

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: P941266

Luminaire Tested: **GALN-SB4D-722-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941266
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-SB4D-722-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 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: 26423 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 293.6
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

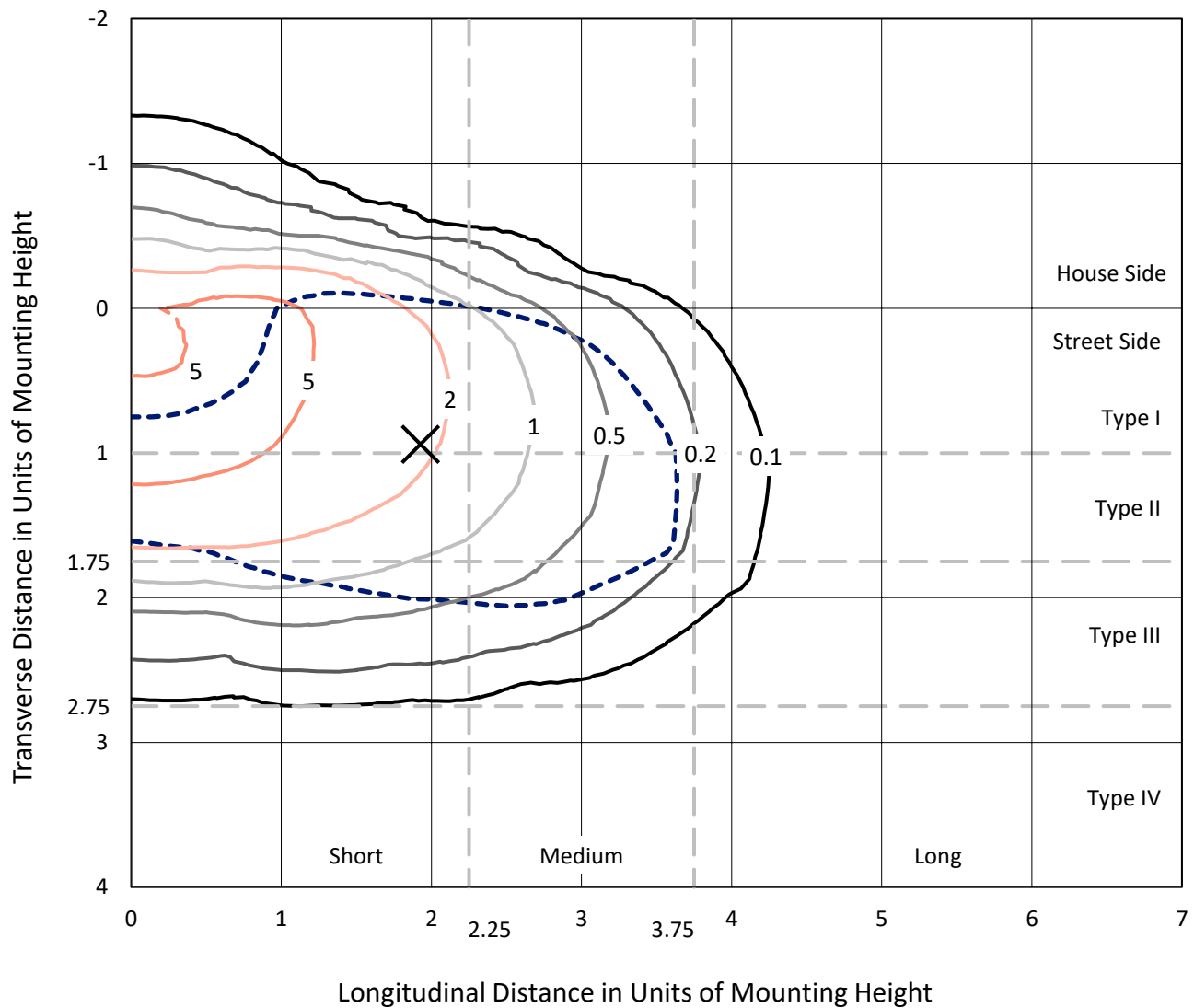


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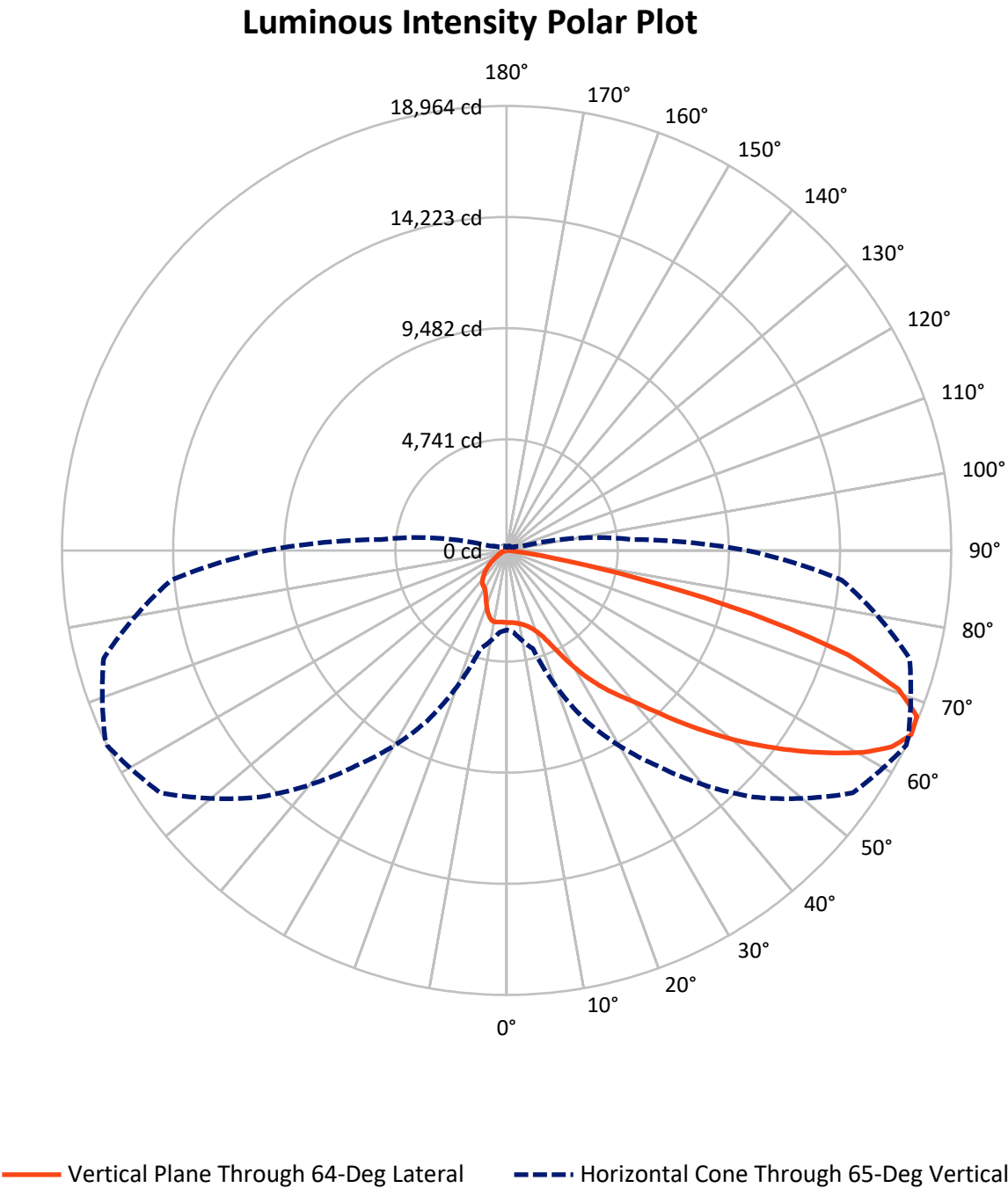
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
Type III - Short - N/A

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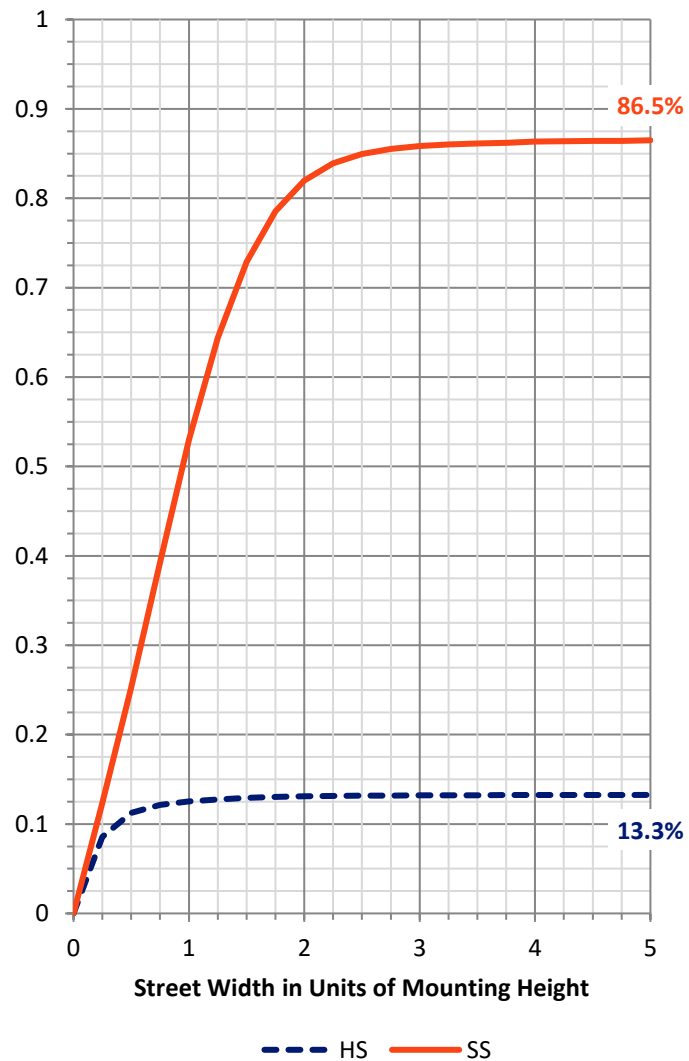
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3533.6	0.0	3533.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	22889.4	0.0	22889.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	26423.0	0.0	26423.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.5	1.1
10°-20°	769.0	2.9
20°-30°	1457.3	5.5
30°-40°	2948.8	11.2
40°-50°	5023.3	19.0
50°-60°	6831.4	25.9
60°-70°	6415.0	24.3
70°-80°	2570.1	9.7
80°-90°	124.5	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°	26423.0	100.0
