

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: P454151

Luminaire Tested: **GALN-SA5B-727-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17815 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

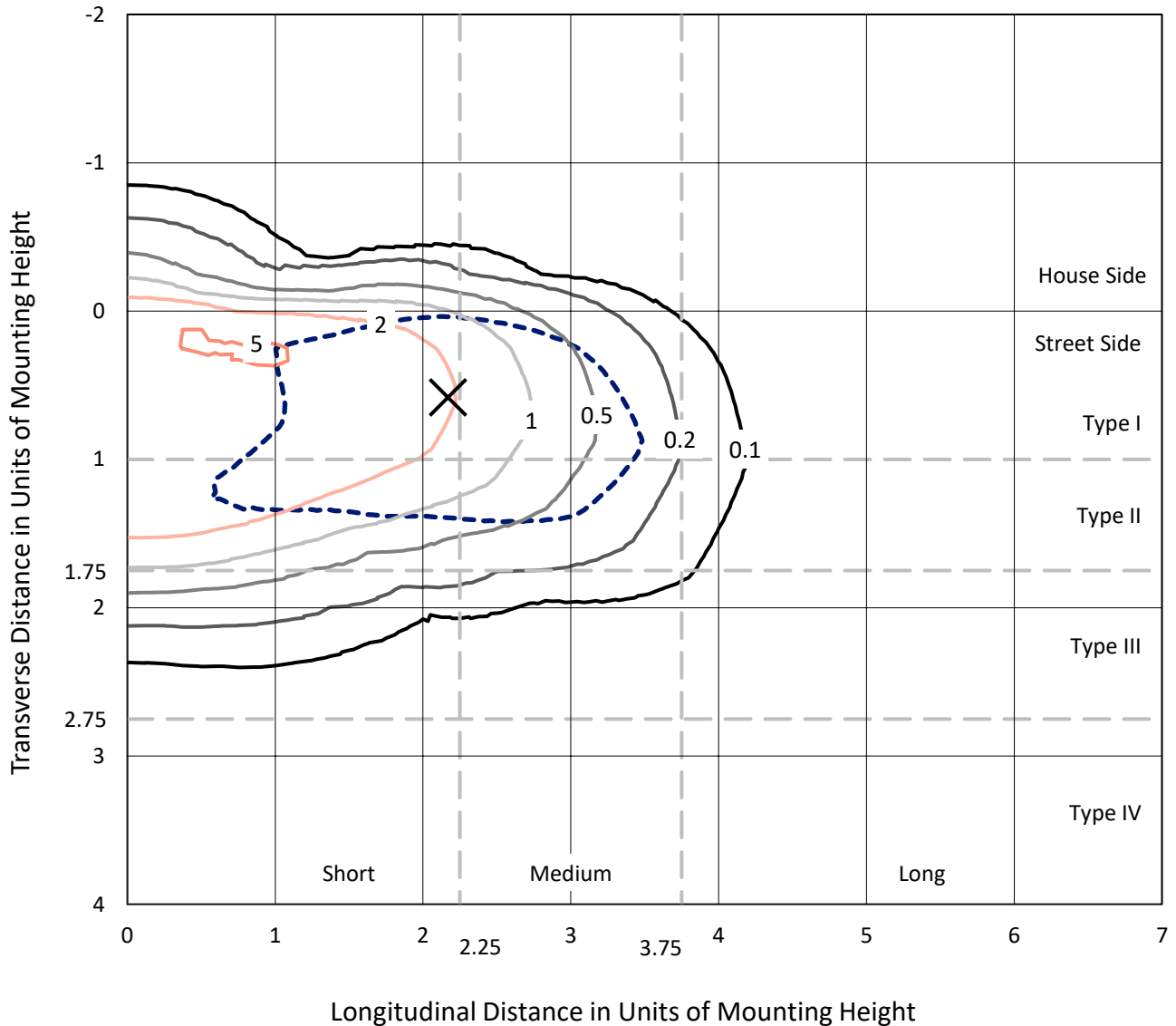
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

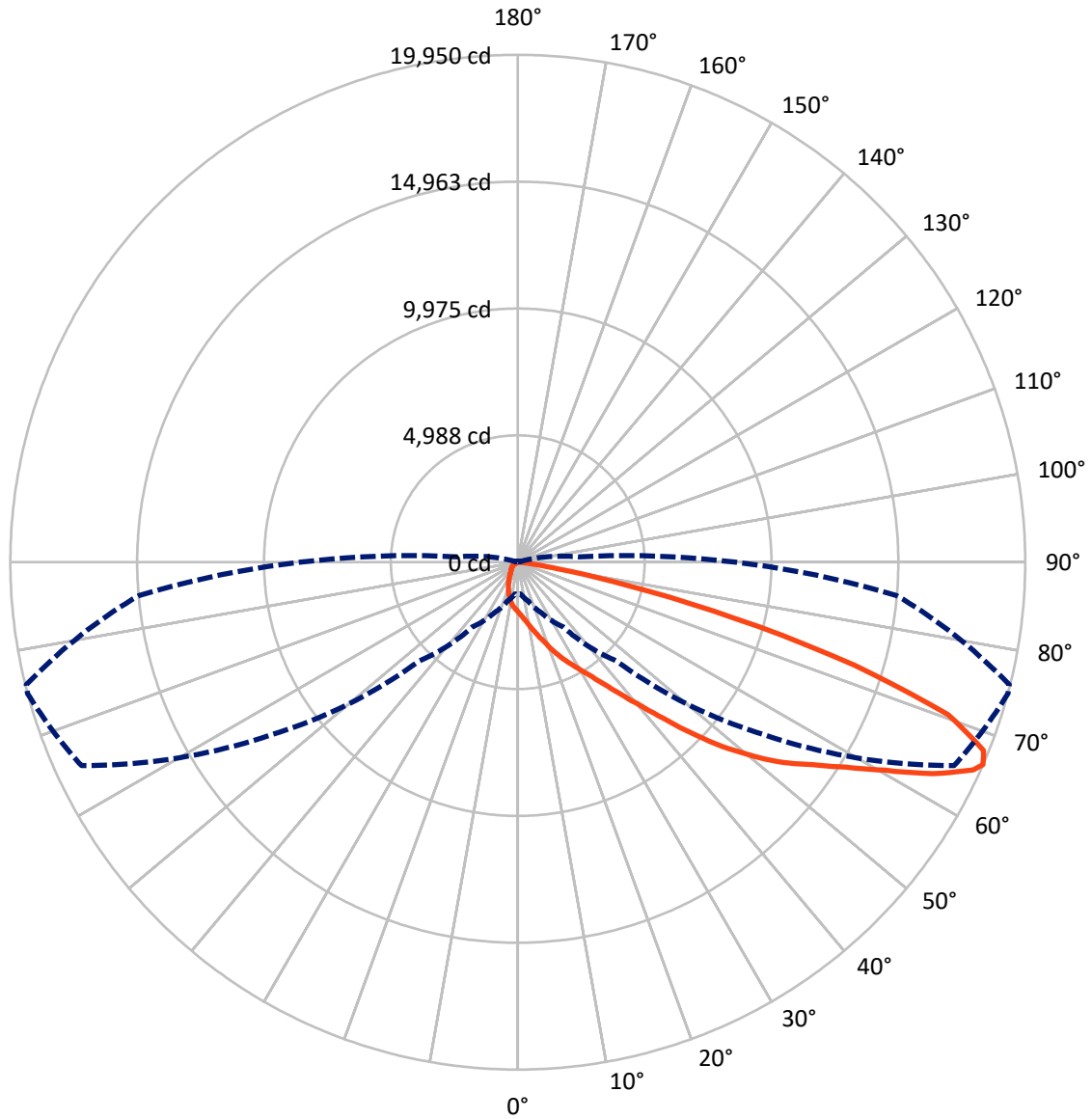
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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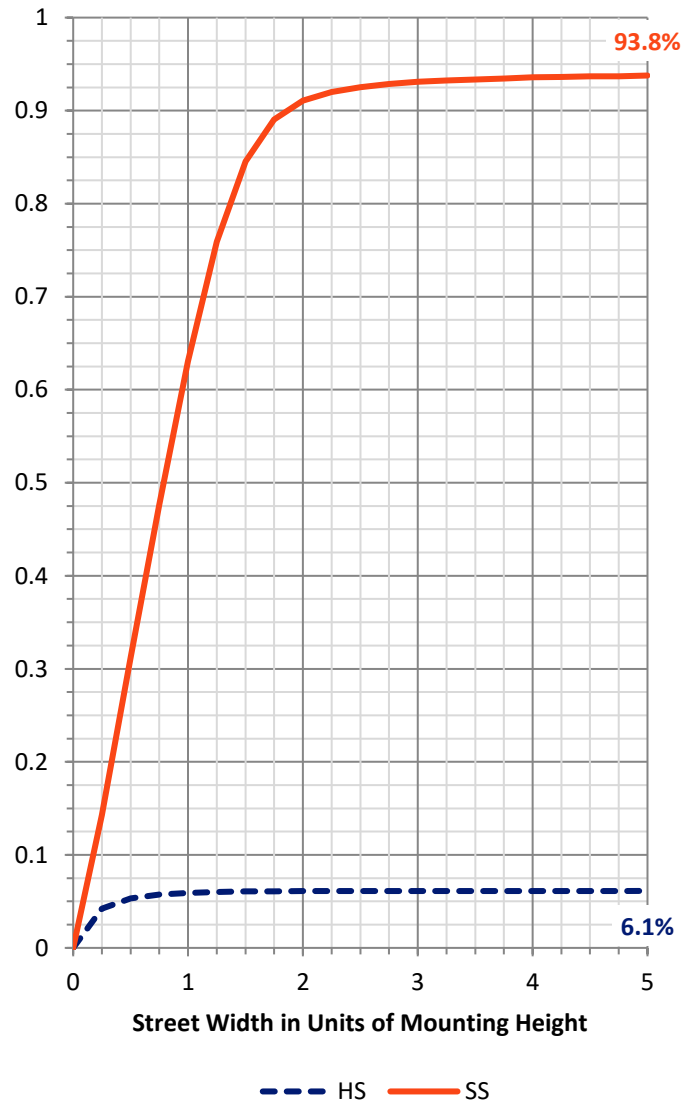
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1099.8	0.0	1099.8
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	16715.2	0.0	16715.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	17815.0	0.0	17815.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.9	1.1
10°-20°	553.0	3.1
20°-30°	955.0	5.4
30°-40°	1722.6	9.7
40°-50°	3111.9	17.5
50°-60°	4851.4	27.2
60°-70°	4608.6	25.9
70°-80°	1727.2	9.7
80°-90°	97.4	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°	17815.0	100.0
0°-180°	17815.0	100.0



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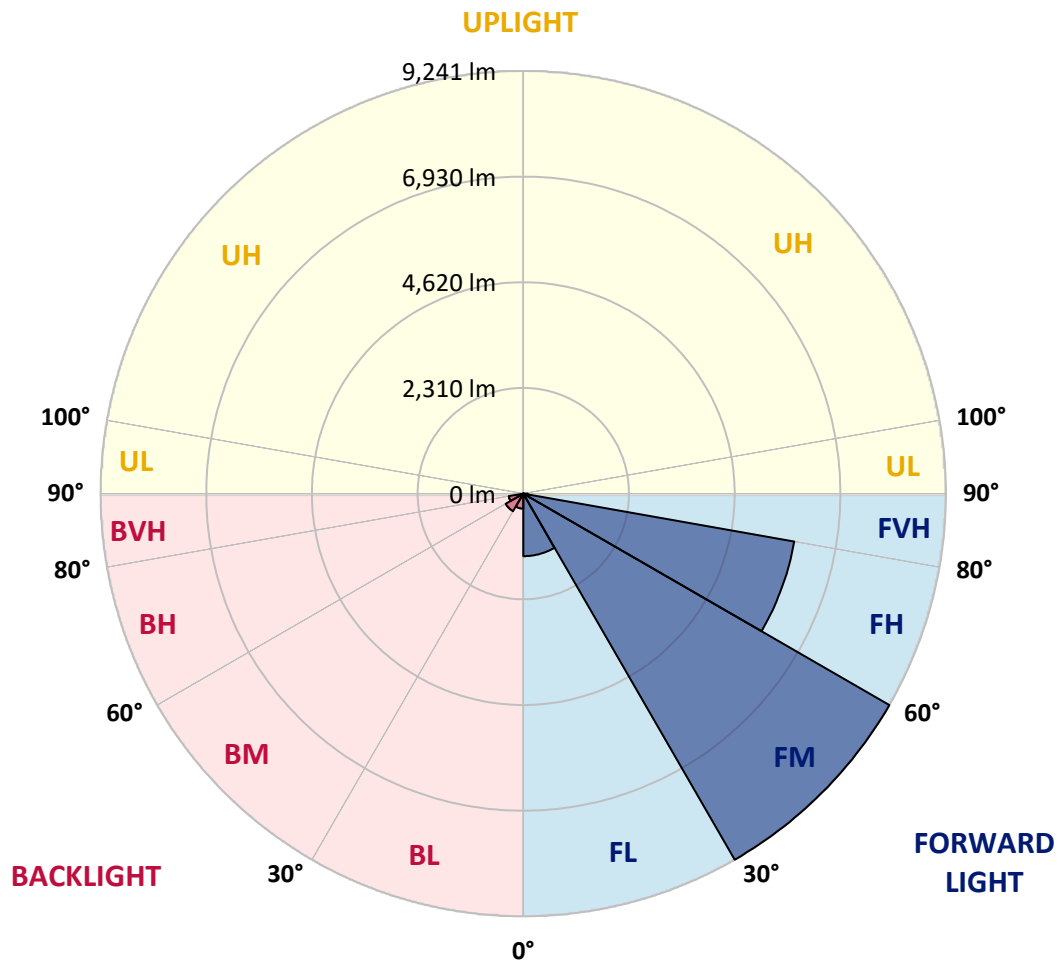
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1367.5	7.7			
