

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: P455230

Luminaire Tested: **GALN-SA6B-827-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455230
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-SA6B-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA 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: 19420 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

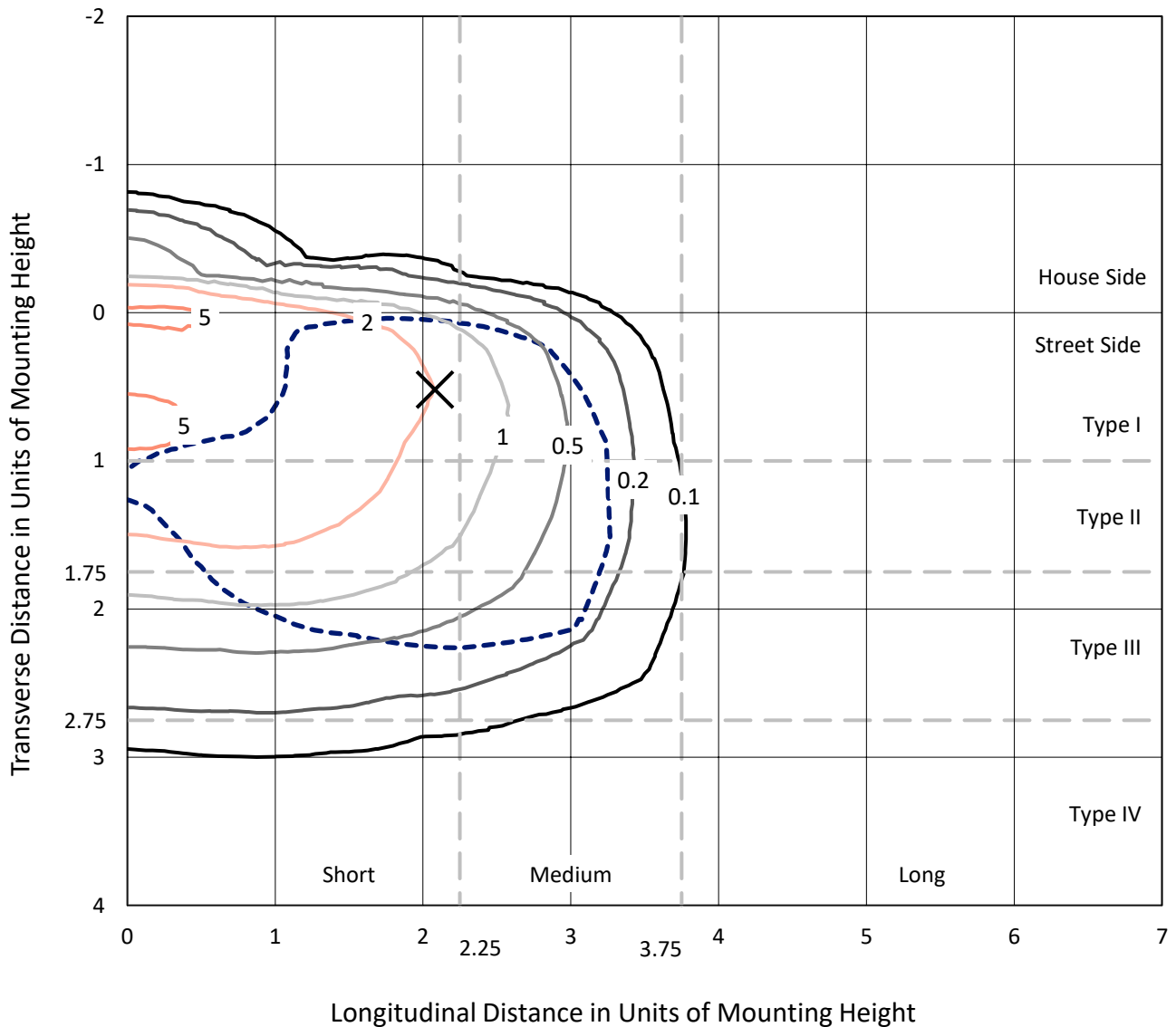
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

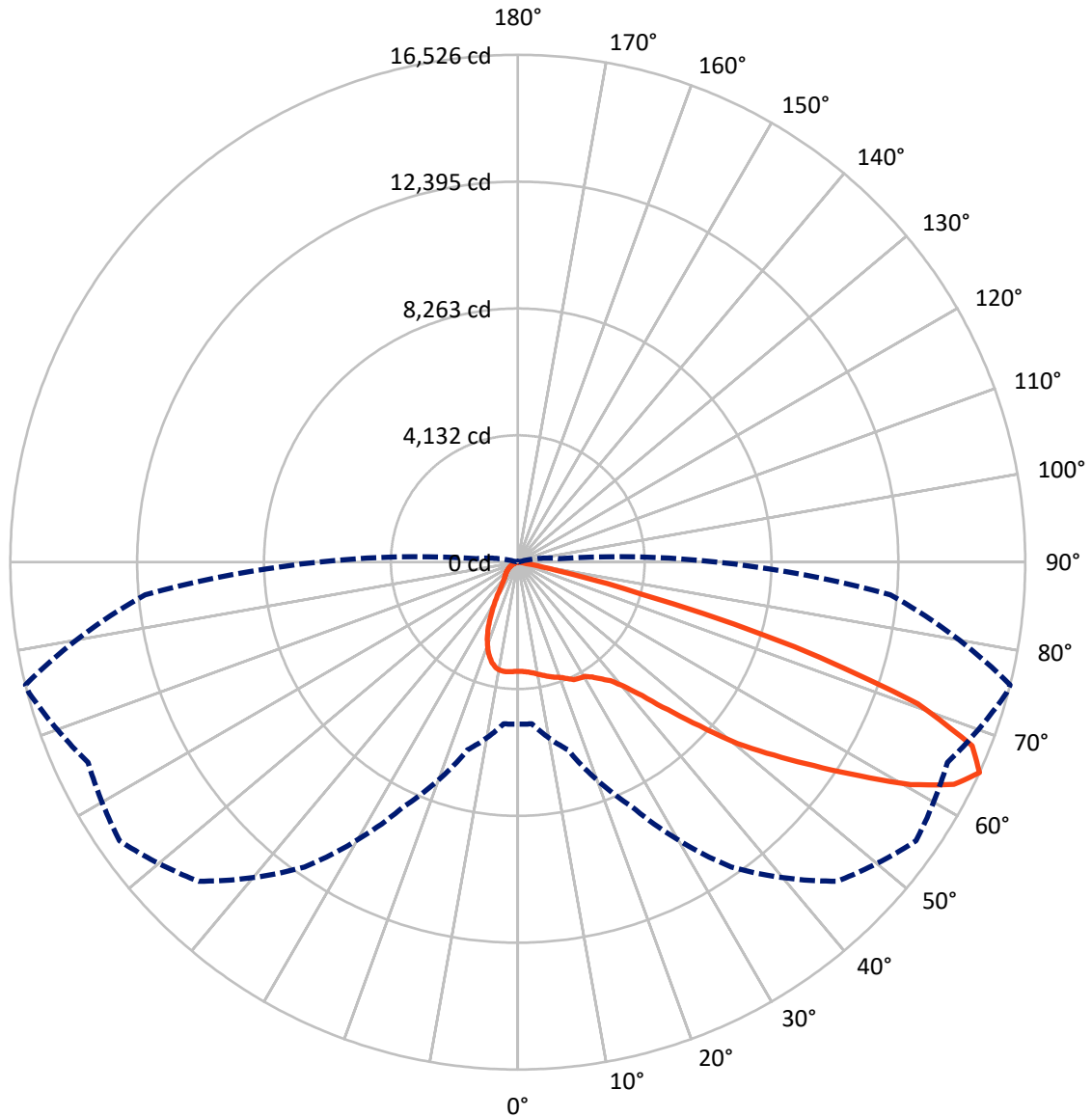
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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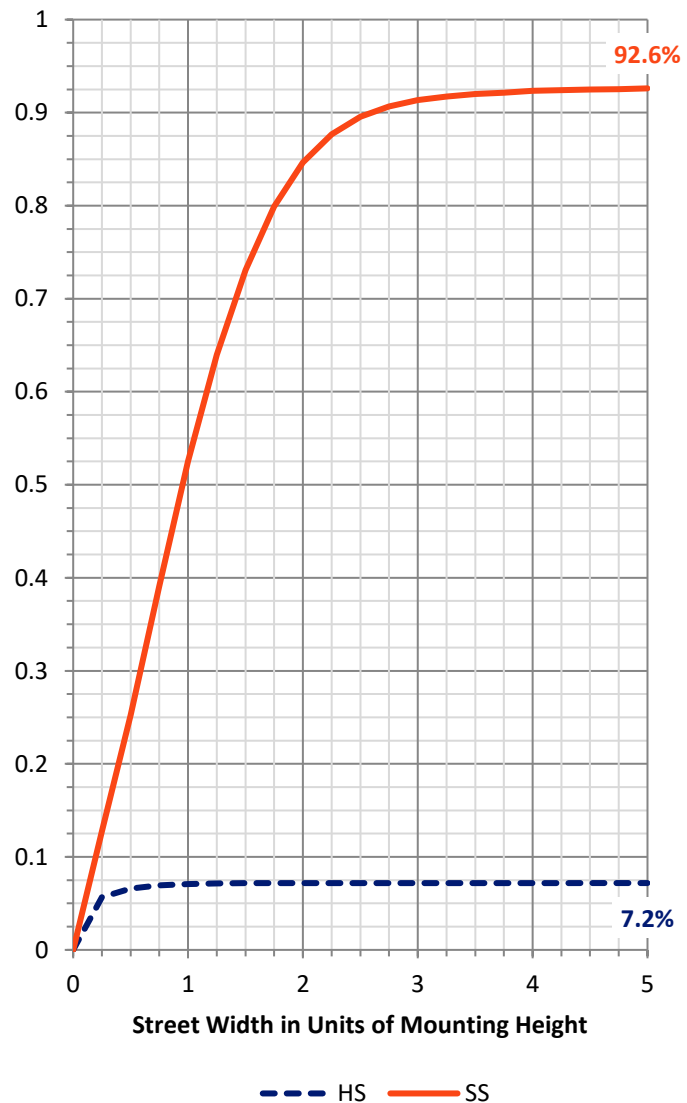
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1402.5	0.0	1402.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	18017.5	0.0	18017.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	19420.0	0.0	19420.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.6	1.5
10°-20°	651.6	3.4
20°-30°	1050.0	5.4
30°-40°	1825.7	9.4
40°-50°	3016.8	15.5
50°-60°	4660.4	24.0
60°-70°	5691.0	29.3
70°-80°	2159.9	11.1
80°-90°	72.1	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°	19420.0	100.0
0°-180°	19420.0	100.0



