

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: P454853

Luminaire Tested: **GALN-SA6A-727-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454853
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-SA6A-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 17756 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

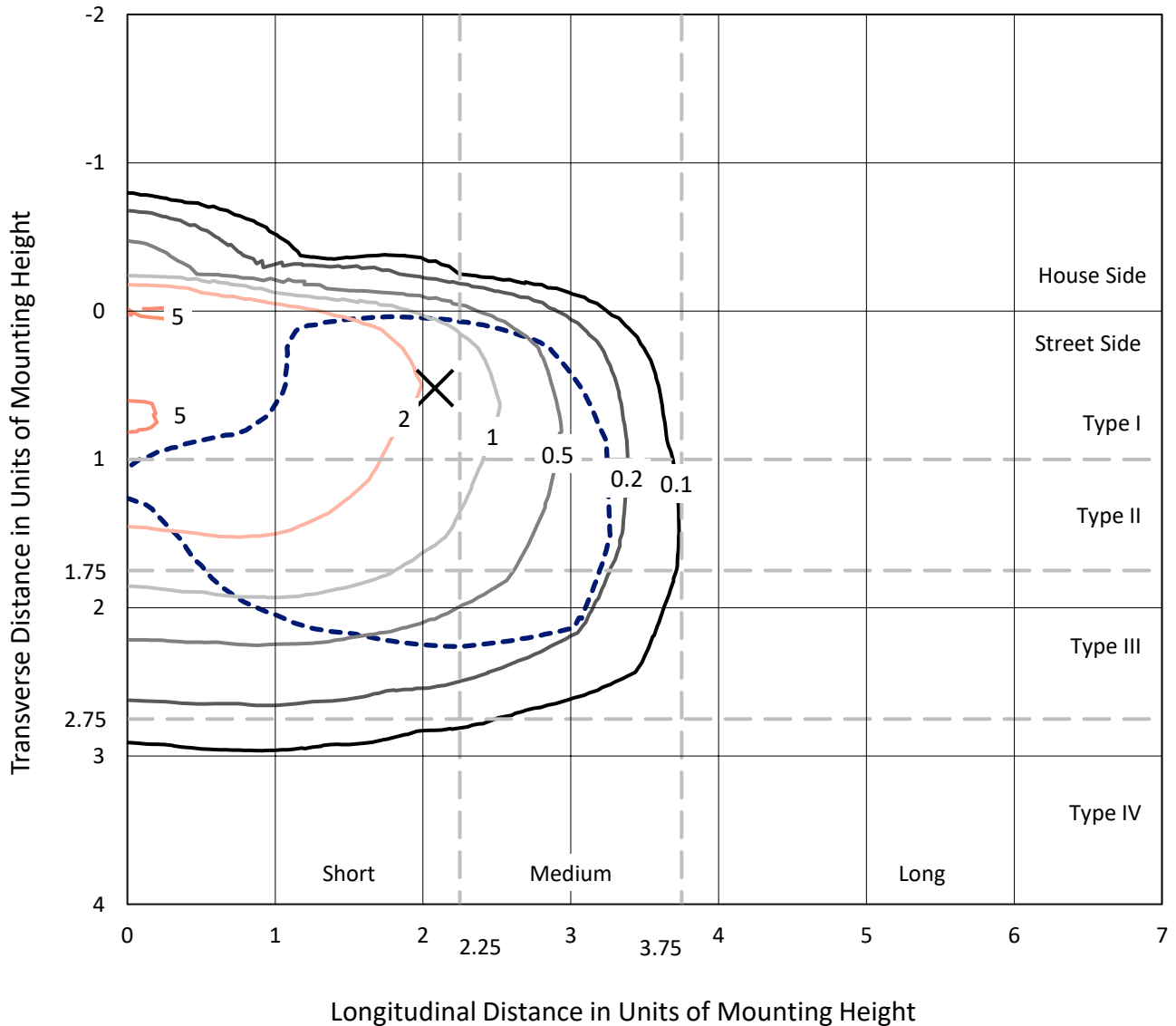
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

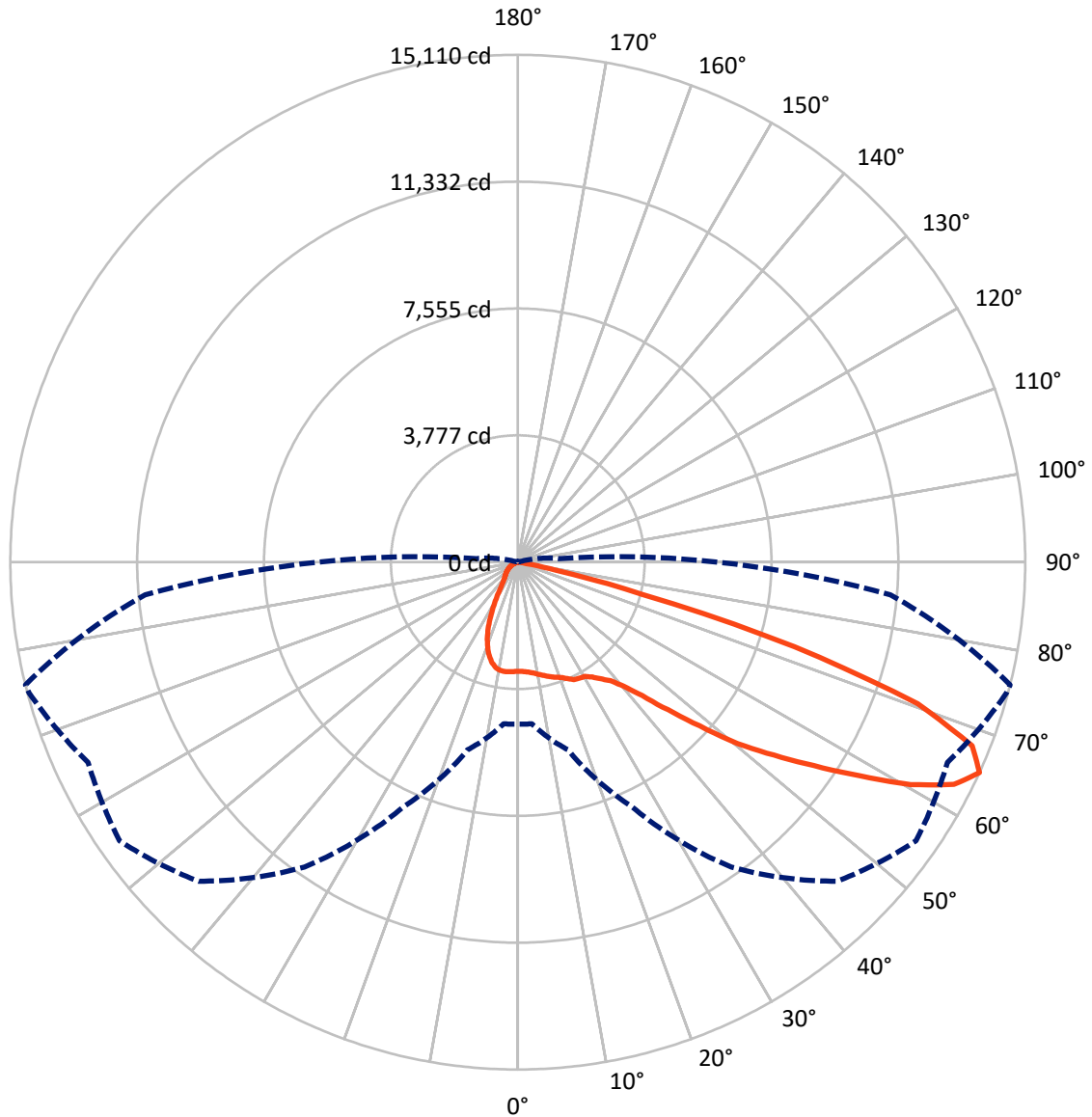
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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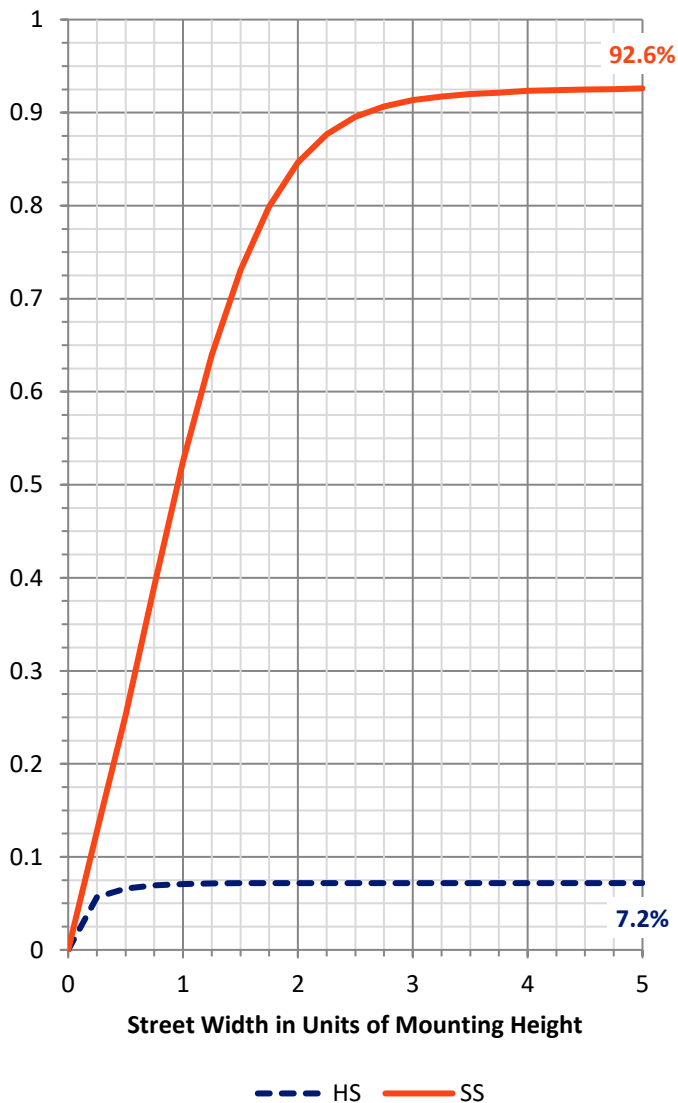
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1282.3	0.0	1282.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	16473.7	0.0	16473.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	17756.0	0.0	17756.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.6	1.5
10°-20°	595.8	3.4
20°-30°	960.0	5.4
30°-40°	1669.2	9.4
40°-50°	2758.3	15.5
50°-60°	4261.0	24.0
60°-70°	5203.3	29.3
70°-80°	1974.8	11.1
80°-90°	65.9	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°	17756.0	100.0
0°-180°	17756.0	100.0

Coefficient of Utilization