FM (30°-60°)	9240.6	51.9			
FH (60°-80°)	6014.7	33.8			G3/7500
FVH (80°-90°)	92.4	0.5			G1/100
BL (0°-30°)	328.5	1.8	B1/500		
BM (30°-60°)	445.2	2.5	B1/1000		
BH (60°-80°)	321.2	1.8	B1/500		G1/500
BVH (80°-90°)	5.0	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1948.2	1948.2	1948.2	1948.2	1948.2	1948.2	1948.2	1948.2	1948.2	1948.2	1948.2
2.5°	2327.6	2298.6	2307.9	2294.7	2264.4	2219.6	2180.1	2123.4	2066.8	2057.6	1994.4
5°	2634.5	2626.6	2616.1	2577.9	2556.8	2488.3	2406.7	2309.2	2191.9	2170.9	2056.3
7.5°	2844.0	2840.0	2845.3	2825.5	2807.1	2745.2	2658.3	2525.2	2343.4	2331.6	2140.6
10°	2912.5	2923.0	2942.8	2974.4	3003.4	2983.6	2917.8	2751.8	2539.7	2505.5	2236.7
12.5°	2873.0	2884.8	2932.2	3016.6	3110.1	3164.1	3137.7	3016.6	2747.8	2720.2	2344.7
15°	2771.5	2786.0	2853.2	2983.6	3150.9	3303.7	3369.6	3282.6	2990.2	2945.4	2475.2
17.5°	2621.4	2642.4	2738.6	2911.2	3140.4	3403.8	3589.6	3560.6	3248.4	3206.2	2617.4
20°	2508.1	2523.9	2605.6	2803.2	3095.6	3459.2	3799.0	3880.7	3567.2	3494.7	2784.7
22.5°	2583.2	2588.4	2616.1	2734.7	3015.2	3473.6	3983.4	4214.0	3905.7	3841.2	2958.6
25°	2950.7	2898.0	2870.3	2844.0	2998.1	3460.5	4150.7	4561.7	4242.9	4174.4	3131.2