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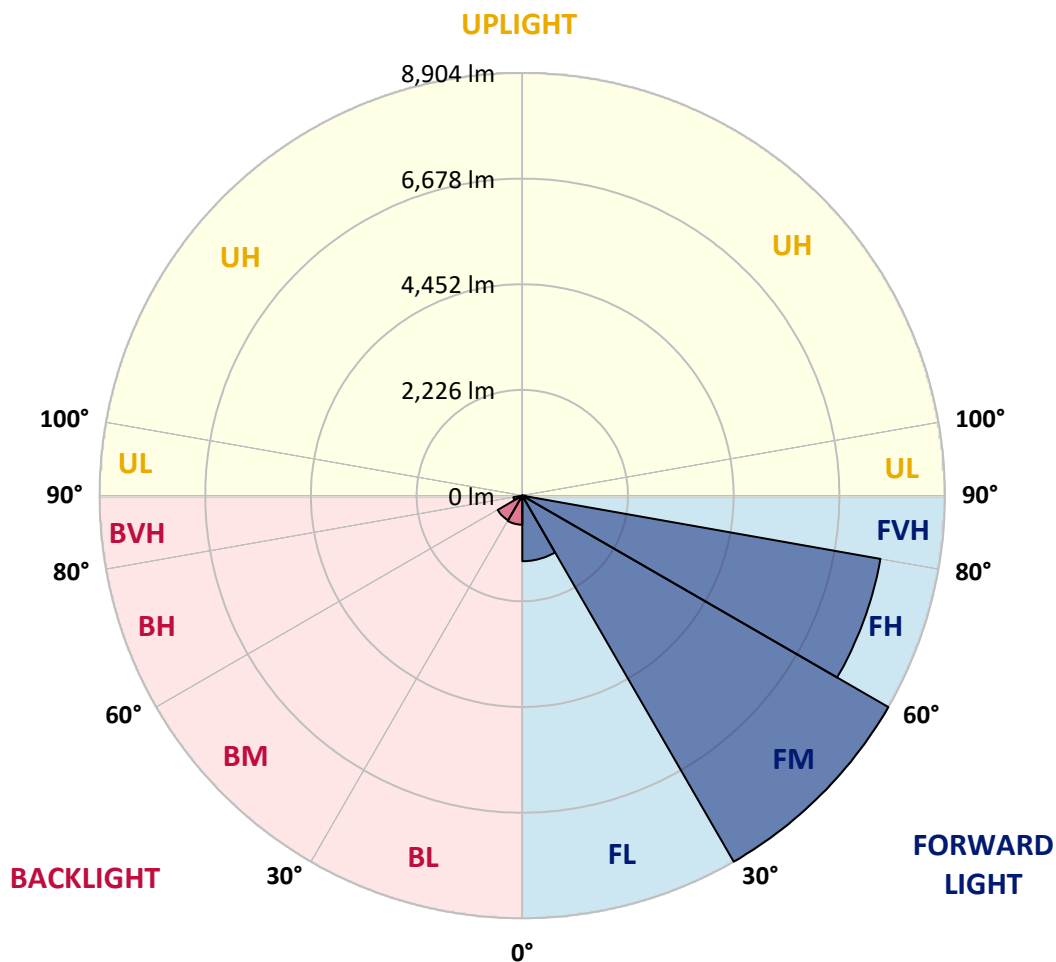
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1381.5	7.1			
FM	(30°-60°)	8904.4	45.9			
FH	(60°-80°)	7660.5	39.4			G4/12000
FVH	(80°-90°)	71.1	0.4			G1/100
BL	(0°-30°)	612.7	3.2	B2/1000		
BM	(30°-60°)	598.5	3.1	B1/1000		
BH	(60°-80°)	190.3	1.0	B1/500		G1/500
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3552.5	3552.5	3552.5	3552.5	3552.5	3552.5	3552.5	3552.5	3552.5	3552.5	3552.5
2.5°	3394.9	3396.2	3404.5	3425.0	3456.6	3482.6	3504.5	3540.2	3564.9	3567.6	3575.8
5°	3160.4	3143.9	3160.4	3213.9	3261.9	3334.5	3423.7	3512.8	3592.3	3597.8	3636.2
7.5°	2897.1	2910.9	2936.9	2991.8	3082.2	3193.3	3322.2	3481.2	3632.1	3645.8	3721.2
10°	2629.8	2659.9	2702.5	2786.1	2912.2	3056.2	3231.7	3459.3	3695.1	3714.3	3844.6
12.5°	2383.0	2396.7	2448.8	2561.2	2717.5	2920.5	3163.1	3447.0	3765.1	3788.4	3976.2
15°	2193.8	2211.6	2256.8	2358.3	2532.4	2792.9	3106.9	3442.8	3833.6	3866.5	4107.8
17.5°	2158.1	2169.1	2188.3	2256.8	2409.0	2691.5	3056.2	3441.5	3899.4	3939.2	4229.9
20°	2304.8	2295.2	2276.0	2269.2	2352.8	2613.3	3019.2	3452.4	3962.5	4007.7	4358.7