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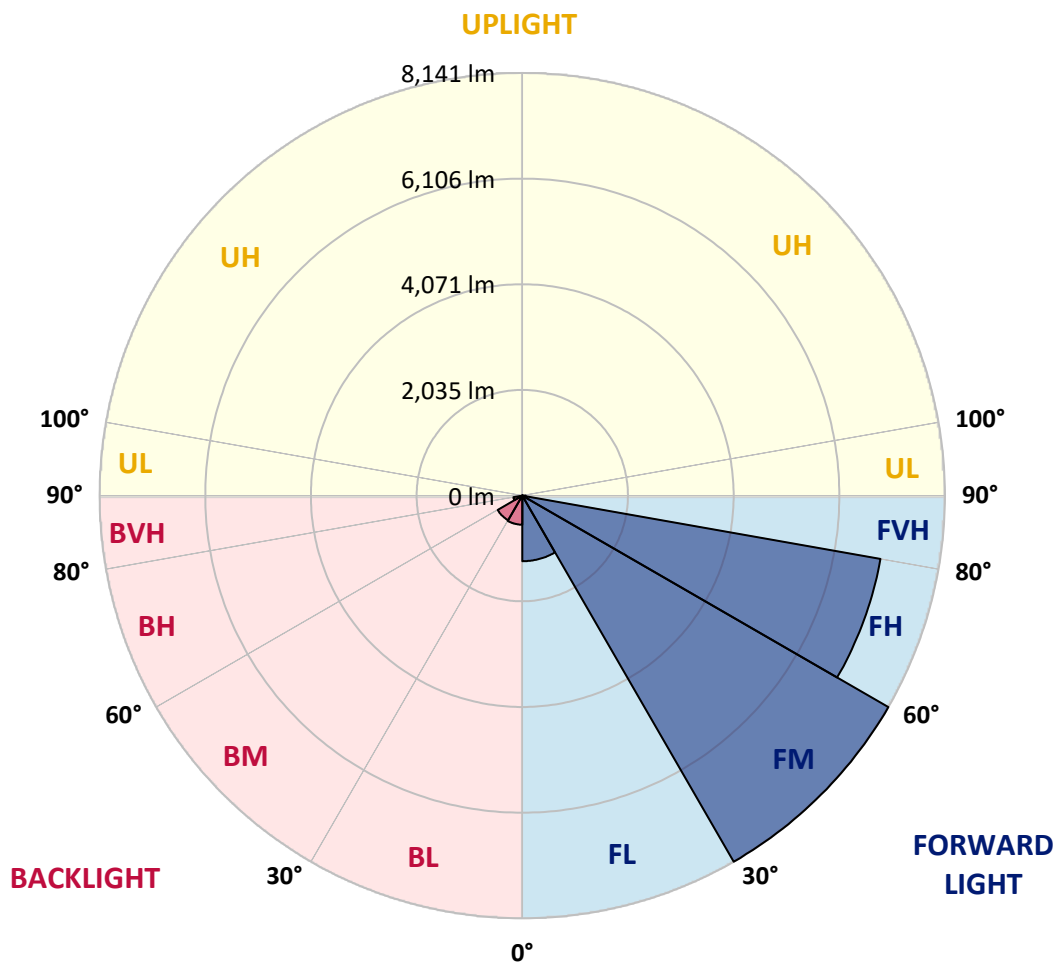
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1263.1	7.1			
FM (30°-60°)	8141.4	45.9			
FH (60°-80°)	7004.1	39.4			G3/7500
FVH (80°-90°)	65.0	0.4			G1/100
BL (0°-30°)	560.2	3.2	B2/1000		
BM (30°-60°)	547.2	3.1	B1/1000		
BH (60°-80°)	174.0	1.0	B1/500		G1/500
BVH (80°-90°)	0.9	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3248.1	3248.1	3248.1	3248.1	3248.1	3248.1	3248.1	3248.1	3248.1	3248.1	3248.1
2.5°	3104.0	3105.2	3112.7	3131.6	3160.4	3184.2	3204.3	3236.9	3259.4	3261.9	3269.5
5°	2889.6	2874.6	2889.6	2938.5	2982.4	3048.8	3130.3	3211.8	3284.5	3289.5	3324.6
7.5°	2648.9	2661.4	2685.3	2735.4	2818.1	2919.7	3037.5	3183.0	3320.8	3333.4	3402.3
10°	2404.5	2432.0	2470.9	2547.4	2662.7	2794.3	2954.8	3162.9	3378.5	3396.1	3515.2
12.5°	2178.8	2191.3	2239.0	2341.8	2484.7	2670.2	2892.1	3151.6	3442.5	3463.8	3635.5
15°	2005.8	2022.1	2063.5	2156.2	2315.4	2553.6	2840.7	3147.8	3505.1	3535.2	3755.9
17.5°	1973.2	1983.2	2000.8	2063.5	2202.6	2460.9	2794.3	3146.6	3565.3	3601.7	3867.4
20°	2107.3	2098.6	2081.0	2074.7	2151.2	2389.4	2760.5	3156.6	3623.0	3664.3	3985.3
