

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: P456158

Luminaire Tested: **GALN-SA7B-827-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456158
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-SA7B-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 22811 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

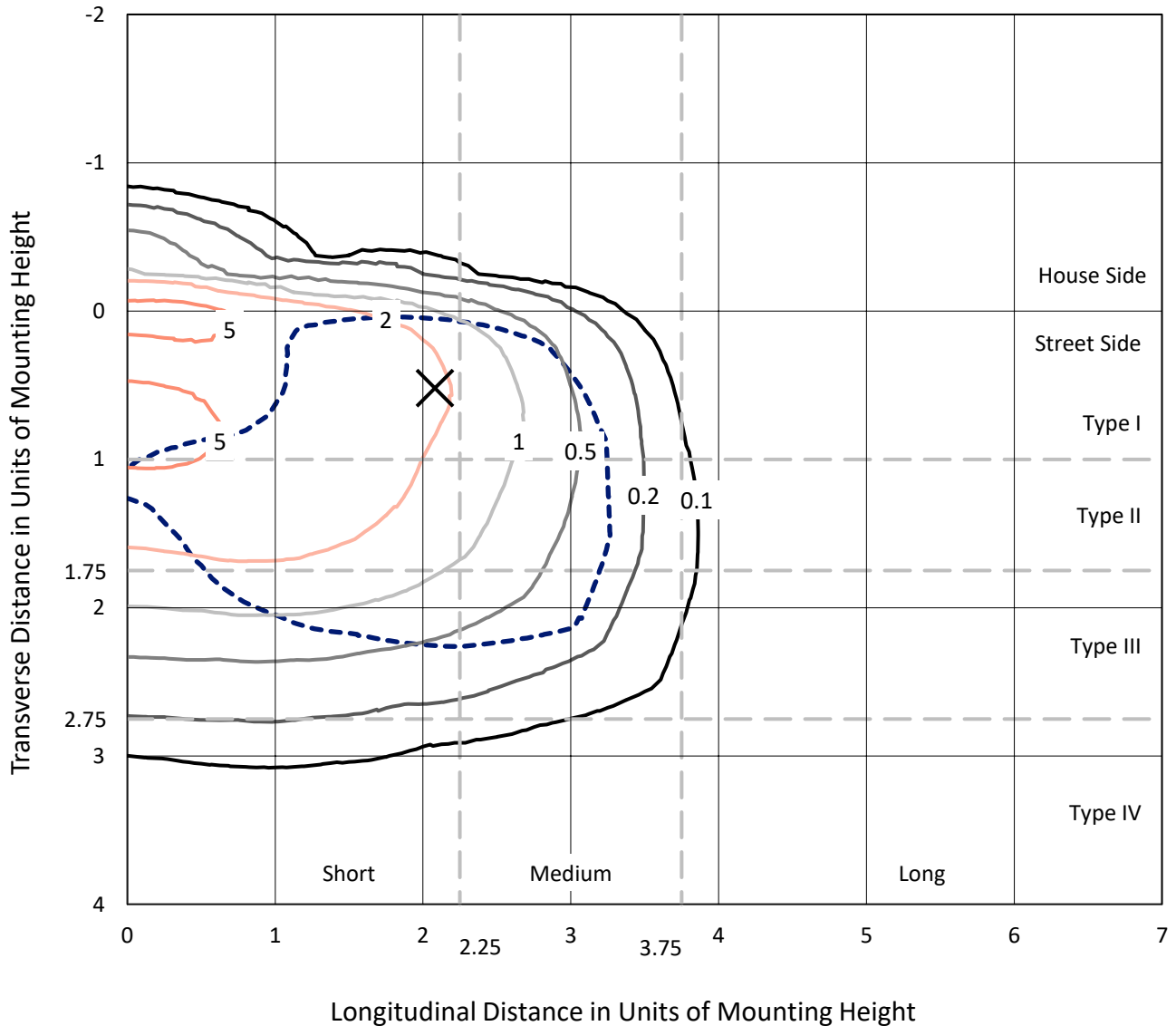
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

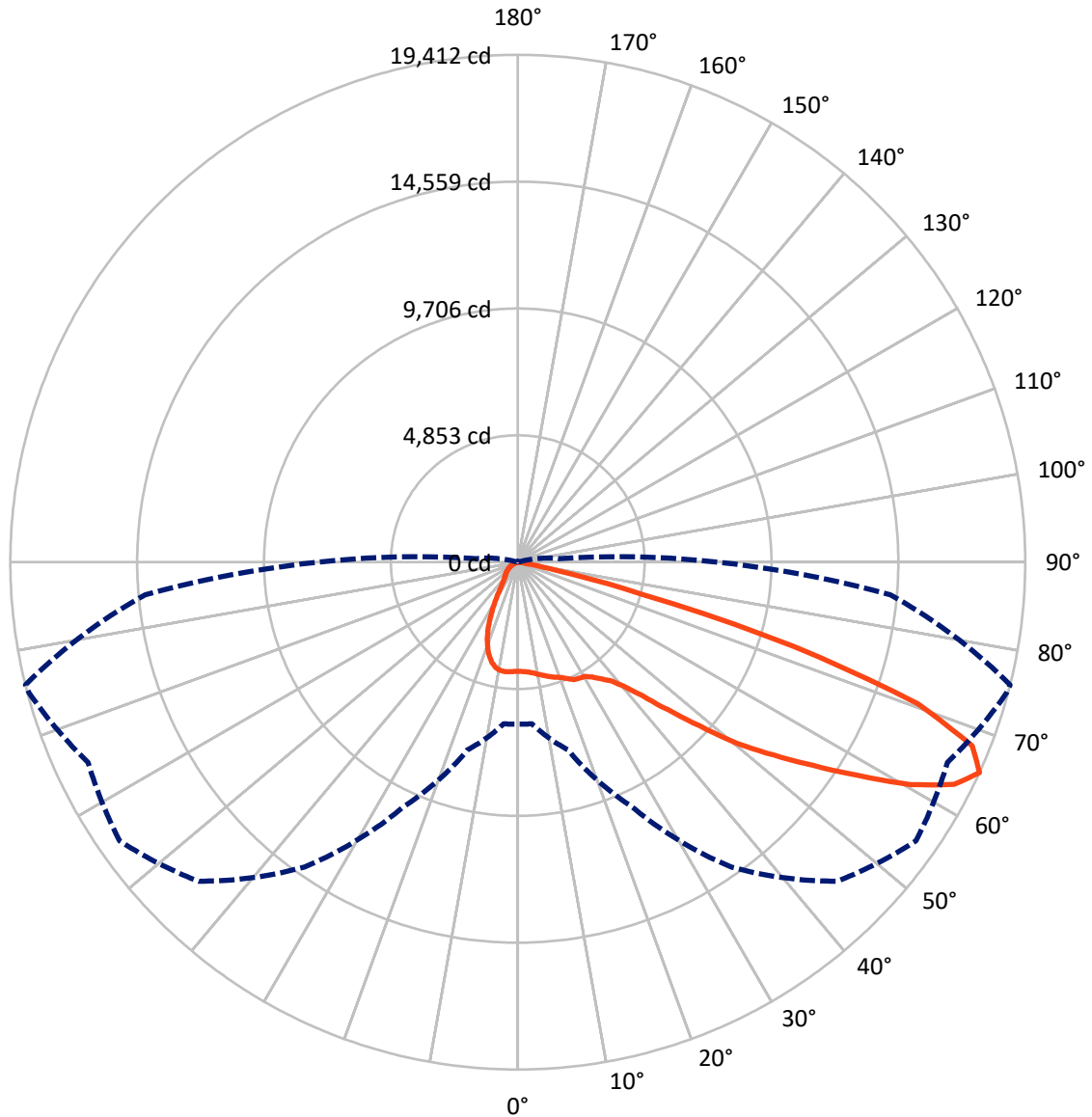
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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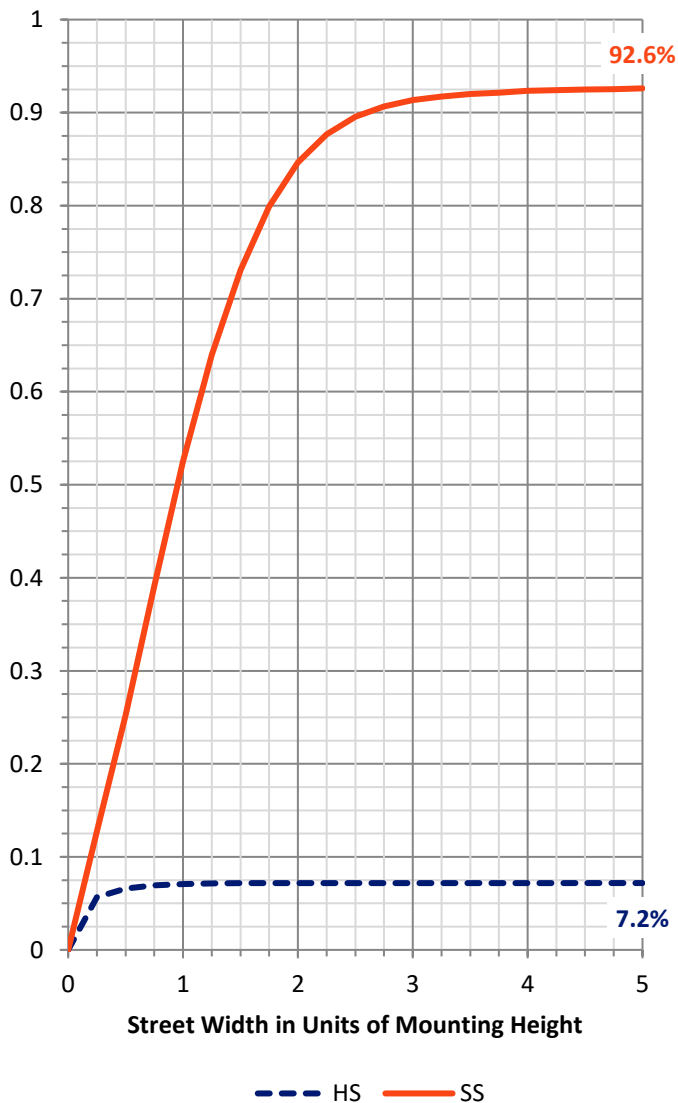
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1647.4	0.0	1647.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	21163.6	0.0	21163.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	22811.0	0.0	22811.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.7	1.5
10°-20°	765.4	3.4
20°-30°	1233.3	5.4
30°-40°	2144.5	9.4
40°-50°	3543.6	15.5
50°-60°	5474.1	24.0
60°-70°	6684.7	29.3
70°-80°	2537.0	11.1
80°-90°	84.7	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°	22811.0	100.0
0°-180°	22811.0	100.0

Coefficient of Utilization



