

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: P651921

Luminaire Tested: **GALN-SA5A-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15080 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

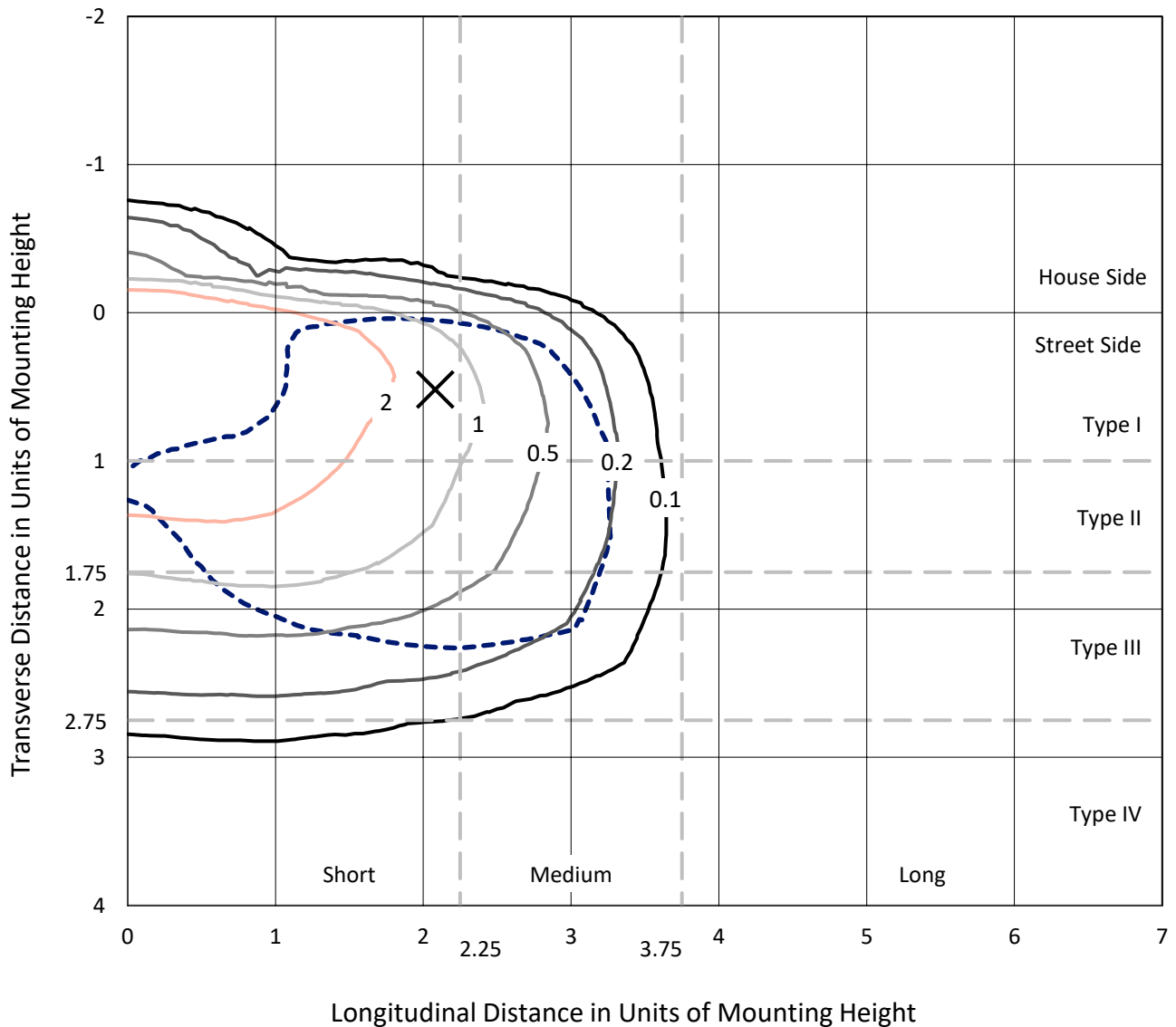
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

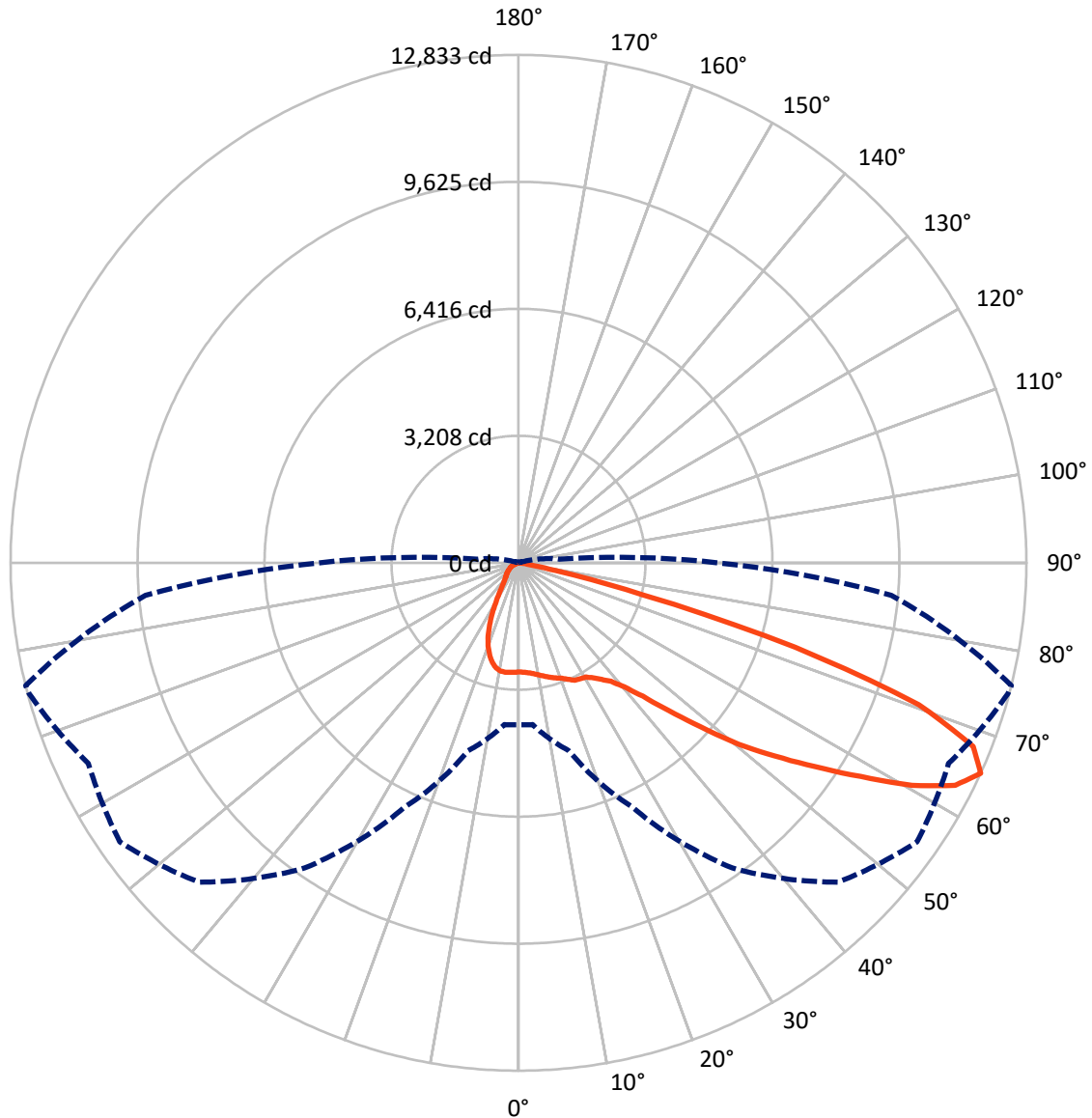
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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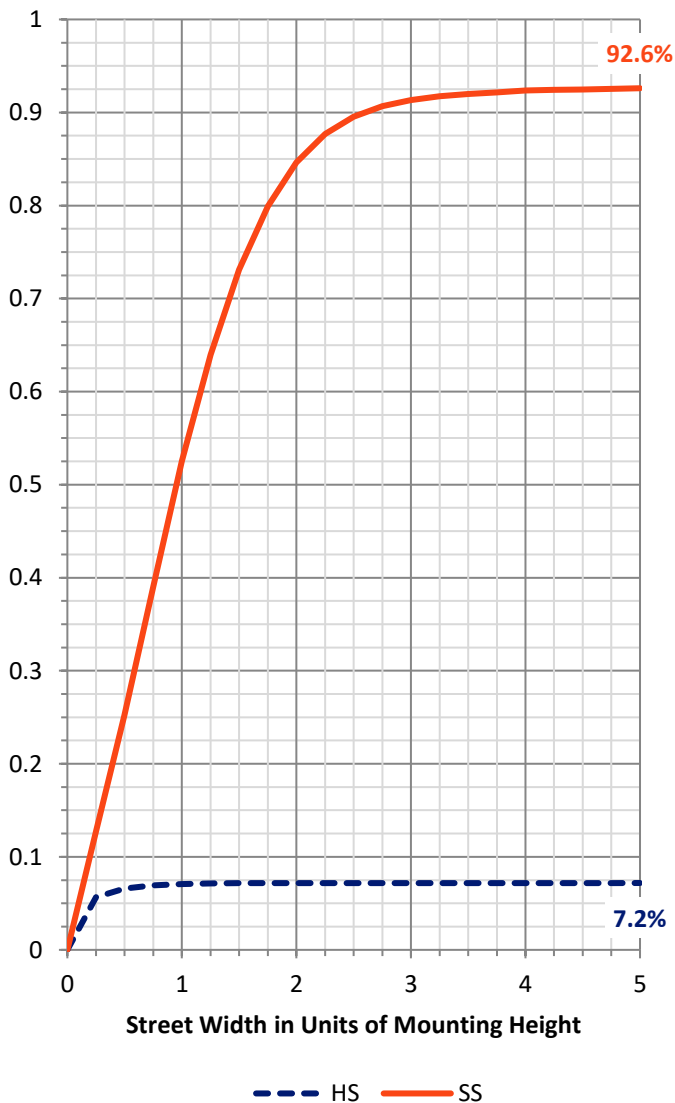
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1089.1	0.0	1089.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	13990.9	0.0	13990.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	15080.0	0.0	15080.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.2	1.5
10°-20°	506.0	3.4
20°-30°	815.3	5.4
30°-40°	1417.7	9.4
40°-50°	2342.6	15.5
50°-60°	3618.9	24.0
60°-70°	4419.1	29.3
70°-80°	1677.2	11.1
80°-90°	56.0	0.4
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°	15080.0	100.0
0°-180°	15080.0	100.0

Coefficient of Utilization



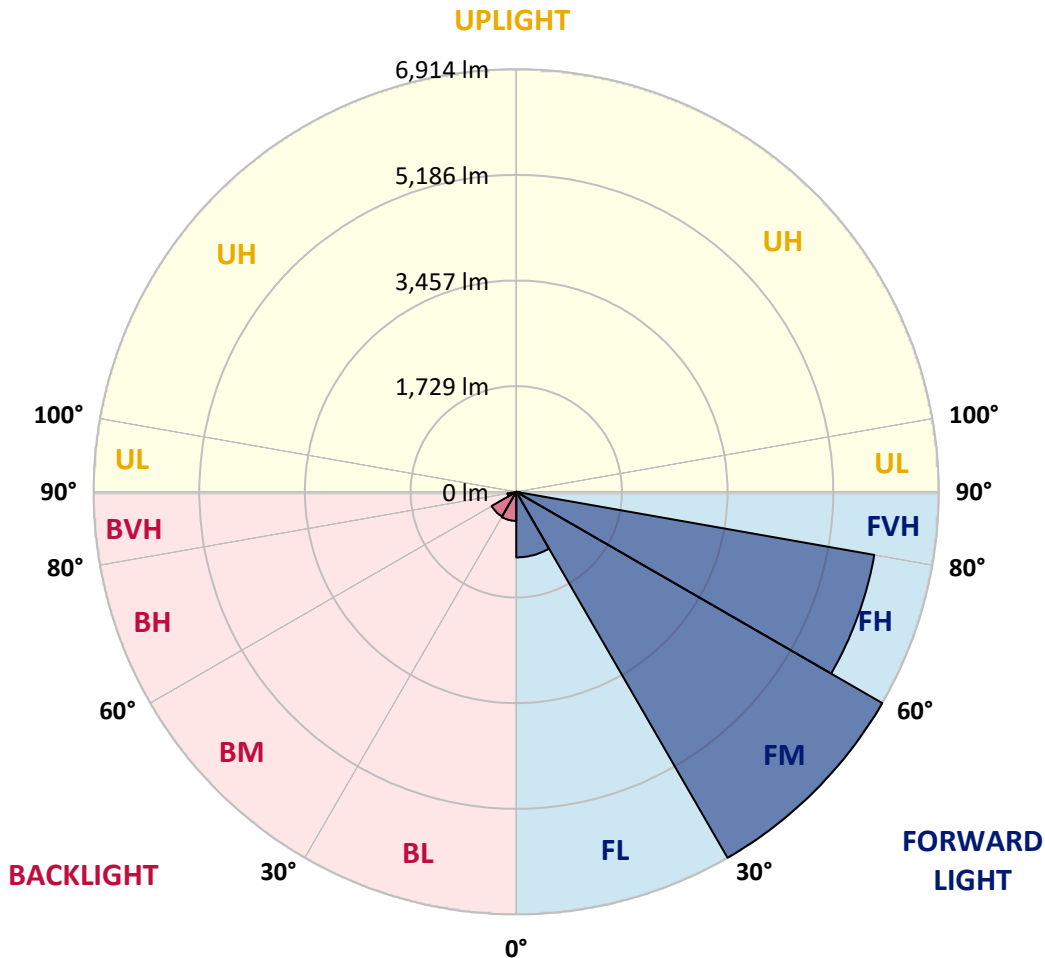
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1072.8	7.1			