22.5°	2443.3	2454.6	2351.8	2230.2	2205.1	2378.1	2755.5	3204.3	3714.5	3763.4	4116.9
25°	3156.6	3070.1	2909.7	2618.8	2399.4	2447.1	2811.9	3317.1	3821.0	3875.0	4236.0
27.5°	3945.2	3918.8	3669.4	3190.5	2781.8	2592.5	2912.2	3403.6	3856.1	3911.3	4303.7
30°	4719.9	4751.2	4465.4	3936.4	3337.1	2862.0	3006.2	3436.2	3887.5	3945.2	4390.2
32.5°	5438.2	5475.8	5225.1	4701.1	3991.5	3328.4	3167.9	3562.8	4019.1	4078.0	4534.4
35°	6003.6	6008.6	5819.3	5401.9	4706.1	3895.0	3517.7	3784.7	4197.1	4266.1	4687.3
37.5°	6522.6	6515.1	6293.2	5933.4	5301.6	4457.9	3957.7	4040.4	4400.2	4471.7	4907.9
40°	6907.5	6912.5	6841.0	6502.5	5856.9	4978.1	4306.2	4279.9	4741.2	4852.8	5228.9
42.5°	7164.5	7210.8	7245.9	7074.2	6555.2	5618.7	4841.5	4792.6	5332.9	5425.7	5682.7
45°	7372.6	7455.3	7630.8	7622.0	7225.9	6404.8	5576.1	5475.8	6171.6	6270.6	6260.6
47.5°	7524.2	7608.2	7899.1	8074.6	7856.5	7167.0	6500.0	6413.5	7173.2	7281.0	6898.7
50°	7602.0	7702.3	8073.3	8413.1	8349.1	7901.6	7553.1	7558.1	8383.0	8487.0	7638.3
52.5°	7420.2	7550.6	8166.1	8777.9	8902.0	8604.9	8539.7	8705.2	9459.8	9548.9	8306.5
55°	6839.8	7004.0	8039.5	9088.8	9542.6	9434.8	9660.4	9912.4	10637.0	10694.7	8992.2
57.5°	6472.5	6646.7	7665.9	9353.3	10312.3	10477.8	10835.1	11019.4	11851.8	11998.4	9779.5
