

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: P947358

Luminaire Tested: **GALN-SB2D-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-727-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18448 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

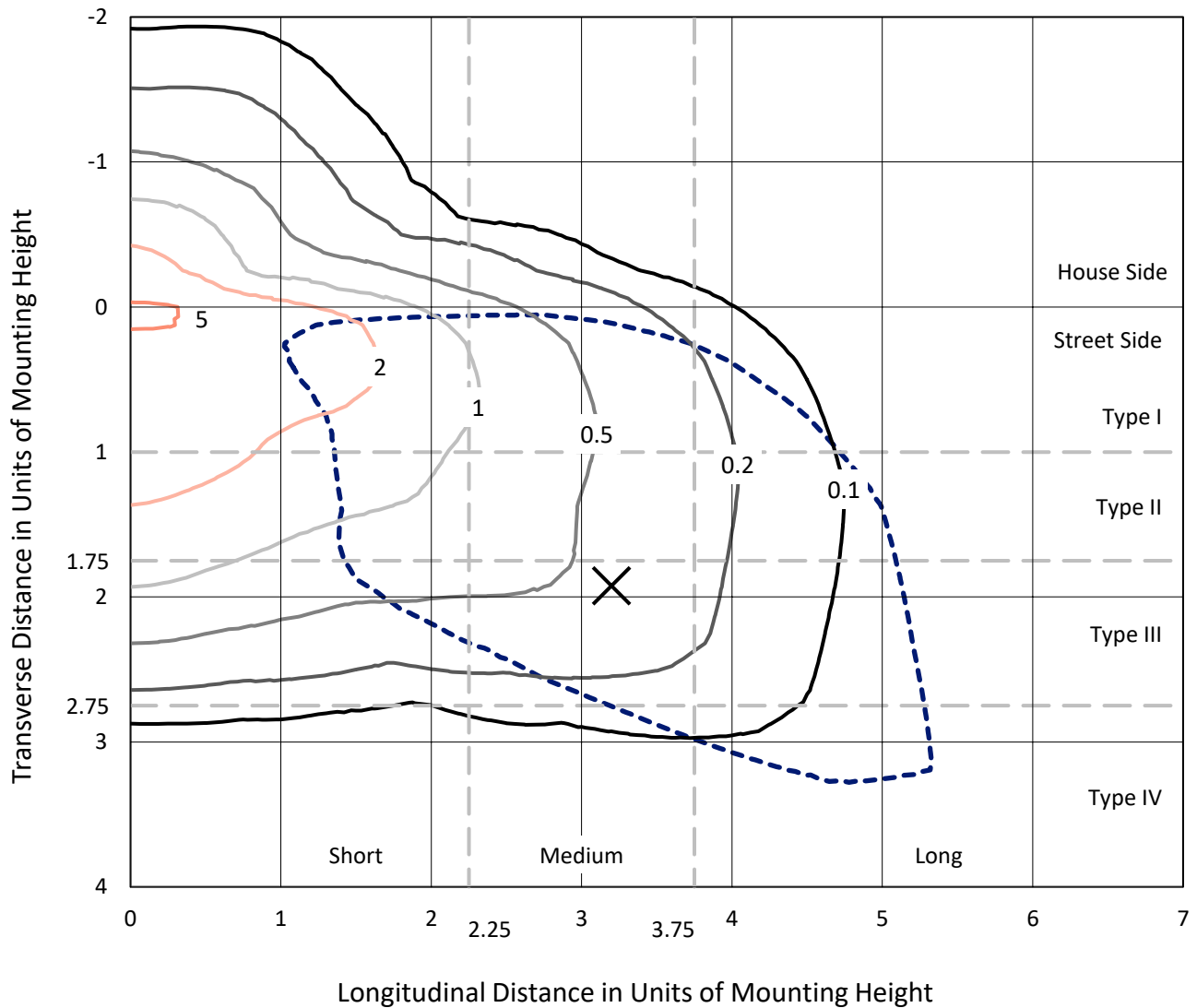
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947358
 CATALOG NUMBER: GALN-SB2D-727-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

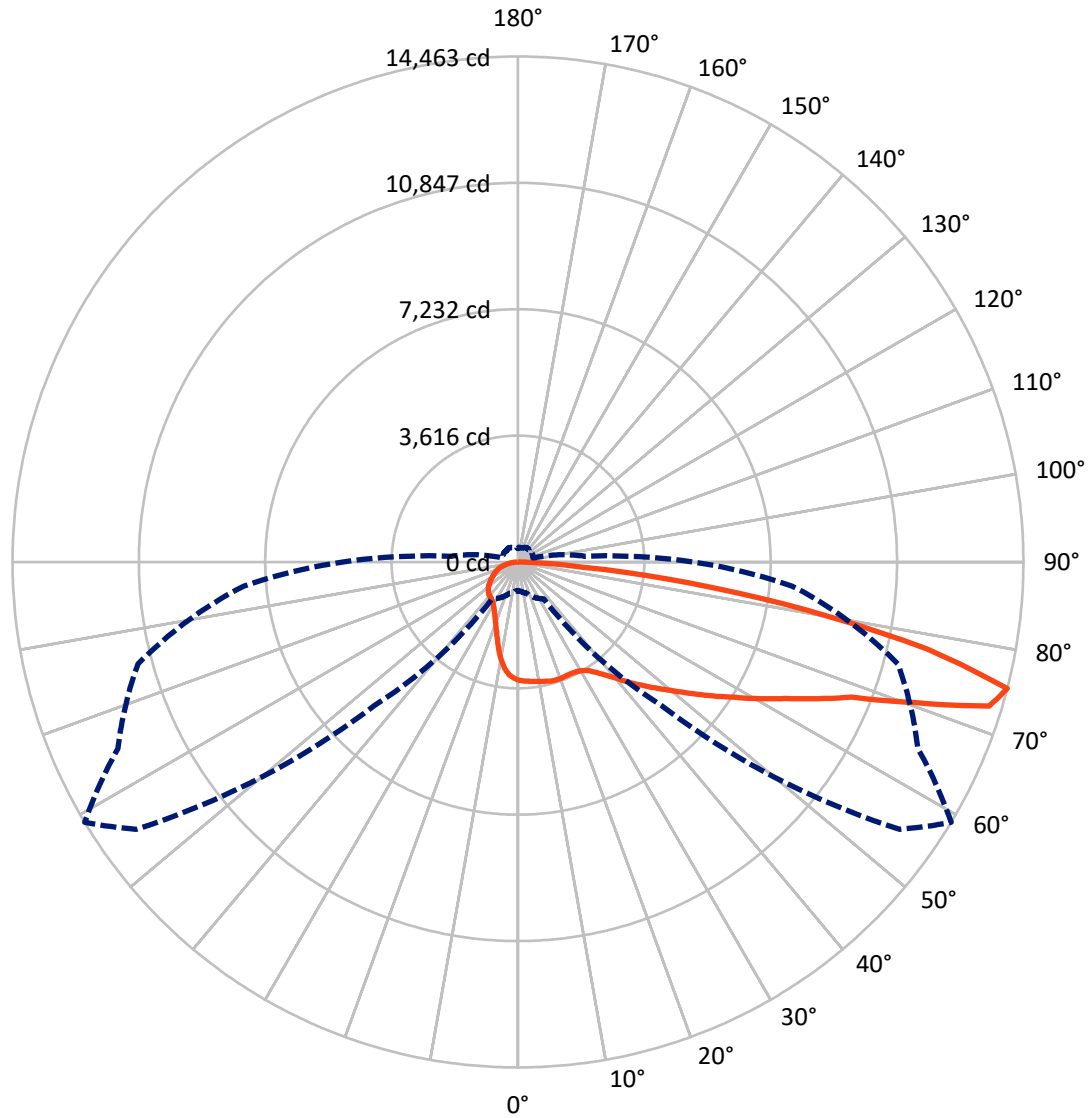
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Medium - N/A

REPORT NUMBER: P947358
CATALOG NUMBER: GALN-SB2D-727-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P947358
 CATALOG NUMBER: GALN-SB2D-727-U-SL3

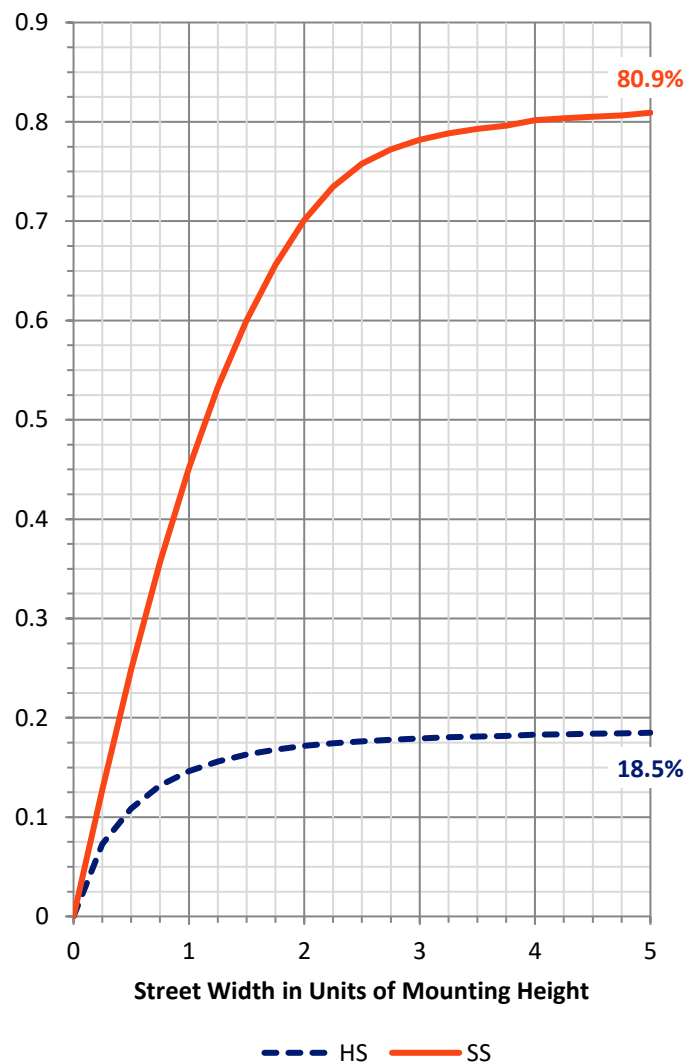
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3460.1	0.0	3460.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	14987.9	0.0	14987.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	18448.0	0.0	18448.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.6	1.6
10°-20°	776.1	4.2
20°-30°	1178.8	6.4
30°-40°	1752.2	9.5
40°-50°	2605.9	14.1
50°-60°	3537.2	19.2
60°-70°	4318.3	23.4
70°-80°	3388.9	18.4
80°-90°	587.0	3.2
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°	18448.0	100.0
0°-180°	18448.0	100.0

Coefficient of Utilization