FM (30°-60°)	6914.4	45.9			
FH (60°-80°)	5948.5	39.4			G3/7500
FVH (80°-90°)	55.2	0.4			G1/100
BL (0°-30°)	475.8	3.2	B1/500		
BM (30°-60°)	464.7	3.1	B1/1000		
BH (60°-80°)	147.8	1.0	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2758.6	2758.6	2758.6	2758.6	2758.6	2758.6	2758.6	2758.6	2758.6	2758.6	2758.6
2.5°	2636.2	2637.2	2643.6	2659.6	2684.1	2704.3	2721.3	2749.1	2768.2	2770.3	2776.7
5°	2454.1	2441.3	2454.1	2495.7	2532.9	2589.4	2658.6	2727.7	2789.5	2793.7	2823.6
7.5°	2249.7	2260.4	2280.5	2323.2	2393.4	2479.7	2579.8	2703.2	2820.4	2831.0	2889.6
10°	2042.0	2065.5	2098.5	2163.5	2261.4	2373.2	2509.5	2686.2	2869.3	2884.2	2985.4
12.5°	1850.5	1861.0	1901.5	1988.8	2110.2	2267.8	2456.2	2676.7	2923.7	2941.7	3087.6
15°	1703.5	1717.3	1752.5	1831.3	1966.5	2168.8	2412.6	2673.5	2976.9	3002.5	3189.8
17.5°	1675.9	1684.4	1699.2	1752.5	1870.6	2090.0	2373.2	2672.4	3027.9	3058.9	3284.5
20°	1789.7	1782.2	1767.4	1762.1	1827.0	2029.3	2344.5	2680.9	3077.0	3112.1	3384.6
22.5°	2075.1	2084.7	1997.4	1894.1	1872.8	2019.7	2340.2	2721.3	3154.7	3196.2	3496.5
25°	2680.9	2607.4	2471.1	2224.1	2037.8	2078.3	2388.1	2817.2	3245.2	3290.9	3597.5