60°	6162.8	6299.5	7358.8	9409.7	11094.6	11754.0	12101.2	12291.8	13351.1	13446.4	10645.8
62.5°	5647.6	5804.3	6839.8	9016.1	11488.2	12775.7	13495.3	13410.0	14510.7	14577.1	11177.3
65°	4818.9	4832.7	5786.7	8027.0	11082.0	13438.8	14474.3	14117.1	15064.8	15109.9	11135.9
67.5°	3596.6	3729.5	4451.6	6309.5	9360.8	12872.2	14791.5	14135.9	14715.0	14589.7	10252.1
70°	2316.7	2418.2	3017.5	4375.1	6749.5	10742.3	13739.7	13166.8	12914.8	12636.5	8391.8
72.5°	1069.3	1199.7	1792.7	2499.7	4002.8	7652.1	11153.5	10697.2	9295.6	8608.6	5334.2
75°	466.3	498.9	885.1	1318.8	1876.7	4046.7	7353.8	6640.4	4198.4	3834.8	2134.9
77.5°	284.6	305.9	463.8	707.0	737.1	1542.0	3961.5	2897.1	1297.5	1144.6	579.2
80°	193.1	216.9	337.2	369.8	252.0	430.0	1486.8	773.5	262.0	250.7	124.1
82.5°	94.0	119.1	249.5	206.8	109.1	137.9	432.5	165.5	76.5	71.5	43.9
85°	13.8	23.8	140.4	135.4	48.9	32.6	76.5	41.4	26.3	25.1	20.1
87.5°	0.0	0.0	47.6	21.3	5.0	5.0	8.8	8.8	10.0	8.8	10.0
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°	3248.1	3248.1	3248.1	3248.1	3248.1	3248.1	3248.1	3248.1	3248.1	3248.1	3248.1
2.5°	3273.2	3279.5	3255.7	3221.8	3185.5	3149.1	3097.7	3051.3	3023.7	3040.0	2999.9
