	10023.5
55°	8941.5	9067.8	9510.3	10343.9	11287.2	11850.4	11892.0	11818.5	11654.8	11298.3	10543.7
57.5°	7804.1	7991.3	8691.8	9991.6	11283.0	12270.7	12713.2	12765.9	12582.8	12072.3	10952.9
60°	6228.3	6482.1	7336.6	9210.6	10934.9	12498.2	13433.1	13696.7	13502.5	12835.2	11284.4
62.5°	4345.9	4640.0	5448.7	7987.2	10138.6	12334.5	13958.8	14445.7	14298.7	13517.7	11412.0
65°	2650.8	2745.2	3397.1	6285.1	8784.8	11649.2	14121.1	14850.8	14802.2	13935.2	11223.4
67.5°	1765.8	1844.9	2032.2	4309.9	6819.2	10280.1	13732.7	14780.0	14793.9	13867.3	10532.6
70°	1063.9	1131.9	1254.0	2506.6	4419.4	8137.0	12530.1	13878.4	13958.8	12958.7	9223.1
72.5°	438.3	484.1	595.1	1136.1	2288.8	5164.3	9977.7	11915.6	12102.8	10896.0	7078.6
75°	248.3	271.9	349.6	570.1	993.2	2406.7	6043.8	8458.8	8734.8	7510.0	4258.5
77.5°	165.1	176.2	226.1	369.0	559.0	821.2	2582.9	4407.0	4934.1	4101.8	1843.5
80°	111.0	120.7	155.4	246.9	363.4	352.3	822.6	1632.7	2008.6	1409.3	449.4
82.5°	74.9	76.3	111.0	162.3	230.3	170.6	242.8	507.7	638.1	407.8	170.6
85°	43.0	41.6	81.8	94.3	102.6	70.7	73.5	152.6	199.7	172.0	97.1
87.5°	5.5	8.3	31.9	25.0	13.9	15.3	15.3	26.4	38.8	41.6	20.8
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°	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7
2.5°	2409.5	2408.1	2403.9	2399.8	2390.0	2384.5	2387.3	2384.5	2383.1	2384.5	2390.0
5°	2427.5	2423.3	2412.2	2398.4	2379.0	2355.4	2340.1	2317.9	2297.1	2284.6	2287.4
7.5°	2476.1	2471.9	2456.6	2417.8	2355.4	2256.9	2166.7	2087.7	2028.0	1993.3	1994.7
10°	2553.7	2546.8	2523.2	2437.2	2273.5	2058.5	1879.6	1731.2	1634.1	1588.3	1584.1
12.5°	2645.3	2637.0	2595.3	2419.2	2118.2	1782.5	1535.6	1370.5	1280.3	1240.1	1235.9
15°	2753.5	2742.4	2660.5	2333.2	1892.1	1477.3	1251.2	1127.7	1069.5	1033.4	1034.8
17.5°	2888.0	2868.6	2709.1	2204.2	1646.5	1244.3	1076.4	983.5	932.2	897.5	894.7
20°	3062.8	3030.9	2747.9	2050.2	1420.4	1097.2	958.5	880.8	842.0	811.5	805.9
22.5°	3307.0	3261.2	2795.1	1883.7	1260.9	996.0	871.1	814.3	782.3	747.7	742.1
25°	3609.3	3555.2	2853.4	1729.8	1151.3	908.6	807.3	760.2	722.7	682.5	678.3
27.5°	4032.4	3935.3	2922.7	1603.5	1057.0	833.7	749.1	696.3	653.3	620.1	613.1
30°	4504.1	4344.5	2983.7	1527.2	971.0	764.3	672.8	620.1	579.8	556.2	552.1
32.5°	4950.7	4734.3	3024.0	1494.0	893.3	685.2	589.5	532.7	502.1	495.2	499.4
35°	5372.4	5086.7	3019.8	1462.0	824.0	606.2	507.7	449.4	425.9	430.0	430.0
37.5°	5857.9	5462.6	2990.7	1412.1	767.1	534.1	437.0	385.6	364.8	366.2	371.8
40°	6422.5	5896.7	2972.6	1317.8	704.7	467.5	378.7	337.1	321.8	316.3	314.9
42.5°	7024.5	6317.1	2975.4	1211.0	627.0	407.8	338.5	303.8	289.9	285.8	284.4
45°	7629.3	6717.9	2979.6	1100.0	545.1	362.0	309.3	280.2	271.9	266.3	266.3
47.5°	8198.0	7059.2	2901.9	980.7	464.7	327.4	285.8	266.3	259.4	252.5	252.5
50°	8727.9	7286.7	2714.6	842.0	400.9	299.6	267.7	253.8	246.9	240.0	240.0
52.5°	9139.9	7322.7	2405.3	699.1	356.5	278.8	256.6	244.1	235.8	228.9	227.5
55°	9323.0	7096.6	1965.6	566.0	321.8	260.8	245.5	233.0	223.3	216.4	215.0
57.5°	9275.8	6620.8	1532.8	455.0	288.5	242.8	231.7	223.3	212.2	201.1	199.7
60°	9044.2	5984.1	1155.5	378.7	258.0	223.3	216.4	209.5	194.2	177.6	174.8
62.5°	8643.3	5183.8	824.0	313.5	224.7	201.1	198.4	192.8	170.6	140.1	137.3
65°	8030.2	4211.4	554.9	260.8	192.8	176.2	177.6	167.8	138.7	104.0	101.3
67.5°	7134.1	3079.5	355.1	213.6	160.9	147.0	148.4	142.9	117.9	88.8	84.6
70°	5992.5	2039.1	231.7	162.3	129.0	113.7	122.1	123.5	99.9	72.1	69.4
72.5°	4393.1	1204.0	162.3	120.7	94.3	79.1	99.9	102.6	80.5	54.1	51.3
75°	2503.8	571.5	122.1	87.4	58.3	55.5	77.7	77.7	55.5	36.1	33.3
77.5°	1051.5	238.6	86.0	56.9	33.3	31.9	52.7	48.6	27.7	16.6	16.6
80°	303.8	106.8	45.8	27.7	13.9	12.5	20.8	15.3	6.9	2.8	2.8
82.5°	119.3	47.2	18.0	11.1	5.5	5.5	2.8	0.0	0.0	0.0	0.0
85°	70.7	19.4	8.3	4.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.0	4.2	2.8	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	0.0

(END OF REPORT)