27.5°	3350.5	3328.3	3116.3	2709.6	2362.5	2201.7	2473.3	2890.6	3275.0	3321.9	3655.1
30°	4008.5	4035.2	3792.4	3343.1	2834.2	2430.7	2553.1	2918.3	3301.6	3350.5	3728.6
32.5°	4618.6	4650.6	4437.6	3992.6	3390.0	2826.8	2690.4	3025.8	3413.4	3463.4	3850.9
35°	5098.8	5103.0	4942.3	4587.7	3996.9	3308.0	2987.5	3214.3	3564.6	3623.1	3980.9
37.5°	5539.6	5533.2	5344.7	5039.2	4502.5	3786.0	3361.2	3431.5	3737.1	3797.7	4168.2
40°	5866.4	5870.7	5810.0	5522.5	4974.3	4227.9	3657.2	3634.9	4026.6	4121.4	4440.8
42.5°	6084.7	6124.1	6153.9	6008.0	5567.3	4771.9	4111.8	4070.3	4529.2	4608.0	4826.2
45°	6261.4	6331.7	6480.7	6473.3	6136.9	5439.5	4735.8	4650.6	5241.4	5325.5	5317.1
47.5°	6390.3	6461.6	6708.6	6857.7	6672.4	6086.8	5520.4	5446.9	6092.1	6183.7	5859.0
50°	6456.3	6541.5	6856.6	7145.1	7090.8	6710.8	6414.7	6419.0	7119.6	7208.0	6487.1
52.5°	6301.9	6412.6	6935.4	7455.0	7560.3	7308.0	7252.7	7393.2	8034.2	8109.8	7054.6
55°	5809.0	5948.4	6827.8	7719.0	8104.4	8012.9	8204.5	8418.5	9033.9	9082.9	7637.0
57.5°	5497.0	5645.0	6510.6	7943.7	8758.1	8898.7	9202.1	9358.6	10065.6	10190.1	8305.6
60°	5234.0	5350.0	6249.7	7991.5	9422.5	9982.5	10277.4	10439.2	11339.0	11419.9	9041.3
