

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: P458016

Luminaire Tested: **GALN-SA9B-827-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27306 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

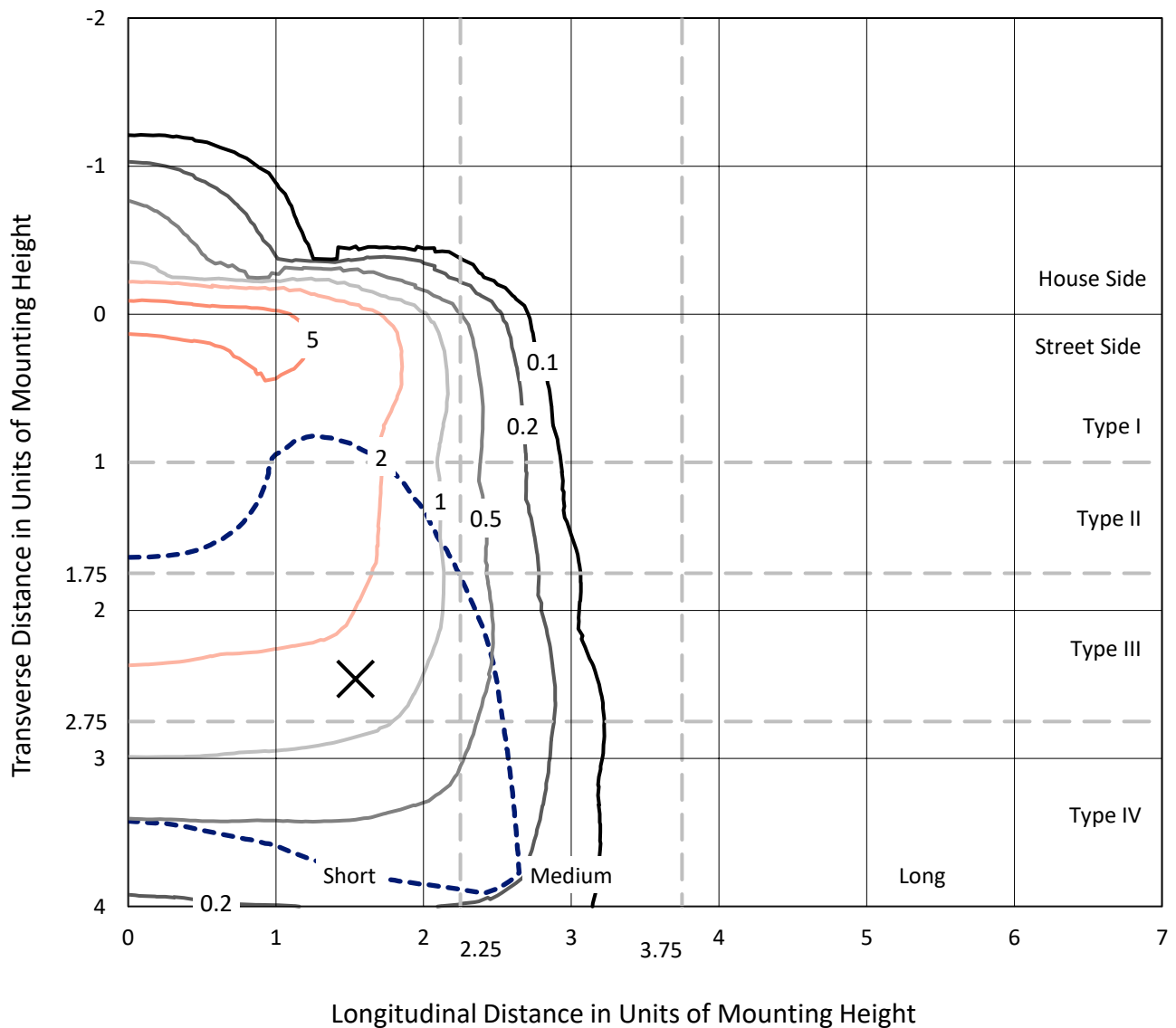
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

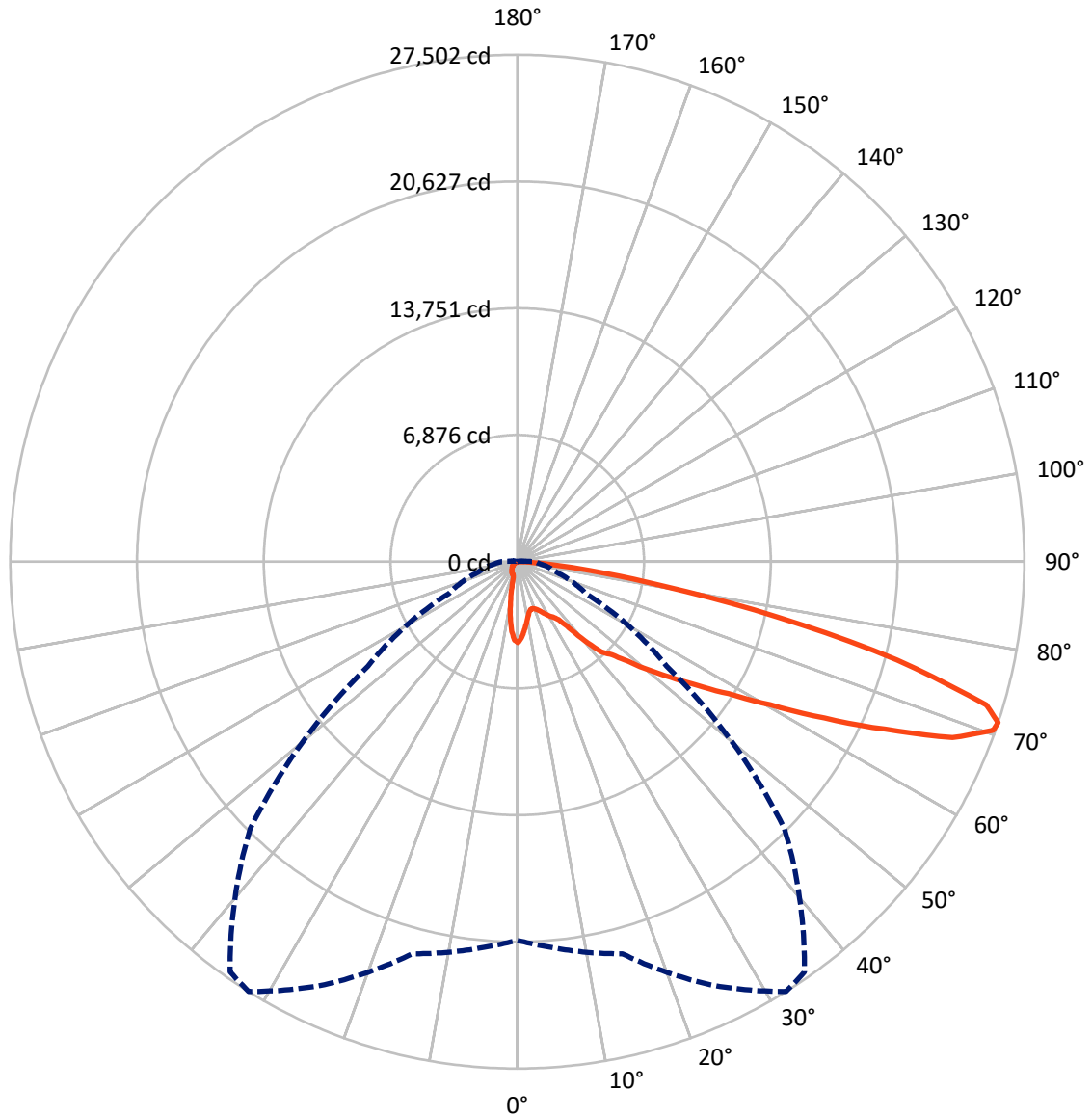
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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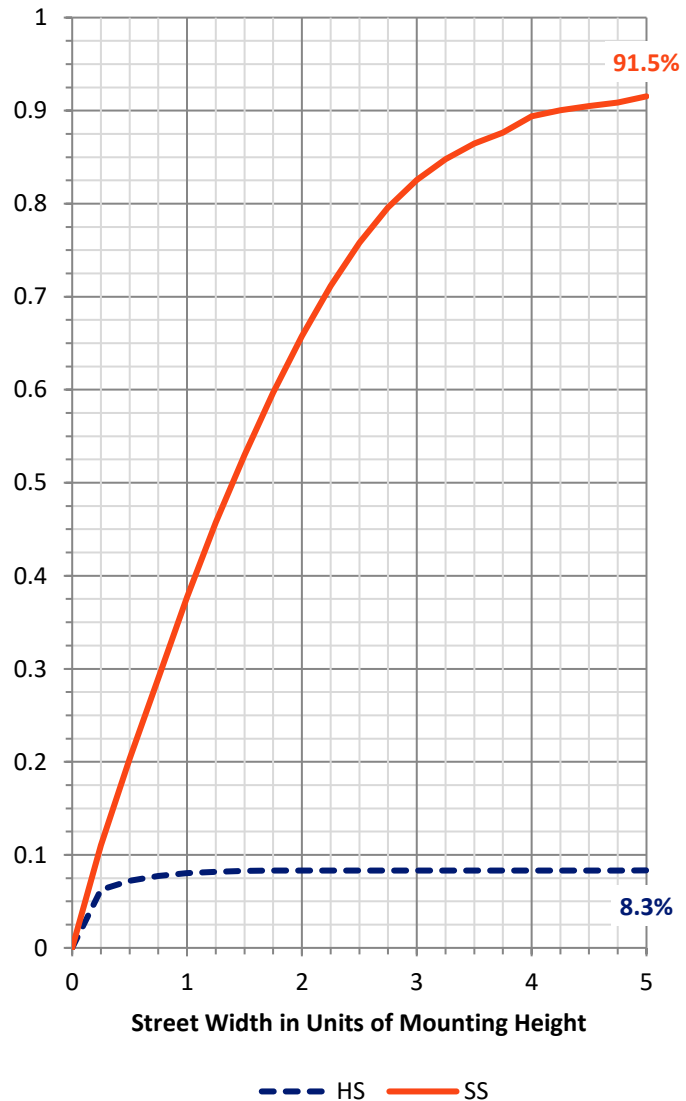
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2287.2	0.0	2287.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	25018.8	0.0	25018.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	27306.0	0.0	27306.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.1	1.3