27.5°	3530.3	3506.6	3366.9	3179.9	3144.3	3477.6	4261.4	4891.0	4560.4	4486.6	3299.8
30°	4161.3	4120.4	4034.8	3760.8	3485.5	3598.8	4341.7	5211.1	4935.8	4838.3	3453.9
32.5°	4740.9	4767.2	4639.4	4357.5	4038.8	3857.0	4445.8	5560.2	5366.6	5245.4	3633.0
35°	5416.6	5469.3	5273.0	5003.0	4630.2	4323.3	4648.7	5954.1	5913.2	5760.4	3909.7
37.5°	6102.9	6134.5	6014.7	5635.3	5299.4	4916.1	5030.7	6440.1	6586.4	6456.0	4240.3
40°	6679.9	6723.4	6635.1	6297.9	5939.6	5602.4	5585.2	6969.7	7387.3	7252.9	4733.0
42.5°	7121.2	7154.1	7156.7	6918.3	6595.6	6442.8	6292.6	7645.5	8391.0	8235.6	5304.7
45°	7678.4	7725.8	7698.1	7536.1	7295.1	7267.4	7189.7	8462.2	9592.4	9396.1	6046.3
47.5°	8539.9	8571.5	8503.0	8312.0	8067.0	8110.4	8064.3	9377.7	10817.4	10648.8	6814.3
50°	9137.9	9190.6	9288.1	9364.5	9186.7	9026.0	8889.0	10232.6	11980.6	11829.1	7599.3
52.5°	9131.3	9218.3	9526.5	9911.2	10299.8	10251.0	9857.2	11177.1	13091.1	12904.0	8337.0
55°	8516.2	8684.8	9137.9	9820.3	10896.5	11432.6	11253.5	12270.4	14050.0	13923.6	9191.9
57.5°	7246.3	7349.1	7978.7	8932.4	10563.2	11988.5	12871.1	13752.3	15200.0	15140.7	10519.7
60°	4873.9	4920.0	5730.1	6909.1	8993.0	11433.9	14056.6	15545.1	16616.1	16587.1	12070.2