22.5°	2672.3	2684.6	2572.2	2439.2	2411.8	2601.0	3013.7	3504.5	4062.6	4116.1	4502.7
25°	3452.4	3357.8	3182.3	2864.2	2624.3	2676.4	3075.4	3627.9	4179.1	4238.1	4633.0
27.5°	4314.9	4286.1	4013.2	3489.5	3042.5	2835.4	3185.1	3722.6	4217.5	4277.9	4707.0
30°	5162.2	5196.5	4883.9	4305.3	3649.9	3130.2	3287.9	3758.2	4251.8	4314.9	4801.6
32.5°	5947.9	5989.0	5714.8	5141.7	4365.6	3640.3	3464.8	3896.7	4395.8	4460.2	4959.3
35°	6566.2	6571.7	6364.7	5908.1	5147.1	4260.0	3847.3	4139.4	4590.5	4665.9	5126.6
37.5°	7133.9	7125.6	6883.0	6489.4	5798.4	4875.7	4328.6	4419.1	4812.6	4890.7	5367.9
40°	7554.8	7560.3	7482.1	7111.9	6405.8	5444.7	4709.8	4681.0	5185.5	5307.6	5718.9
42.5°	7835.9	7886.6	7925.0	7737.2	7169.5	6145.3	5295.2	5241.7	5832.7	5934.2	6215.2
45°	8063.5	8154.0	8345.9	8336.3	7903.1	7005.0	6098.7	5989.0	6750.0	6858.3	6847.3
47.5°	8229.4	8321.2	8639.3	8831.3	8592.7	7838.6	7109.2	7014.6	7845.5	7963.4	7545.2
50°	8314.4	8424.1	8829.9	9201.5	9131.6	8642.1	8260.9	8266.4	9168.6	9282.4	8354.2
52.5°	8115.6	8258.2	8931.4	9600.5	9736.2	9411.3	9340.0	9521.0	10346.4	10443.7	9085.0
55°	7480.8	7660.4	8792.9	9940.5	10436.9	10318.9	10565.7	10841.3	11633.8	11696.9	9834.9
57.5°	7079.0	7269.6	8384.3	10229.8	11278.7	11459.7	11850.5	12052.0	12962.4	13122.9	10696.0