5°	3332.1	3327.1	3264.4	3161.6	3025.0	2860.8	2697.8	2558.6	2513.5	2445.8	2438.3
7.5°	3413.6	3399.8	3266.9	3031.3	2722.9	2414.5	2113.6	1914.3	1800.2	1703.7	1706.2
10°	3527.7	3487.6	3238.1	2801.8	2294.1	1829.0	1445.4	1182.2	1068.1	1031.7	1002.9
12.5°	3645.5	3567.8	3157.9	2492.2	1786.4	1249.9	878.8	718.3	648.1	625.6	623.1
15°	3750.8	3628.0	3017.5	2119.9	1298.8	798.6	599.2	546.6	537.8	539.1	537.8
17.5°	3854.9	3675.6	2823.2	1725.0	882.6	572.9	515.2	502.7	506.5	511.5	510.2
20°	3941.4	3685.7	2574.9	1316.3	624.3	502.7	483.9	481.4	485.2	488.9	488.9
22.5°	4035.4	3693.2	2280.3	911.4	510.2	467.6	457.6	457.6	462.6	467.6	468.9
25°	4105.6	3651.8	1928.1	654.4	450.1	433.8	428.7	430.0	435.0	437.5	436.3
27.5°	4116.9	3535.2	1554.5	501.4	408.7	392.4	387.4	392.4	386.1	389.9	387.4
30°	4126.9	3387.3	1175.9	422.5	371.1	346.0	338.5	331.0	325.9	319.7	318.4
32.5°	4158.3	3213.0	858.7	379.8	336.0	308.4	290.8	269.5	253.2	248.2	247.0
35°	4172.1	3003.7	630.6	346.0	304.6	274.5	243.2	213.1	189.3	180.5	186.8
37.5°	4224.7	2800.6	488.9	320.9	277.1	239.4	199.3	161.7	139.2	134.1	136.6
40°	4332.5	2580.0	409.9	299.6	253.2	206.8	158.0	121.6	106.6	101.5	100.3
42.5°	4505.5	2360.6	364.8	279.6	229.4	174.3	124.1	95.3	82.7	79.0	79.0