62.5°	2792.6	2812.4	3399.9	4394.4	6399.3	9689.9	14156.7	17756.8	18314.0	18329.8	13864.3
65°	1503.0	1513.5	1987.8	2579.2	3893.9	6906.5	12730.1	18968.7	19686.6	19716.9	14976.1
66°	1297.5	1247.5	1582.0	2198.5	3098.2	5497.0	11827.8	18925.3	19950.1	19917.2	14936.6
67.5°	986.6	1031.4	1263.3	1690.1	2296.0	3908.3	9764.9	18083.5	19749.9	19647.1	14329.3
70°	706.1	724.5	899.7	1205.3	1563.6	2144.5	6239.9	15019.5	17950.5	17812.2	12483.8
72.5°	455.8	475.5	637.6	872.0	1130.2	1171.1	3493.4	10851.7	13839.3	13819.5	9401.4
75°	325.4	343.8	421.5	624.4	849.6	724.5	1682.2	7313.5	8798.1	8738.8	5815.8
77.5°	235.8	245.0	281.9	408.4	607.3	519.0	779.8	3905.7	4379.9	4586.7	2570.0
80°	135.7	143.6	196.3	249.0	411.0	354.3	372.8	1567.6	1616.3	1538.6	803.5
82.5°	67.2	76.4	117.2	169.9	256.9	238.4	171.2	471.6	497.9	484.8	202.9
85°	15.8	19.8	65.9	112.0	125.1	106.7	83.0	138.3	171.2	167.3	77.7
87.5°	1.3	2.6	23.7	19.8	21.1	35.6	29.0	35.6	55.3	51.4	27.7
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°	1948.2	1948.2	1948.2	1948.2	1948.2	1948.2	1948.2	1948.2	1948.2	1948.2	1948.2
2.5°	1965.4	1940.3	1867.9	1796.8	1737.5	1675.6	1618.9	1586.0	1572.8	1558.3	1564.9
5°	1993.0	1932.4	1786.2	1659.8	1535.9	1430.6	1346.3	1292.2	1265.9	1261.9	1255.4
