

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: P939406

Luminaire Tested: **GALN-SB2A-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939406
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-SB2A-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 350mA 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: 6526 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 57.3
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

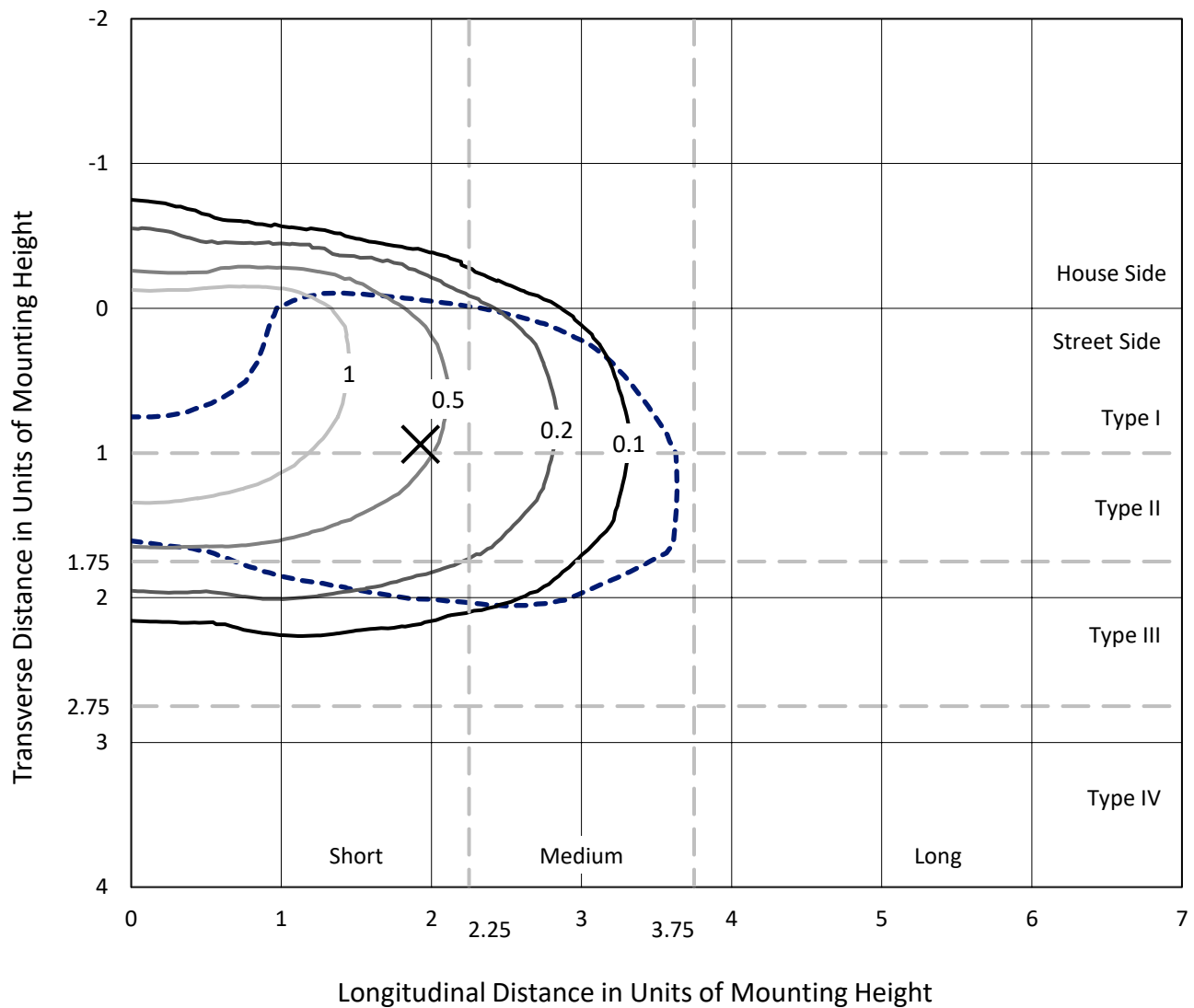


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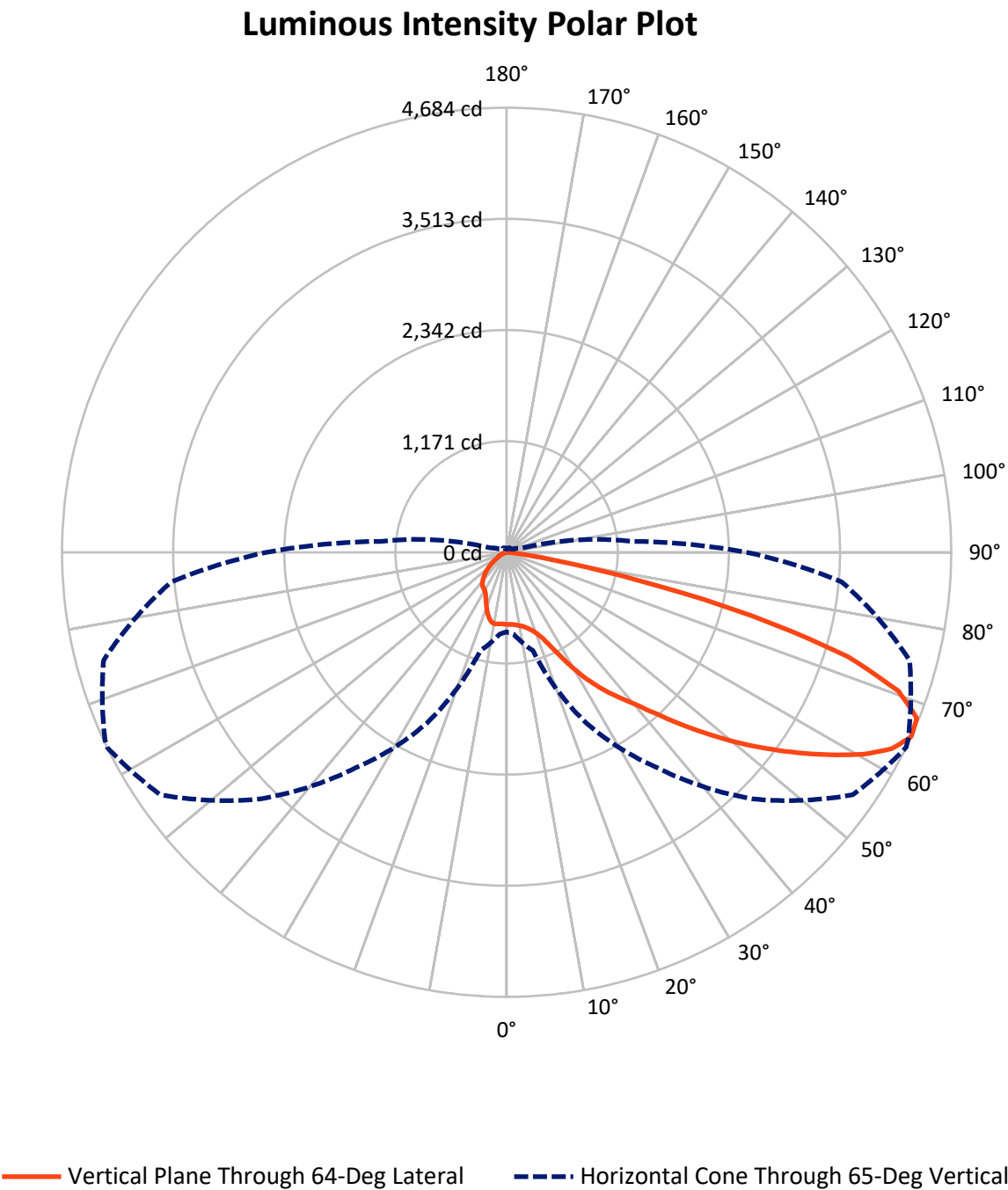
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - N/A

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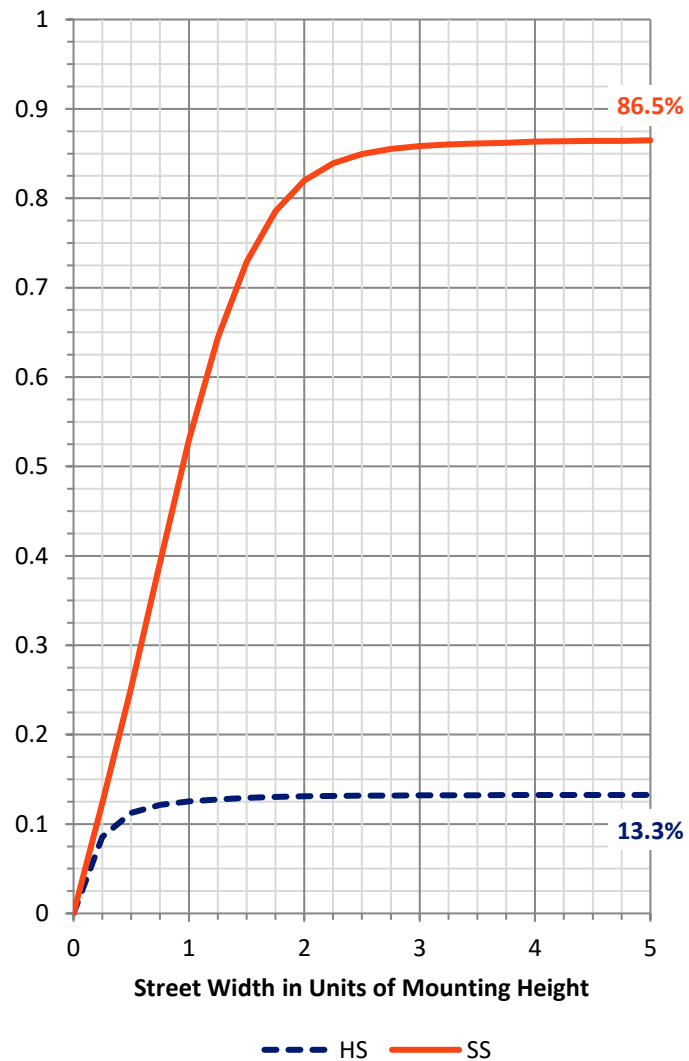
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	872.7	0.0	872.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	5653.3	0.0	5653.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	6526.0	0.0	6526.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	1.1
10°-20°	189.9	2.9
20°-30°	359.9	5.5
30°-40°	728.3	11.2
40°-50°	1240.7	19.0
50°-60°	1687.2	25.9
60°-70°	1584.4	24.3
70°-80°	634.8	9.7