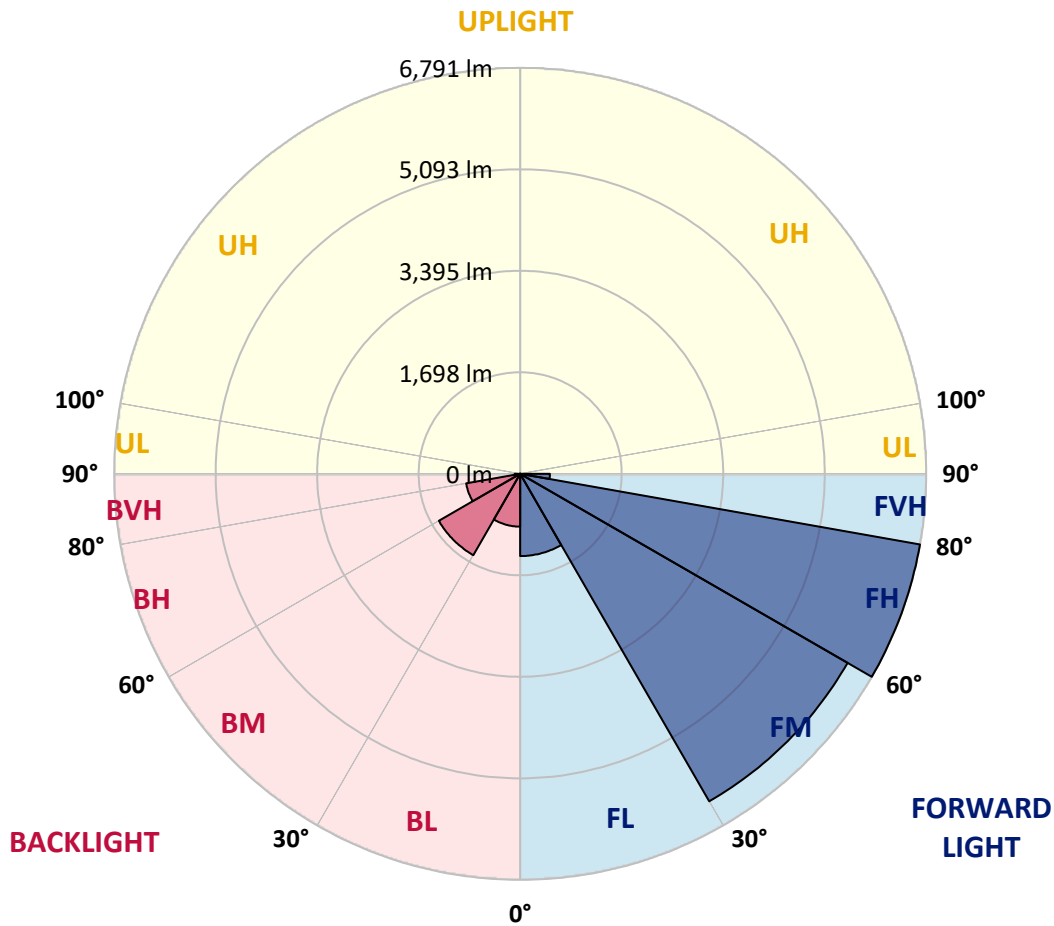
REPORT NUMBER: P947358
 CATALOG NUMBER: GALN-SB2D-727-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1375.5	7.5			
FM (30°-60°)	6324.7	34.3			
FH (60°-80°)	6790.5	36.8			G3/7500
FVH (80°-90°)	497.2	2.7			G3/500
BL (0°-30°)	883.0	4.8	B2/1000		
BM (30°-60°)	1570.5	8.5	B2/2500		
BH (60°-80°)	916.7	5.0	B2/1000		G2/1000
BVH (80°-90°)	89.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



REPORT NUMBER: P947358
 CATALOG NUMBER: GALN-SB2D-727-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3386.1	3386.1	3386.1	3386.1	3386.1	3386.1	3386.1	3386.1	3386.1	3386.1	3386.1
2.5°	3414.9	3403.0	3414.9	3409.9	3407.9	3404.0	3404.9	3411.9	3407.9	3412.9	3396.0
5°	3392.0	3385.1	3397.0	3394.0	3406.9	3408.9	3421.8	3429.8	3434.7	3435.7	3422.8
7.5°	3354.3	3347.4	3364.3	3378.2	3405.9	3413.9	3440.7	3453.6	3460.5	3472.4	3453.6
10°	3216.4	3213.4	3255.1	3307.7	3373.2	3413.9	3454.6	3476.4	3487.3	3519.1	3497.2
12.5°	2972.3	2976.2	3030.8	3132.0	3263.0	3394.0	3470.4	3502.2	3519.1	3558.8	3548.8
15°	2739.0	2738.0	2797.6	2905.8	3089.4	3306.7	3478.4	3533.0	3561.7	3620.3	3612.4
17.5°	2604.1	2600.1	2641.8	2724.2	2894.8	3172.7	3458.5	3549.8	3611.4	3684.8	3677.9
20°	2579.3	2571.3	2593.2	2633.8	2754.9	3025.8	3406.9	3549.8	3651.1	3746.3	3742.4