0°-180°	26423.0	100.0

Coefficient of Utilization



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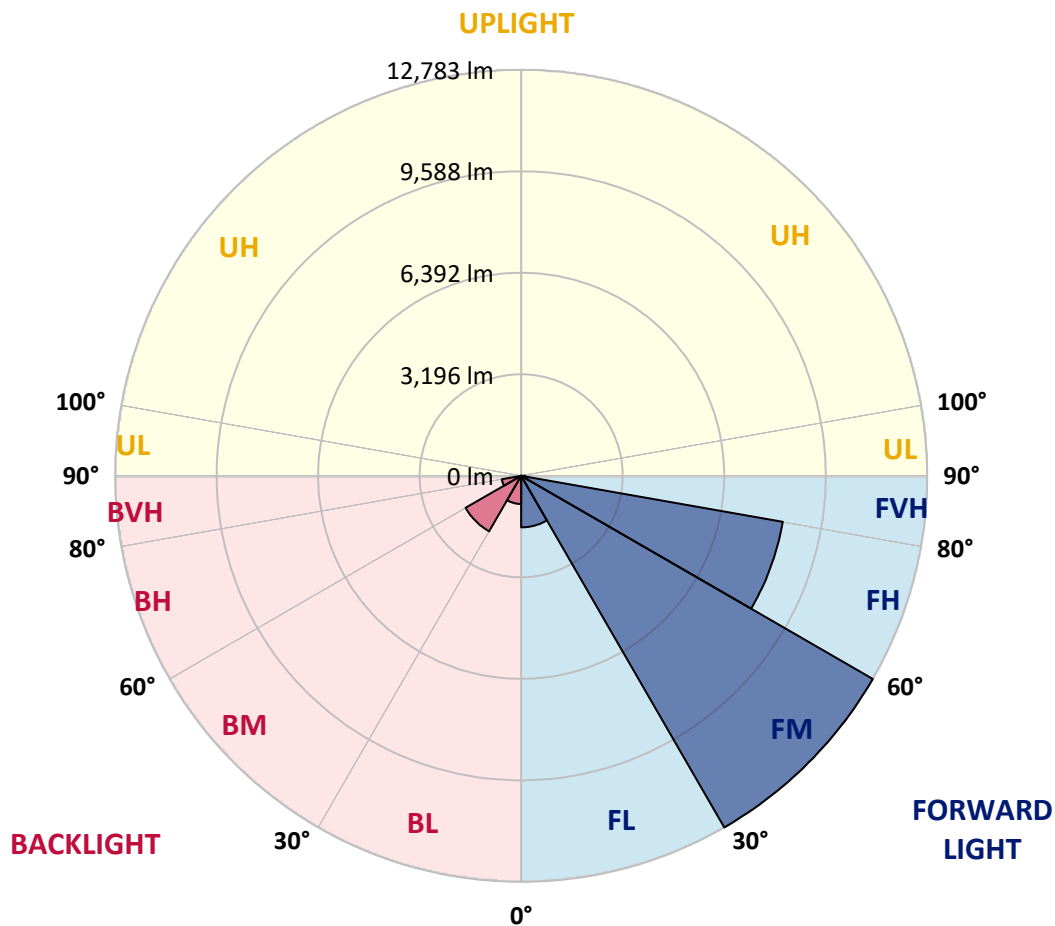
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1622.7	6.1			
FM	(30°-60°)	12783.4	48.4			
FH	(60°-80°)	8364.9	31.7			G4/12000
FVH	(80°-90°)	118.4	0.4			G2/225
BL	(0°-30°)	887.2	3.4	B2/1000		
BM	(30°-60°)	2020.1	7.6	B2/2500		
BH	(60°-80°)	620.2	2.3	B2/1000		G2/1000
BVH	(80°-90°)	6.1	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3073.3	3073.3	3073.3	3073.3	3073.3	3073.3	3073.3	3073.3	3073.3	3073.3	3073.3
2.5°	3062.6	3083.9	3078.6	3073.3	3071.5	3075.0	3076.8	3075.0	3075.0	3075.0	3076.8
5°	3004.2	3021.9	3021.9	3034.3	3052.0	3073.3	3089.2	3092.8	3096.3	3101.6	3099.8
7.5°	2892.6	2906.8	2917.4	2958.1	3002.4	3059.1	3106.9	3131.7	3135.3	3154.8	3161.8
10°	2816.4	2834.1	2851.9	2894.4	2958.1	3043.2	3124.6	3184.9	3193.7	3239.8	3261.0
12.5°	2812.9	2830.6	2853.6	2899.7	2974.1	3064.4	3163.6	3250.4	3266.3	3333.7	3377.9
15°	2850.1	2871.3	2892.6	2949.3	3029.0	3138.8	3245.1	3353.1	3369.1	3464.7	3512.6
17.5°	2926.2	2954.6	2970.5	3027.2	3112.2	3234.5	3374.4	3498.4	3512.6	3624.2	3684.4
20°	3076.8	3110.5	3115.8	3161.8	3245.1	3376.2	3542.7	3696.8	3714.5	3842.0	3909.3