10°-20°	775.0	2.8
20°-30°	1205.6	4.4
30°-40°	2008.5	7.4
40°-50°	3736.1	13.7
50°-60°	5998.5	22.0
60°-70°	8068.3	29.5
70°-80°	4787.0	17.5
80°-90°	370.0	1.4
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°	27306.0	100.0
0°-180°	27306.0	100.0

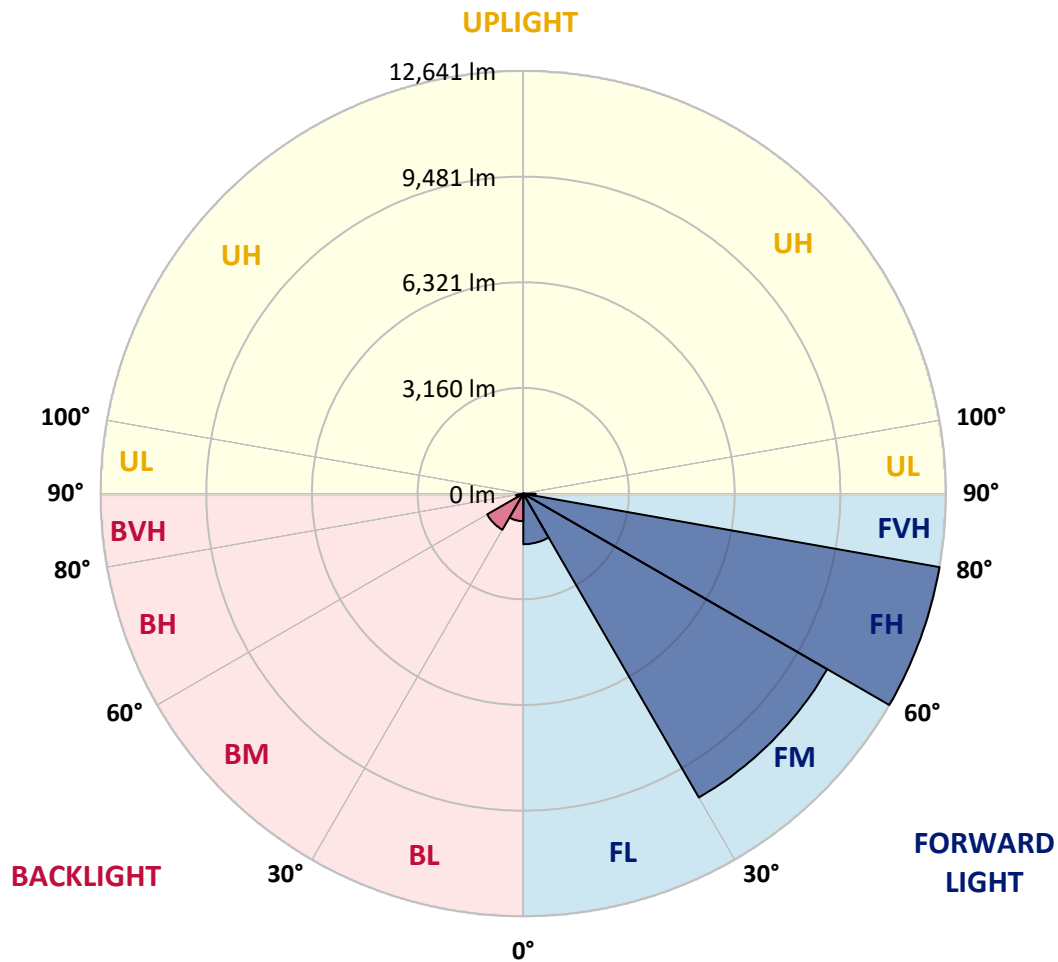


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1513.5	5.5			
FM (30°-60°)	10495.4	38.4			
FH (60°-80°)	12641.3	46.3			G5
FVH (80°-90°)	368.6	1.3			G3/500
BL (0°-30°)	824.1	3.0	B2/1000		
BM (30°-60°)	1247.7	4.6	B2/2500		
BH (60°-80°)	213.9	0.8	B1/500		G1/500
BVH (80°-90°)	1.4	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4391.2	4391.2	4391.2	4391.2	4391.2	4391.2	4391.2	4391.2	4391.2	4391.2	4391.2