22.5°	2669.6	2656.7	2647.7	2642.8	2696.4	2904.8	3348.4	3537.9	3709.6	3834.7	3827.7
25°	2851.2	2831.3	2785.7	2741.0	2725.1	2850.2	3296.8	3535.0	3796.9	3953.7	3927.9
27.5°	3144.9	3120.1	3027.8	2920.7	2824.4	2878.0	3273.9	3552.8	3893.2	4079.8	4028.2
30°	3509.1	3482.4	3366.2	3201.5	3028.8	2981.2	3302.7	3605.4	4016.3	4247.5	4146.3
32.5°	3835.6	3805.9	3706.6	3538.9	3305.7	3159.8	3394.0	3705.6	4209.8	4480.7	4323.9
35°	4125.4	4090.7	4001.4	3846.6	3645.1	3410.9	3558.8	3883.3	4484.7	4859.8	4565.1
37.5°	4409.3	4368.6	4271.3	4107.6	3966.6	3745.3	3786.0	4111.5	4849.9	5320.3	4884.6
40°	4726.8	4668.3	4550.2	4388.4	4251.5	4137.3	4084.7	4391.4	5221.0	5834.4	5283.6
42.5°	5034.5	4978.9	4838.0	4700.0	4528.3	4495.6	4431.1	4718.9	5626.9	6399.0	5688.5
45°	5365.9	5299.4	5128.8	4954.1	4845.9	4733.8	4766.5	5046.4	6024.9	6974.6	6113.2
47.5°	5676.6	5602.1	5400.7	5206.2	5146.6	4934.2	5074.2	5406.6	6438.7	7558.2	6534.0
50°	5844.3	5770.8	5603.1	5427.5	5380.8	5181.4	5407.6	5802.6	6872.4	8139.7	6937.9
52.5°	5984.2	5904.8	5685.5	5588.2	5574.3	5450.3	5818.5	6255.1	7306.1	8653.8	7327.9
55°	6133.1	6044.7	5764.9	5677.6	5741.1	5752.0	6305.7	6768.2	7764.6	9154.9	7696.1
57.5°	6304.8	6192.6	5841.3	5753.0	5903.8	6105.3	6865.5	7300.1	8215.1	9619.4	8023.6
60°	6466.5	6353.4	5988.2	5873.1	6079.5	6515.1	7507.6	7944.2	8725.2	10033.2	8333.2