62.5°	4796.4	4929.5	5809.0	7657.2	9756.8	10850.2	11461.4	11389.0	12323.8	12380.2	9492.8
65°	4092.6	4104.3	4914.6	6817.2	9411.9	11413.5	12292.9	11989.5	12794.4	12832.7	9457.6
67.5°	3054.6	3167.5	3780.7	5358.6	7950.1	10932.2	12562.3	12005.4	12497.3	12390.9	8707.0
70°	1967.5	2053.8	2562.7	3715.8	5732.3	9123.3	11669.0	11182.4	10968.4	10732.1	7127.1
72.5°	908.2	1018.9	1522.5	2123.0	3399.6	6498.8	9472.5	9085.0	7894.6	7311.2	4530.2
75°	396.0	423.8	751.7	1120.0	1593.9	3436.8	6245.4	5639.7	3565.7	3256.9	1813.2
77.5°	241.7	259.8	393.9	600.5	626.0	1309.6	3364.4	2460.5	1102.0	972.0	491.9
80°	164.0	184.2	286.4	314.1	214.0	365.2	1262.8	656.9	222.5	212.9	105.4
82.5°	79.8	101.2	211.8	175.7	92.6	117.2	367.3	140.5	64.9	60.7	37.3
85°	11.7	20.3	119.3	115.0	41.5	27.7	64.9	35.2	22.4	21.3	17.1
87.5°	0.0	0.0	40.5	18.1	4.3	4.3	7.5	7.5	8.5	7.5	8.5
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°	2758.6	2758.6	2758.6	2758.6	2758.6	2758.6	2758.6	2758.6	2758.6	2758.6	2758.6
2.5°	2779.9	2785.2	2765.0	2736.3	2705.4	2674.5	2630.8	2591.5	2568.0	2581.9	2547.8
5°	2830.0	2825.7	2772.4	2685.1	2569.1	2429.6	2291.2	2173.1	2134.7	2077.2	2070.8