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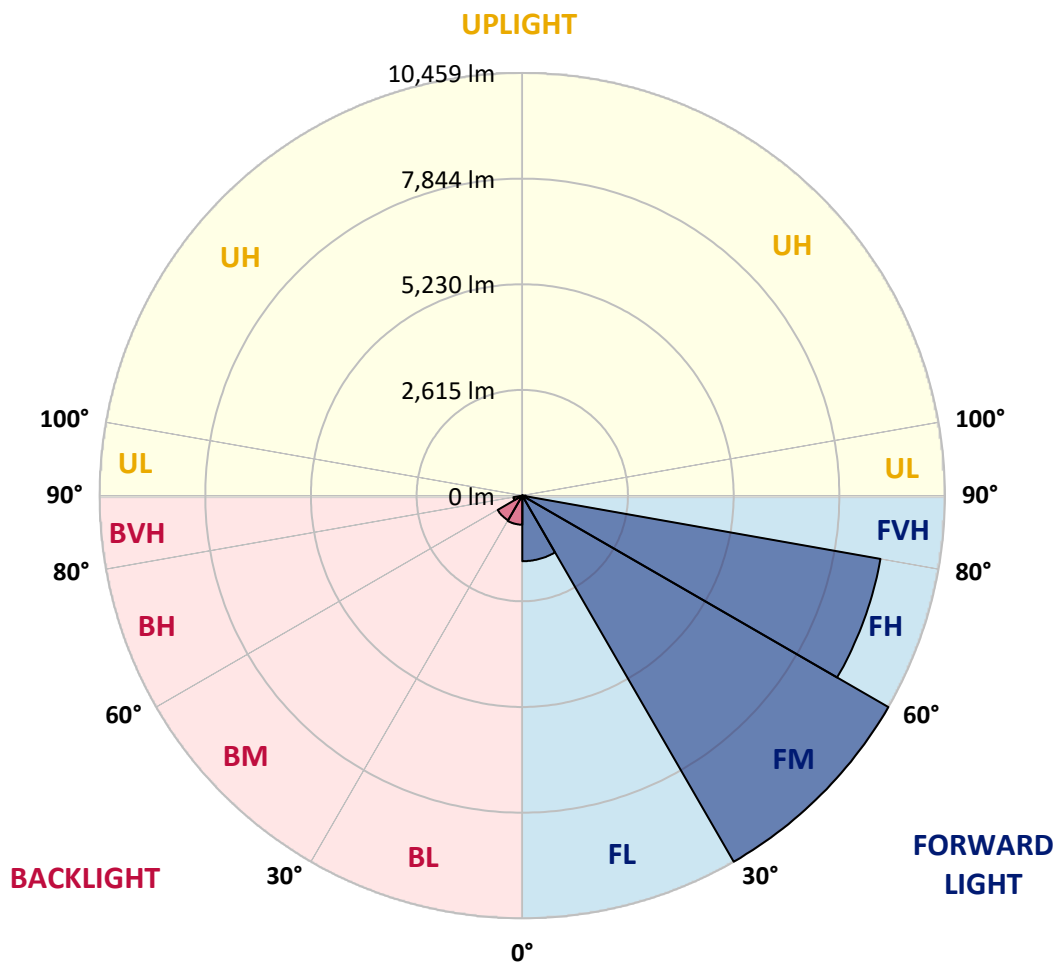
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1622.7	7.1			
FM (30°-60°)	10459.2	45.9			
FH (60°-80°)	8998.2	39.4			G4/12000
FVH (80°-90°)	83.5	0.4			G1/100
BL (0°-30°)	719.7	3.2	B2/1000		
BM (30°-60°)	703.0	3.1	B1/1000		
BH (60°-80°)	223.5	1.0	B1/500		G1/500
BVH (80°-90°)	1.2	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°	4172.9	4172.9	4172.9	4172.9	4172.9	4172.9	4172.9	4172.9	4172.9	4172.9	4172.9
2.5°	3987.6	3989.3	3998.9	4023.1	4060.1	4090.7	4116.5	4158.4	4187.4	4190.6	4200.2
5°	3712.3	3692.9	3712.3	3775.1	3831.4	3916.8	4021.5	4126.2	4219.6	4226.0	4271.1
7.5°	3403.0	3419.1	3449.7	3514.2	3620.5	3750.9	3902.3	4089.1	4266.3	4282.4	4371.0
10°	3089.0	3124.4	3174.3	3272.6	3420.7	3589.9	3796.0	4063.3	4340.4	4362.9	4515.9
12.5°	2799.1	2815.2	2876.4	3008.5	3192.1	3430.4	3715.5	4048.8	4422.5	4449.9	4670.5
15°	2576.8	2597.8	2650.9	2770.1	2974.6	3280.6	3649.4	4044.0	4503.0	4541.7	4825.1
17.5°	2535.0	2547.8	2570.4	2650.9	2829.7	3161.5	3589.9	4042.4	4580.3	4627.0	4968.5
20°	2707.3	2696.0	2673.5	2665.4	2763.7	3069.7	3546.4	4055.3	4654.4	4707.6	5119.8
22.5°	3138.9	3153.4	3021.3	2865.1	2832.9	3055.2	3539.9	4116.5	4772.0	4834.8	5289.0