7.5°	2029.9	1925.9	1699.3	1501.7	1339.7	1222.4	1126.3	1048.5	1024.8	1003.8	986.6
10°	2074.7	1914.0	1591.3	1335.7	1163.2	1015.6	889.2	796.9	749.5	736.4	745.6
12.5°	2122.1	1891.6	1478.0	1182.9	984.0	795.6	678.4	632.3	619.1	613.8	615.2
15°	2169.5	1863.9	1359.4	1035.4	783.8	634.9	580.9	569.1	563.8	561.2	558.5
17.5°	2213.0	1819.2	1226.4	891.8	634.9	542.7	523.0	512.4	501.9	497.9	491.3
20°	2264.4	1767.8	1106.5	731.1	537.4	491.3	467.6	447.9	432.1	421.5	420.2
22.5°	2313.1	1701.9	981.4	605.9	490.0	441.3	403.1	382.0	363.6	350.4	354.3
25°	2339.5	1621.6	869.4	528.2	446.6	391.2	349.1	322.7	303.0	296.4	295.1
27.5°	2339.5	1522.8	760.1	483.4	407.0	346.4	303.0	277.9	264.8	255.6	256.9
30°	2321.0	1413.4	658.6	449.2	372.8	306.9	266.1	243.7	233.2	226.6	225.3
32.5°	2306.5	1309.4	571.7	416.3	337.2	272.7	237.1	220.0	209.4	202.9	202.9
35°	2328.9	1219.8	504.5	383.3	304.3	246.3	214.7	198.9	188.4	183.1	181.8
37.5°	2388.2	1138.1	453.1	347.8	274.0	223.9	198.9	180.5	169.9	163.3	160.7
40°	2534.4	1092.0	414.9	314.8	245.0	205.5	180.5	163.3	150.2	143.6	142.3
42.5°	2768.9	1093.3	378.1	284.5	222.6	189.7	164.7	144.9	130.4	123.8	122.5
45°	3121.9	1143.4	349.1	255.6	202.9	172.6	147.5	126.5	113.3	106.7	106.7