7.5°	2899.2	2887.4	2774.5	2574.4	2312.5	2050.6	1795.0	1625.8	1528.9	1446.9	1449.0
10°	2996.1	2962.0	2750.1	2379.6	1948.3	1553.4	1227.6	1004.0	907.1	876.2	851.8
12.5°	3096.1	3030.1	2681.9	2116.6	1517.2	1061.5	746.4	610.1	550.4	531.3	529.2
15°	3185.5	3081.2	2562.7	1800.4	1103.1	678.2	508.9	464.2	456.7	457.8	456.7
17.5°	3273.9	3121.7	2397.7	1465.0	749.5	486.6	437.6	427.0	430.2	434.4	433.4
20°	3347.3	3130.2	2186.9	1117.9	530.3	427.0	411.0	408.8	412.0	415.2	415.2
22.5°	3427.2	3136.6	1936.7	774.1	433.4	397.1	388.6	388.6	392.8	397.1	398.2
25°	3486.9	3101.4	1637.5	555.7	382.2	368.4	364.2	365.2	369.5	371.6	370.5
27.5°	3496.5	3002.5	1320.2	425.9	347.1	333.3	329.0	333.3	327.9	331.1	329.0
30°	3505.0	2876.8	998.7	358.8	315.1	293.8	287.5	281.1	276.9	271.5	270.5
32.5°	3531.6	2728.8	729.3	322.6	285.4	261.9	247.0	228.9	215.0	210.8	209.7
35°	3543.3	2551.0	535.5	293.8	258.7	233.1	206.5	181.0	160.8	153.3	158.6
37.5°	3588.0	2378.5	415.2	272.6	235.3	203.4	169.3	137.3	118.2	114.0	116.1
40°	3679.5	2191.1	348.2	254.5	215.0	175.7	134.1	103.3	90.5	86.2	85.2
42.5°	3826.5	2004.8	309.8	237.4	194.9	148.0	105.4	80.9	70.3	67.1	67.1