25°	4055.3	3944.2	3738.0	3364.4	3082.5	3143.7	3612.4	4261.4	4908.9	4978.1	5442.0
27.5°	5068.3	5034.5	4714.0	4098.8	3573.7	3330.6	3741.2	4372.6	4954.0	5024.8	5528.9
30°	6063.6	6103.9	5736.7	5057.0	4287.2	3676.8	3862.0	4414.4	4994.2	5068.3	5640.0
32.5°	6986.4	7034.8	6712.7	6039.5	5127.9	4275.9	4069.8	4577.1	5163.3	5239.0	5825.3
35°	7712.8	7719.2	7476.0	6939.7	6045.9	5003.9	4519.1	4862.2	5392.0	5480.6	6021.7
37.5°	8379.5	8369.9	8084.8	7622.6	6810.9	5727.0	5084.4	5190.7	5652.9	5744.7	6305.2
40°	8874.0	8880.4	8788.6	8353.8	7524.4	6395.4	5532.1	5498.3	6091.0	6234.3	6717.5
42.5°	9204.1	9263.7	9308.8	9088.2	8421.4	7218.4	6219.8	6157.0	6851.2	6970.3	7300.5
45°	9471.5	9577.8	9803.2	9792.0	9283.0	8228.2	7163.6	7034.8	7928.6	8055.8	8042.9
47.5°	9666.3	9774.3	10147.9	10373.4	10093.1	9207.3	8350.6	8239.4	9215.4	9353.9	8862.7
50°	9766.2	9895.0	10371.8	10808.2	10726.1	10151.1	9703.4	9709.8	10769.6	10903.2	9812.9
52.5°	9532.7	9700.2	10490.9	11276.9	11436.3	11054.6	10970.9	11183.5	12153.0	12267.3	10671.3
55°	8787.0	8998.0	10328.3	11676.3	12259.3	12120.8	12410.7	12734.4	13665.3	13739.4	11552.3
57.5°	8315.1	8539.0	9848.3	12016.1	13248.1	13460.7	13919.7	14156.5	15225.9	15414.3	12563.7