22.5°	3388.6	3436.4	3393.9	3416.9	3491.3	3622.4	3803.1	3997.9	4022.7	4168.0	4228.2
25°	3937.7	4005.0	3895.2	3856.2	3888.1	4024.5	4251.2	4497.4	4525.8	4642.7	4672.8
27.5°	5016.4	4929.6	4763.1	4600.2	4504.5	4582.4	4837.5	5142.2	5177.6	5291.0	5255.6
30°	6201.4	6125.3	5900.3	5539.0	5312.2	5299.8	5535.4	5875.5	5916.3	6024.3	5916.3
32.5°	7388.2	7315.6	7071.2	6626.6	6233.3	6038.5	6201.4	6578.7	6600.0	6669.1	6509.7
35°	8555.6	8481.2	8236.7	7781.5	7297.9	6855.1	6823.2	7248.3	7255.4	7328.0	7090.7
37.5°	9730.0	9668.0	9407.6	8961.2	8484.7	7873.6	7577.8	7882.4	7891.3	7962.2	7715.9
40°	10567.8	10594.4	10415.5	10070.0	9660.9	8993.1	8424.5	8557.3	8504.2	8622.9	8475.8
42.5°	11287.0	11340.1	11184.2	11010.6	10773.3	10185.2	9473.1	9450.1	9365.1	9428.8	9276.5
45°	11908.7	11953.0	11813.0	11772.3	11767.0	11354.3	10619.2	10481.0	10362.3	10349.9	10167.5
47.5°	12137.2	12222.2	12282.4	12418.8	12684.5	12511.0	11804.2	11589.9	11457.0	11359.6	11070.9
50°	12224.0	12314.3	12519.8	12916.6	13545.4	13619.8	12983.9	12743.0	12580.0	12402.9	11977.8
52.5°	12107.1	12268.3	12544.6	13212.4	14124.6	14509.0	14115.8	13905.0	13719.0	13430.3	12799.7
55°	11418.0	11579.2	12144.3	13208.9	14413.4	15132.5	15185.7	15091.8	14882.8	14427.5	13463.9
57.5°	9965.5	10204.7	11099.2	12758.9	14408.1	15669.2	16234.3	16301.6	16067.8	15415.9	13986.5