45°	4005.3	1826.0	283.2	219.3	173.6	119.3	83.0	64.9	58.5	56.4	56.4
47.5°	4240.7	1669.5	260.9	201.3	150.1	94.8	67.1	56.4	52.1	53.2	54.3
50°	4479.2	1553.4	236.3	181.0	123.5	77.7	57.5	50.0	48.9	50.0	50.0
52.5°	4659.1	1485.2	203.4	153.3	96.9	64.9	51.1	46.8	45.8	43.6	43.6
55°	4901.9	1470.3	161.8	124.6	76.7	54.3	45.8	42.6	39.4	37.3	36.2
57.5°	5213.8	1487.4	124.6	96.9	59.6	44.7	40.5	35.2	30.9	26.6	26.6
60°	5407.5	1449.0	96.9	74.5	43.6	36.2	30.9	25.6	20.3	17.1	16.0
62.5°	5345.8	1287.2	76.7	55.3	30.9	26.6	20.3	17.1	11.7	8.5	7.5
65°	5027.5	1039.1	61.7	38.3	22.4	16.0	10.7	10.7	5.3	1.1	0.0
67.5°	4400.4	769.8	48.9	25.6	12.8	7.5	5.3	3.2	0.0	0.0	0.0
70°	3581.7	555.7	38.3	16.0	7.5	5.3	2.1	1.1	0.0	0.0	0.0
72.5°	2274.1	318.3	29.8	9.6	5.3	2.1	0.0	0.0	0.0	0.0	0.0
75°	879.4	124.6	20.3	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	249.1	58.5	11.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	64.9	25.6	6.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	30.9	10.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.1	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	1.1	0.0	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)