60°	7917.3	8092.9	9453.8	12088.6	14253.1	15100.2	15546.4	15791.2	17152.0	17274.4	13676.5
62.5°	7255.4	7456.7	8787.0	11582.9	14758.8	16412.8	17337.3	17227.7	18641.8	18727.1	14359.4
65°	6190.8	6208.6	7434.2	10312.2	14237.0	17264.8	18595.1	18136.1	19353.6	19411.6	14306.3
67.5°	4620.6	4791.3	5719.0	8105.8	12025.8	16536.8	19002.5	18160.2	18904.3	18743.2	13170.8
70°	2976.2	3106.7	3876.5	5620.7	8671.0	13800.6	17651.3	16915.3	16591.6	16234.1	10780.8
72.5°	1373.8	1541.3	2303.0	3211.4	5142.4	9830.6	14328.8	13742.6	11942.0	11059.4	6852.8
75°	599.1	641.0	1137.0	1694.3	2410.9	5198.8	9447.3	8530.9	5393.6	4926.6	2742.7
77.5°	365.6	393.0	595.9	908.3	947.0	1980.9	5089.2	3721.9	1666.9	1470.4	744.1
80°	248.0	278.6	433.2	475.1	323.7	552.4	1910.1	993.7	336.6	322.1	159.4
82.5°	120.8	153.0	320.5	265.7	140.1	177.2	555.6	212.6	98.2	91.8	56.4
85°	17.7	30.6	180.4	173.9	62.8	41.9	98.2	53.1	33.8	32.2	25.8
87.5°	0.0	0.0	61.2	27.4	6.4	6.4	11.3	11.3	12.9	11.3	12.9
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°	4172.9	4172.9	4172.9	4172.9	4172.9	4172.9	4172.9	4172.9	4172.9	4172.9	4172.9
2.5°	4205.1	4213.1	4182.5	4139.0	4092.3	4045.6	3979.6	3920.0	3884.6	3905.5	3854.0