60°	7953.3	8277.5	9368.6	11761.7	13963.4	15959.7	17153.6	17490.2	17242.2	16390.2	14409.8
62.5°	5549.6	5925.1	6957.8	10199.4	12946.7	15750.7	17825.0	18446.7	18258.9	17261.7	14572.8
65°	3385.0	3505.5	4338.0	8025.9	11217.9	14875.7	18032.2	18963.9	18901.9	17794.8	14331.9
67.5°	2254.9	2355.9	2595.0	5503.5	8707.9	13127.4	17536.2	18873.6	18891.3	17708.1	13449.8
70°	1358.6	1445.4	1601.3	3200.8	5643.5	10390.7	16000.5	17722.2	17825.0	16547.8	11777.6
72.5°	559.7	618.2	759.9	1450.7	2922.7	6594.7	12741.2	15215.8	15454.9	13913.9	9039.1
75°	317.1	347.2	446.4	728.0	1268.3	3073.3	7717.7	10801.6	11154.1	9590.0	5438.0
77.5°	210.8	225.0	288.7	471.2	713.8	1048.6	3298.2	5627.5	6300.6	5237.8	2354.1
80°	141.7	154.1	198.4	315.3	464.1	449.9	1050.4	2084.9	2564.9	1799.7	573.9
82.5°	95.7	97.4	141.7	207.2	294.0	217.9	310.0	648.3	814.8	520.8	217.9
85°	54.9	53.1	104.5	120.5	131.1	90.3	93.9	194.8	255.1	219.6	124.0
87.5°	7.1	10.6	40.7	31.9	17.7	19.5	19.5	33.7	49.6	53.1	26.6
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°	3073.3	3073.3	3073.3	3073.3	3073.3	3073.3	3073.3	3073.3	3073.3	3073.3	3073.3
2.5°	3076.8	3075.0	3069.7	3064.4	3052.0	3044.9	3048.5	3044.9	3043.2	3044.9	3052.0