62.5°	6498.3	6405.0	6105.3	6104.3	6317.7	6993.5	8267.7	8594.2	9170.8	10442.1	8611.1
65°	5948.5	5889.9	5712.3	6095.4	6659.0	7682.2	9114.3	9425.9	9737.5	10799.4	8855.2
67.5°	4527.4	4535.3	4522.4	5261.7	6383.2	8671.6	10339.9	10316.1	10437.1	11200.3	9136.1
70°	2070.2	2116.8	2420.5	3632.2	5113.9	8785.8	12366.4	12057.7	11315.4	11719.3	9379.2
72.5°	1118.4	1154.2	1278.2	1759.5	3074.5	7811.2	13880.8	14100.1	12483.5	12068.6	9112.3
75°	820.7	840.6	926.9	1118.4	1291.1	5805.6	13337.9	14463.3	12629.4	11253.9	7868.8
77.5°	614.3	623.2	693.7	886.2	660.9	3060.6	10657.4	11978.3	10811.3	9246.2	5812.5
80°	445.6	455.5	508.1	664.9	463.5	1119.4	7318.0	8407.7	7404.3	5893.9	2896.8
82.5°	307.6	311.6	334.4	452.5	323.5	434.7	4152.2	4930.3	4133.4	2068.2	782.0
85°	185.6	190.5	200.5	264.0	183.6	206.4	1792.3	1853.8	1235.5	494.2	243.1
87.5°	76.4	81.4	89.3	111.1	72.4	57.6	295.7	371.2	231.2	144.9	75.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947358
 CATALOG NUMBER: GALN-SB2D-727-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3386.1	3386.1	3386.1	3386.1	3386.1	3386.1	3386.1	3386.1	3386.1	3386.1	3386.1
2.5°	3391.1	3384.1	3365.2	3339.4	3315.6	3285.9	3273.0	3262.0	3252.1	3233.3	3224.3
5°	3411.9	3393.0	3342.4	3276.9	3202.5	3121.1	3041.7	2987.1	2940.5	2905.8	2877.0