5°	4280.8	4274.3	4193.8	4061.7	3886.2	3675.2	3465.8	3287.1	3229.1	3142.1	3132.5
7.5°	4385.4	4367.7	4197.0	3894.2	3498.1	3101.9	2715.3	2459.3	2312.7	2188.7	2191.9
10°	4532.0	4480.5	4160.0	3599.5	2947.3	2349.8	1856.9	1518.7	1372.2	1325.5	1288.4
12.5°	4683.4	4583.5	4056.9	3201.7	2295.0	1605.7	1129.0	922.8	832.6	803.6	800.4
15°	4818.7	4660.8	3876.5	2723.4	1668.5	1025.9	769.8	702.2	690.9	692.5	690.9
17.5°	4952.4	4722.0	3626.9	2216.1	1133.8	736.0	661.9	645.8	650.7	657.1	655.5
20°	5063.5	4734.9	3308.0	1691.0	802.0	645.8	621.7	618.4	623.3	628.1	628.1
22.5°	5184.3	4744.6	2929.5	1170.8	655.5	600.7	587.8	587.8	594.3	600.7	602.3
25°	5274.5	4691.4	2477.0	840.7	578.2	557.2	550.8	552.4	558.9	562.1	560.5
27.5°	5289.0	4541.7	1997.0	644.2	525.0	504.1	497.7	504.1	496.0	500.9	497.7
30°	5301.8	4351.6	1510.7	542.7	476.7	444.5	434.8	425.2	418.7	410.7	409.1
32.5°	5342.1	4127.8	1103.2	488.0	431.6	396.2	373.6	346.3	325.3	318.9	317.3
35°	5359.8	3858.8	810.1	444.5	391.4	352.7	312.4	273.8	243.2	231.9	240.0
37.5°	5427.5	3597.9	628.1	412.3	355.9	307.6	256.1	207.8	178.8	172.3	175.5
40°	5566.0	3314.5	526.6	384.9	325.3	265.7	202.9	156.2	136.9	130.5	128.8
42.5°	5788.2	3032.6	468.7	359.1	294.7	223.9	159.4	122.4	106.3	101.5	101.5