60°	6740.4	6889.8	8048.4	10291.5	12134.3	12855.5	13235.3	13443.7	14602.3	14706.5	11643.4
62.5°	6176.8	6348.2	7480.8	9861.0	12564.8	13972.9	14760.0	14666.7	15870.6	15943.2	12224.8
65°	5270.5	5285.6	6329.0	8779.2	12120.6	14698.3	15830.8	15440.0	16476.6	16526.0	12179.5
67.5°	3933.7	4079.0	4868.8	6900.8	10238.1	14078.5	16177.7	15460.6	16094.1	15956.9	11212.9
70°	2533.8	2644.9	3300.3	4785.2	7382.0	11749.0	15027.3	14400.7	14125.1	13820.8	9178.2
72.5°	1169.6	1312.1	1960.7	2734.0	4377.9	8369.2	12198.7	11699.7	10166.8	9415.4	5834.1
75°	510.1	545.7	968.0	1442.4	2052.5	4425.9	8042.9	7262.8	4591.8	4194.2	2335.0
77.5°	311.2	334.6	507.3	773.3	806.2	1686.5	4332.7	3168.6	1419.1	1251.8	633.5
80°	211.2	237.2	368.8	404.5	275.6	470.3	1626.1	846.0	286.6	274.2	135.7
82.5°	102.8	130.3	272.9	226.2	119.3	150.8	473.0	181.0	83.6	78.2	48.0
85°	15.1	26.1	153.6	148.1	53.5	35.6	83.6	45.2	28.8	27.4	21.9
87.5°	0.0	0.0	52.1	23.3	5.5	5.5	9.6	9.6	11.0	9.6	11.0
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°	3552.5	3552.5	3552.5	3552.5	3552.5	3552.5	3552.5	3552.5	3552.5	3552.5	3552.5
2.5°	3580.0	3586.8	3560.8	3523.7	3484.0	3444.2	3388.0	3337.3	3307.1	3324.9	3281.1