45°	4716.1	2150.0	333.5	258.2	204.3	140.4	97.8	76.5	68.9	66.4	66.4
47.5°	4993.2	1965.7	307.1	236.9	176.8	111.6	79.0	66.4	61.4	62.7	63.9
50°	5274.0	1829.0	278.3	213.1	145.4	91.5	67.7	58.9	57.7	58.9	58.9
52.5°	5485.9	1748.8	239.4	180.5	114.1	76.5	60.2	55.2	53.9	51.4	51.4
55°	5771.7	1731.3	190.6	146.7	90.3	63.9	53.9	50.1	46.4	43.9	42.6
57.5°	6139.0	1751.3	146.7	114.1	70.2	52.7	47.6	41.4	36.4	31.3	31.3
60°	6367.2	1706.2	114.1	87.8	51.4	42.6	36.4	30.1	23.8	20.1	18.8
62.5°	6294.4	1515.6	90.3	65.2	36.4	31.3	23.8	20.1	13.8	10.0	8.8
65°	5919.6	1223.5	72.7	45.1	26.3	18.8	12.5	12.5	6.3	1.3	0.0
67.5°	5181.2	906.4	57.7	30.1	15.0	8.8	6.3	3.8	0.0	0.0	0.0
70°	4217.2	654.4	45.1	18.8	8.8	6.3	2.5	1.3	0.0	0.0	0.0
72.5°	2677.7	374.8	35.1	11.3	6.3	2.5	0.0	0.0	0.0	0.0	0.0
75°	1035.5	146.7	23.8	7.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	293.3	68.9	13.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	76.5	30.1	7.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.4	12.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.3	5.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.0	1.3	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)