80°-90°	30.7	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°	6526.0	100.0
0°-180°	6526.0	100.0

Coefficient of Utilization



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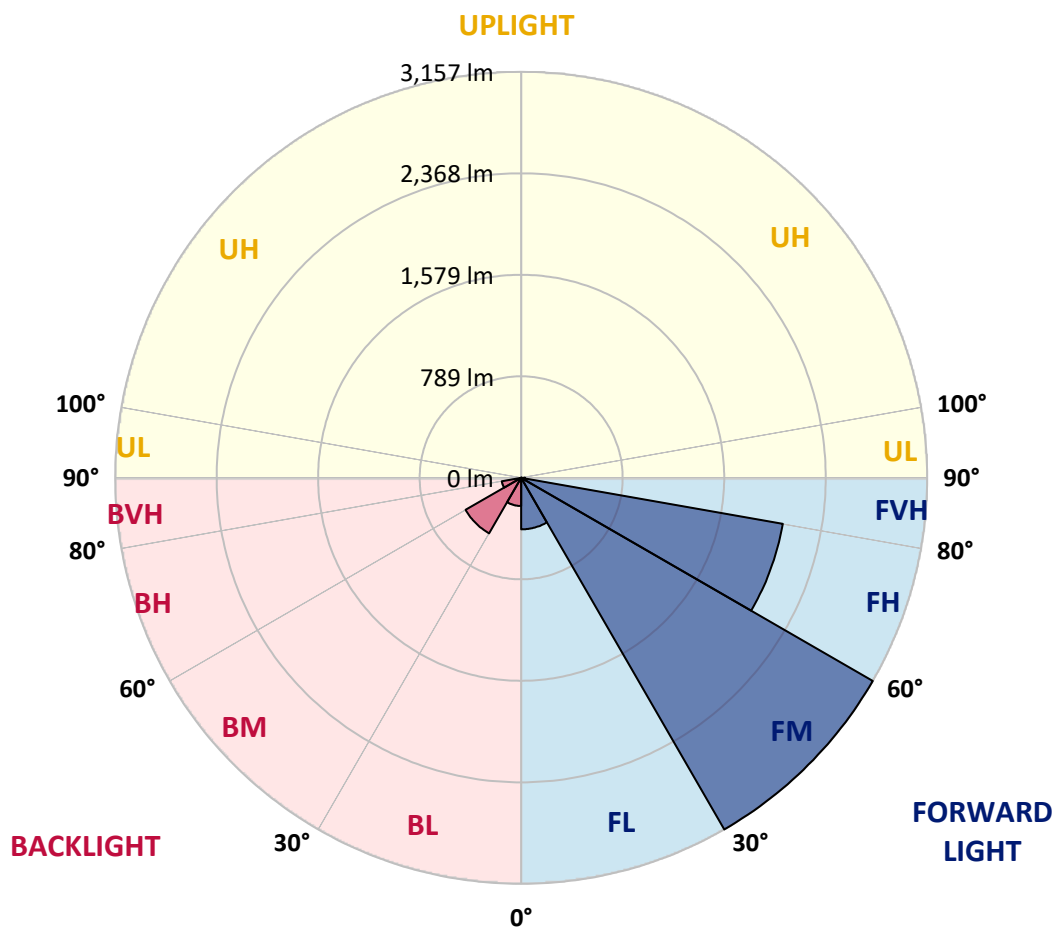
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	400.8	6.1			
FM	(30°-60°)	3157.3	48.4			
FH	(60°-80°)	2066.0	31.7			G2/5000
FVH	(80°-90°)	29.2	0.4			G1/100
BL	(0°-30°)	219.1	3.4	B1/500		
BM	(30°-60°)	498.9	7.6	B1/1000		
BH	(60°-80°)	153.2	2.3	B1/500		G1/500
BVH	(80°-90°)	1.5	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	759.0	759.0	759.0	759.0	759.0	759.0	759.0	759.0	759.0	759.0	759.0
2.5°	756.4	761.7	760.4	759.0	758.6	759.5	759.9	759.5	759.5	759.5	759.9
5°	742.0	746.4	746.4	749.4	753.8	759.0	763.0	763.9	764.7	766.0	765.6
7.5°	714.4	717.9	720.5	730.6	741.5	755.5	767.4	773.5	774.4	779.2	780.9
10°	695.6	700.0	704.4	714.9	730.6	751.6	771.7	786.6	788.8	800.2	805.4
12.5°	694.7	699.1	704.8	716.2	734.5	756.9	781.4	802.8	806.7	823.4	834.3
15°	703.9	709.2	714.4	728.4	748.1	775.2	801.5	828.2	832.1	855.7	867.5
17.5°	722.7	729.7	733.7	747.7	768.7	798.9	833.4	864.0	867.5	895.1	910.0
20°	759.9	768.2	769.5	780.9	801.5	833.9	875.0	913.0	917.4	948.9	965.5