45°	6058.8	2762.0	428.4	331.8	262.5	180.4	125.6	98.2	88.6	85.4	85.4
47.5°	6414.7	2525.3	394.6	304.4	227.1	143.3	101.5	85.4	78.9	80.5	82.1
50°	6775.5	2349.8	357.5	273.8	186.8	117.6	87.0	75.7	74.1	75.7	75.7
52.5°	7047.6	2246.7	307.6	231.9	146.6	98.2	77.3	70.9	69.3	66.0	66.0
55°	7414.8	2224.1	244.8	188.4	116.0	82.1	69.3	64.4	59.6	56.4	54.8
57.5°	7886.7	2249.9	188.4	146.6	90.2	67.6	61.2	53.1	46.7	40.3	40.3
60°	8179.8	2191.9	146.6	112.7	66.0	54.8	46.7	38.7	30.6	25.8	24.2
62.5°	8086.4	1947.1	116.0	83.7	46.7	40.3	30.6	25.8	17.7	12.9	11.3
65°	7604.9	1571.9	93.4	58.0	33.8	24.2	16.1	16.1	8.1	1.6	0.0
67.5°	6656.3	1164.4	74.1	38.7	19.3	11.3	8.1	4.8	0.0	0.0	0.0
70°	5417.8	840.7	58.0	24.2	11.3	8.1	3.2	1.6	0.0	0.0	0.0
72.5°	3440.1	481.5	45.1	14.5	8.1	3.2	0.0	0.0	0.0	0.0	0.0
75°	1330.3	188.4	30.6	9.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	376.9	88.6	17.7	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	98.2	38.7	9.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	46.7	16.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.4	6.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.9	1.6	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)