5°	3099.8	3094.5	3080.4	3062.6	3037.8	3007.7	2988.2	2959.9	2933.3	2917.4	2920.9
7.5°	3161.8	3156.5	3137.0	3087.4	3007.7	2882.0	2766.8	2665.9	2589.7	2545.4	2547.2
10°	3261.0	3252.2	3222.1	3112.2	2903.2	2628.7	2400.2	2210.6	2086.6	2028.2	2022.9
12.5°	3377.9	3367.3	3314.2	3089.2	2704.8	2276.2	1960.9	1750.1	1634.9	1583.6	1578.3
15°	3516.1	3501.9	3397.4	2979.4	2416.1	1886.5	1597.7	1440.1	1365.7	1319.6	1321.4
17.5°	3687.9	3663.1	3459.4	2814.7	2102.6	1588.9	1374.6	1255.9	1190.3	1146.1	1142.5
20°	3911.1	3870.4	3509.0	2618.0	1813.8	1401.1	1224.0	1124.8	1075.2	1036.2	1029.1
22.5°	4222.9	4164.4	3569.2	2405.5	1610.1	1271.8	1112.4	1039.8	999.0	954.8	947.7
25°	4609.0	4539.9	3643.6	2208.9	1470.2	1160.2	1030.9	970.7	922.9	871.5	866.2
27.5°	5149.3	5025.3	3732.2	2047.7	1349.8	1064.6	956.5	889.2	834.3	791.8	782.9
30°	5751.5	5547.8	3810.1	1950.2	1239.9	976.0	859.1	791.8	740.4	710.3	705.0
32.5°	6321.9	6045.6	3861.5	1907.7	1140.7	875.0	752.8	680.2	641.2	632.4	637.7
35°	6860.4	6495.5	3856.2	1867.0	1052.2	774.1	648.3	573.9	543.8	549.1	549.1
37.5°	7480.4	6975.5	3819.0	1803.2	979.5	682.0	558.0	492.4	465.9	467.6	474.7
40°	8201.3	7530.0	3796.0	1682.8	899.8	596.9	483.6	430.4	411.0	403.9	402.1
42.5°	8970.0	8066.7	3799.5	1546.4	800.6	520.8	432.2	387.9	370.2	364.9	363.1