7.5°	3443.6	3407.9	3315.6	3181.7	3011.0	2836.3	2678.5	2566.4	2482.0	2451.2	2397.7
10°	3476.4	3433.7	3273.0	3036.8	2742.0	2473.1	2263.7	2148.6	2081.1	2059.2	2025.5
12.5°	3515.1	3452.6	3206.5	2835.3	2441.3	2146.6	1964.0	1896.5	1861.8	1849.8	1852.8
15°	3571.7	3468.5	3106.2	2583.2	2154.5	1908.4	1790.3	1743.7	1725.8	1724.8	1728.8
17.5°	3614.3	3471.4	2950.4	2313.3	1934.2	1764.5	1667.2	1649.4	1661.3	1679.2	1686.1
20°	3662.0	3444.6	2746.0	2067.2	1779.4	1638.5	1597.8	1609.7	1638.5	1664.3	1673.2
22.5°	3695.7	3396.0	2498.9	1875.6	1645.4	1566.0	1564.0	1588.8	1604.7	1617.6	1624.6
25°	3725.5	3313.6	2236.9	1714.9	1535.3	1522.4	1544.2	1536.2	1525.3	1536.2	1543.2
27.5°	3747.3	3183.6	2002.7	1574.0	1457.8	1492.6	1479.7	1461.8	1460.8	1466.8	1476.7
30°	3740.4	3010.0	1810.1	1440.0	1403.3	1437.0	1406.2	1403.3	1400.3	1403.3	1414.2
32.5°	3740.4	2812.5	1662.3	1347.7	1368.5	1355.6	1352.6	1345.7	1333.8	1332.8	1345.7
35°	3761.2	2615.0	1535.3	1298.1	1339.7	1309.0	1311.0	1294.1	1269.3	1257.4	1269.3
37.5°	3803.9	2456.2	1409.2	1274.2	1289.1	1288.1	1280.2	1251.4	1207.8	1170.0	1182.9
40°	3907.1	2409.6	1322.9	1263.3	1265.3	1277.2	1256.4	1200.8	1101.6	1040.0	1048.0
42.5°	4068.9	2488.0	1304.0	1236.5	1249.4	1261.3	1220.7	1091.6	1021.2	984.5	984.5
45°	4274.3	2624.9	1344.7	1197.8	1211.7	1232.6	1111.5	1050.0	1018.2	1019.2	1024.2