22.5°	836.9	848.7	838.2	843.9	862.3	894.7	939.3	987.4	993.5	1029.4	1044.3
25°	972.5	989.2	962.0	952.4	960.3	994.0	1050.0	1110.8	1117.8	1146.7	1154.1
27.5°	1239.0	1217.5	1176.4	1136.2	1112.5	1131.8	1194.8	1270.0	1278.8	1306.8	1298.0
30°	1531.6	1512.8	1457.3	1368.0	1312.0	1309.0	1367.1	1451.1	1461.2	1487.9	1461.2
32.5°	1824.8	1806.8	1746.5	1636.6	1539.5	1491.4	1531.6	1624.8	1630.1	1647.1	1607.8
35°	2113.1	2094.7	2034.3	1921.9	1802.5	1693.1	1685.2	1790.2	1792.0	1809.9	1751.3
37.5°	2403.1	2387.8	2323.5	2213.3	2095.6	1944.6	1871.6	1946.8	1949.0	1966.5	1905.7
40°	2610.1	2616.6	2572.4	2487.1	2386.1	2221.1	2080.7	2113.5	2100.4	2129.7	2093.4
42.5°	2787.7	2800.8	2762.3	2719.4	2660.8	2515.6	2339.7	2334.0	2313.0	2328.7	2291.1
45°	2941.2	2952.2	2917.6	2907.5	2906.2	2804.3	2622.7	2588.6	2559.3	2556.2	2511.2
47.5°	2997.7	3018.7	3033.5	3067.2	3132.9	3090.0	2915.4	2862.5	2829.7	2805.6	2734.3
50°	3019.1	3041.4	3092.2	3190.2	3345.5	3363.8	3206.8	3147.3	3107.0	3063.3	2958.3
52.5°	2990.2	3030.0	3098.3	3263.2	3488.5	3583.5	3486.3	3434.3	3388.3	3317.0	3161.3
55°	2820.0	2859.9	2999.4	3262.3	3559.8	3737.5	3750.6	3727.4	3675.8	3563.3	3325.3