45°	9742.4	8578.6	3804.8	1404.7	696.1	462.3	395.0	357.8	347.2	340.1	340.1
47.5°	10468.6	9014.3	3705.6	1252.3	593.4	418.0	364.9	340.1	331.2	322.4	322.4
50°	11145.3	9304.8	3466.5	1075.2	511.9	382.6	341.9	324.2	315.3	306.4	306.4
52.5°	11671.3	9350.9	3071.5	892.8	455.2	356.0	327.7	311.8	301.1	292.3	290.5
55°	11905.2	9062.2	2510.0	722.7	411.0	333.0	313.5	297.6	285.2	276.3	274.6
57.5°	11844.9	8454.6	1957.3	581.0	368.4	310.0	295.8	285.2	271.0	256.8	255.1
60°	11549.1	7641.5	1475.5	483.6	329.5	285.2	276.3	267.5	248.0	226.7	223.2
62.5°	11037.2	6619.5	1052.2	400.3	287.0	256.8	253.3	246.2	217.9	178.9	175.4
65°	10254.3	5377.8	708.5	333.0	246.2	225.0	226.7	214.3	177.1	132.9	129.3
67.5°	9110.0	3932.4	453.5	272.8	205.5	187.8	189.5	182.4	150.6	113.4	108.1
70°	7652.2	2603.9	295.8	207.2	164.7	145.2	155.9	157.6	127.5	92.1	88.6
72.5°	5609.8	1537.5	207.2	154.1	120.5	101.0	127.5	131.1	102.7	69.1	65.5
75°	3197.3	729.8	155.9	111.6	74.4	70.9	99.2	99.2	70.9	46.1	42.5
77.5°	1342.7	304.7	109.8	72.6	42.5	40.7	67.3	62.0	35.4	21.3	21.3
80°	387.9	136.4	58.5	35.4	17.7	15.9	26.6	19.5	8.9	3.5	3.5
82.5°	152.3	60.2	23.0	14.2	7.1	7.1	3.5	0.0	0.0	0.0	0.0
85°	90.3	24.8	10.6	5.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.0	5.3	3.5	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)