47.5°	3544.8	1240.9	324.0	230.5	184.4	156.8	130.4	109.3	96.2	90.9	90.9
50°	4003.2	1367.3	299.0	204.2	168.6	139.6	112.0	94.8	84.3	80.4	80.4
52.5°	4470.8	1520.1	274.0	183.1	151.5	121.2	96.2	84.3	75.1	72.4	71.1
55°	5084.7	1715.1	247.6	160.7	133.0	104.1	85.6	73.8	63.2	59.3	58.0
57.5°	6029.2	2008.8	218.7	140.9	109.3	86.9	73.8	61.9	50.1	43.5	42.2
60°	7168.6	2367.1	188.4	123.8	88.3	71.1	59.3	47.4	36.9	29.0	27.7
62.5°	8235.6	2595.0	159.4	104.1	69.8	54.0	42.2	35.6	26.3	18.4	17.1
65°	8707.2	2518.6	131.7	84.3	55.3	38.2	27.7	25.0	15.8	7.9	6.6
66°	8550.4	2405.3	121.2	76.4	50.1	32.9	23.7	21.1	11.9	4.0	4.0
67.5°	8088.1	2137.9	105.4	65.9	43.5	26.3	18.4	15.8	6.6	1.3	0.0
70°	6930.2	1729.6	83.0	48.7	31.6	18.4	10.5	7.9	4.0	0.0	0.0
72.5°	5323.1	1288.3	65.9	36.9	22.4	10.5	5.3	2.6	4.0	0.0	0.0
75°	3261.6	736.4	51.4	27.7	14.5	6.6	4.0	0.0	4.0	1.3	0.0
77.5°	1447.7	330.6	34.2	18.4	10.5	5.3	2.6	0.0	2.6	1.3	0.0
80°	366.2	108.0	19.8	13.2	7.9	4.0	1.3	0.0	2.6	2.6	1.3
82.5°	100.1	39.5	14.5	10.5	6.6	4.0	1.3	0.0	2.6	2.6	2.6
85°	39.5	18.4	13.2	10.5	7.9	4.0	1.3	0.0	2.6	2.6	2.6
87.5°	18.4	13.2	13.2	11.9	9.2	4.0	1.3	0.0	2.6	1.3	2.6
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)