57.5°	2461.3	2520.4	2741.3	3151.2	3558.5	3870.0	4009.6	4026.2	3968.5	3807.5	3454.4
60°	1964.3	2044.4	2313.9	2904.9	3448.7	3941.8	4236.6	4319.8	4258.5	4048.1	3559.0
62.5°	1370.6	1463.4	1718.5	2519.1	3197.6	3890.1	4402.4	4556.0	4509.6	4263.3	3599.2
65°	836.0	865.8	1071.4	1982.3	2770.6	3674.0	4453.6	4683.7	4668.4	4395.0	3539.7
67.5°	556.9	581.9	640.9	1359.3	2150.7	3242.2	4331.1	4661.4	4665.8	4373.6	3321.8
70°	335.6	357.0	395.5	790.5	1393.8	2566.3	3951.8	4377.1	4402.4	4087.0	2908.9
72.5°	138.2	152.7	187.7	358.3	721.9	1628.8	3146.9	3758.0	3817.1	3436.5	2232.5
75°	78.3	85.7	110.2	179.8	313.2	759.0	1906.1	2667.8	2754.9	2368.6	1343.1
77.5°	52.1	55.6	71.3	116.4	176.3	259.0	814.6	1389.9	1556.1	1293.7	581.4
80°	35.0	38.1	49.0	77.9	114.6	111.1	259.4	514.9	633.5	444.5	141.7
82.5°	23.6	24.1	35.0	51.2	72.6	53.8	76.6	160.1	201.2	128.6	53.8
85°	13.6	13.1	25.8	29.7	32.4	22.3	23.2	48.1	63.0	54.2	30.6
87.5°	1.7	2.6	10.1	7.9	4.4	4.8	4.8	8.3	12.2	13.1	6.6
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°	759.0	759.0	759.0	759.0	759.0	759.0	759.0	759.0	759.0	759.0	759.0
2.5°	759.9	759.5	758.2	756.9	753.8	752.0	752.9	752.0	751.6	752.0	753.8