47.5°	4534.3	2768.8	1420.1	1164.1	1157.1	1169.1	1039.0	1001.3	957.7	968.6	996.4
50°	4835.0	2914.7	1491.6	1118.4	1096.6	1057.9	992.4	956.7	901.1	875.3	882.2
52.5°	5160.5	3055.6	1520.4	1062.9	1031.1	986.5	960.6	917.0	849.5	806.8	805.8
55°	5469.1	3183.6	1488.6	996.4	965.6	930.9	926.9	900.1	827.7	768.1	768.1
57.5°	5760.9	3290.8	1409.2	928.9	899.1	878.3	905.1	892.2	800.9	724.5	720.5
60°	6008.0	3364.3	1294.1	860.4	839.6	828.7	869.3	865.4	763.2	677.8	674.8
62.5°	6204.5	3393.0	1167.1	794.9	790.0	770.1	819.7	819.7	715.5	632.2	629.2
65°	6358.3	3365.2	1038.1	730.4	740.3	710.6	759.2	753.2	664.9	591.5	587.5
67.5°	6494.3	3273.9	895.2	666.9	689.7	652.0	695.7	681.8	609.3	550.8	546.8
70°	6554.8	3061.6	732.4	603.4	631.2	594.5	632.2	606.4	546.8	507.1	499.2
72.5°	6068.6	2544.5	576.6	536.9	560.7	530.9	563.7	533.9	479.3	461.5	446.6
75°	5020.6	1909.4	443.6	464.4	482.3	459.5	481.3	459.5	409.9	422.8	386.0
77.5°	3646.1	1289.1	339.4	388.0	396.0	384.1	402.9	378.1	333.4	330.5	315.6
80°	1813.1	755.2	266.0	306.7	303.7	295.7	317.6	305.7	267.9	283.8	280.9
82.5°	525.0	323.5	193.5	215.4	209.4	211.4	227.3	233.2	349.3	346.3	354.3
85°	164.7	127.0	116.1	120.1	114.1	117.1	134.0	266.0	246.1	143.9	155.8
87.5°	42.7	43.7	28.8	30.8	31.8	37.7	42.7	161.8	77.4	50.6	53.6
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)