5°	3644.4	3638.9	3570.4	3457.9	3308.5	3128.9	2950.6	2798.4	2749.1	2675.0	2666.8
7.5°	3733.5	3718.4	3573.1	3315.3	2978.0	2640.8	2311.7	2093.7	1968.9	1863.3	1866.1
10°	3858.3	3814.4	3541.6	3064.4	2509.1	2000.4	1580.9	1293.0	1168.2	1128.4	1096.9
12.5°	3987.2	3902.2	3453.8	2725.8	1953.8	1367.0	961.1	785.6	708.9	684.2	681.4
15°	4102.4	3968.0	3300.3	2318.5	1420.5	873.4	655.4	597.8	588.2	589.6	588.2
17.5°	4216.2	4020.1	3087.7	1886.6	965.3	626.6	563.5	549.8	553.9	559.4	558.0
20°	4310.8	4031.1	2816.3	1439.7	682.8	549.8	529.2	526.5	530.6	534.7	534.7
22.5°	4413.6	4039.3	2494.0	996.8	558.0	511.4	500.5	500.5	505.9	511.4	512.8
25°	4490.4	3994.0	2108.8	715.7	492.2	474.4	468.9	470.3	475.8	478.5	477.1
27.5°	4502.7	3866.5	1700.2	548.4	447.0	429.2	423.7	429.2	422.3	426.4	423.7
30°	4513.7	3704.7	1286.1	462.1	405.8	378.4	370.2	362.0	356.5	349.6	348.3
32.5°	4548.0	3514.1	939.2	415.4	367.5	337.3	318.1	294.8	277.0	271.5	270.1
35°	4563.0	3285.2	689.7	378.4	333.2	300.3	266.0	233.1	207.0	197.4	204.3
37.5°	4620.6	3063.1	534.7	351.0	303.0	261.9	218.0	176.9	152.2	146.7	149.5
40°	4738.5	2821.7	448.4	327.7	277.0	226.2	172.8	133.0	116.5	111.1	109.7
42.5°	4927.8	2581.8	399.0	305.8	250.9	190.6	135.7	104.2	90.5	86.4	86.4