5°	765.6	764.3	760.8	756.4	750.3	742.9	738.0	731.0	724.5	720.5	721.4
7.5°	780.9	779.6	774.8	762.5	742.9	711.8	683.4	658.4	639.6	628.7	629.1
10°	805.4	803.2	795.8	768.7	717.0	649.2	592.8	546.0	515.4	500.9	499.6
12.5°	834.3	831.7	818.5	763.0	668.0	562.2	484.3	432.2	403.8	391.1	389.8
15°	868.4	864.9	839.1	735.9	596.7	465.9	394.6	355.7	337.3	325.9	326.4
17.5°	910.8	904.7	854.4	695.2	519.3	392.4	339.5	310.2	294.0	283.1	282.2
20°	966.0	955.9	866.7	646.6	448.0	346.1	302.3	277.8	265.6	255.9	254.2
22.5°	1043.0	1028.5	881.5	594.1	397.7	314.1	274.7	256.8	246.7	235.8	234.1
25°	1138.3	1121.3	899.9	545.5	363.1	286.6	254.6	239.7	227.9	215.2	213.9
27.5°	1271.8	1241.2	921.8	505.7	333.4	262.9	236.2	219.6	206.1	195.6	193.4
30°	1420.5	1370.2	941.0	481.7	306.2	241.1	212.2	195.6	182.9	175.4	174.1
32.5°	1561.4	1493.1	953.7	471.2	281.7	216.1	185.9	168.0	158.4	156.2	157.5
35°	1694.4	1604.3	952.4	461.1	259.9	191.2	160.1	141.7	134.3	135.6	135.6
37.5°	1847.5	1722.8	943.2	445.4	241.9	168.4	137.8	121.6	115.1	115.5	117.2
40°	2025.6	1859.8	937.5	415.6	222.2	147.4	119.4	106.3	101.5	99.7	99.3
42.5°	2215.4	1992.3	938.4	381.9	197.7	128.6	106.7	95.8	91.4	90.1	89.7
45°	2406.2	2118.8	939.7	346.9	171.9	114.2	97.6	88.4	85.7	84.0	84.0
47.5°	2585.6	2226.4	915.2	309.3	146.6	103.2	90.1	84.0	81.8	79.6	79.6
50°	2752.7	2298.1	856.2	265.6	126.4	94.5	84.4	80.1	77.9	75.7	75.7
52.5°	2882.6	2309.5	758.6	220.5	112.4	87.9	80.9	77.0	74.4	72.2	71.7
55°	2940.4	2238.2	619.9	178.5	101.5	82.2	77.4	73.5	70.4	68.2	67.8
57.5°	2925.5	2088.1	483.4	143.5	91.0	76.6	73.1	70.4	66.9	63.4	63.0
60°	2852.4	1887.3	364.4	119.4	81.4	70.4	68.2	66.1	61.2	56.0	55.1
62.5°	2726.0	1634.9	259.9	98.9	70.9	63.4	62.6	60.8	53.8	44.2	43.3
65°	2532.6	1328.2	175.0	82.2	60.8	55.6	56.0	52.9	43.7	32.8	31.9
67.5°	2250.0	971.2	112.0	67.4	50.7	46.4	46.8	45.1	37.2	28.0	26.7
70°	1889.9	643.1	73.1	51.2	40.7	35.9	38.5	38.9	31.5	22.7	21.9
72.5°	1385.5	379.7	51.2	38.1	29.7	24.9	31.5	32.4	25.4	17.1	16.2
75°	789.7	180.2	38.5	27.6	18.4	17.5	24.5	24.5	17.5	11.4	10.5
77.5°	331.6	75.2	27.1	17.9	10.5	10.1	16.6	15.3	8.7	5.2	5.2
80°	95.8	33.7	14.4	8.7	4.4	3.9	6.6	4.8	2.2	0.9	0.9
82.5°	37.6	14.9	5.7	3.5	1.7	1.7	0.9	0.0	0.0	0.0	0.0
85°	22.3	6.1	2.6	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	1.3	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	0.0

(END OF REPORT)