45°	5158.1	2351.4	364.7	282.4	223.5	153.6	106.9	83.6	75.4	72.7	72.7
47.5°	5461.1	2149.9	335.9	259.1	193.3	122.0	86.4	72.7	67.2	68.6	69.9
50°	5768.2	2000.4	304.4	233.1	159.0	100.1	74.0	64.4	63.1	64.4	64.4
52.5°	6000.0	1912.7	261.9	197.4	124.8	83.6	65.8	60.3	59.0	56.2	56.2
55°	6312.6	1893.5	208.4	160.4	98.7	69.9	59.0	54.8	50.7	48.0	46.6
57.5°	6714.3	1915.4	160.4	124.8	76.8	57.6	52.1	45.2	39.8	34.3	34.3
60°	6963.9	1866.1	124.8	96.0	56.2	46.6	39.8	32.9	26.1	21.9	20.6
62.5°	6884.3	1657.7	98.7	71.3	39.8	34.3	26.1	21.9	15.1	11.0	9.6
65°	6474.4	1338.2	79.5	49.4	28.8	20.6	13.7	13.7	6.9	1.4	0.0
67.5°	5666.8	991.3	63.1	32.9	16.5	9.6	6.9	4.1	0.0	0.0	0.0
70°	4612.4	715.7	49.4	20.6	9.6	6.9	2.7	1.4	0.0	0.0	0.0
72.5°	2928.7	410.0	38.4	12.3	6.9	2.7	0.0	0.0	0.0	0.0	0.0
75°	1132.5	160.4	26.1	8.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	320.8	75.4	15.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	83.6	32.9	8.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	39.8	13.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.3	5.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.0	1.4	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)