2.5°	4072.6	4114.6	4108.3	4122.9	4158.6	4173.2	4213.1	4257.1	4317.9	4359.8	4387.0
5°	3647.1	3678.6	3682.8	3756.1	3791.8	3831.6	3949.0	4076.8	4219.4	4332.5	4408.0
7.5°	3192.3	3209.1	3242.6	3339.0	3429.1	3469.0	3647.1	3869.3	4093.6	4305.3	4441.5
10°	2817.1	2836.0	2896.7	2999.5	3083.3	3135.7	3383.0	3661.8	3976.2	4290.6	4489.7
12.5°	2603.3	2613.8	2636.8	2729.1	2836.0	2892.6	3158.8	3477.4	3881.9	4296.9	4571.5
15°	2588.6	2584.4	2557.2	2594.9	2691.3	2750.0	3009.9	3351.6	3798.0	4317.9	4667.9
17.5°	2666.2	2655.7	2590.7	2590.7	2670.4	2718.6	2947.1	3284.5	3756.1	4366.1	4804.2
20°	2785.7	2768.9	2662.0	2653.6	2731.2	2781.5	2984.8	3288.7	3764.5	4456.2	4986.5
22.5°	2936.6	2917.7	2756.3	2760.5	2844.3	2894.6	3093.8	3364.2	3816.9	4567.3	5181.4
25°	3133.6	3112.6	2921.9	2913.5	3001.5	3045.6	3255.2	3498.3	3890.3	4705.6	5437.2
27.5°	3395.6	3351.6	3123.1	3110.5	3204.9	3261.5	3450.1	3678.6	4020.2	4896.4	5780.9
30°	3611.5	3563.3	3345.3	3311.8	3412.4	3456.4	3651.3	3921.7	4275.9	5229.7	6256.7
32.5°	3894.5	3823.2	3567.5	3479.4	3586.3	3642.9	3942.7	4374.5	4655.3	5581.8	6822.7
35°	4531.7	4487.6	4175.3	3867.2	3860.9	3932.2	4372.4	4831.4	5045.2	6131.0	7594.0
37.5°	5443.4	5412.0	5080.8	4667.9	4548.4	4514.9	4894.3	5334.5	5667.7	6885.5	8491.1
40°	6502.0	6428.6	6124.7	5774.6	5619.5	5521.0	5510.5	6082.7	6481.0	7910.5	9426.0
42.5°	7260.7	7126.6	6757.7	6732.5	6699.0	6596.3	6298.6	7176.9	7531.1	9013.0	10425.8
45°	8057.2	7853.9	7304.7	7210.4	7197.8	7191.6	7489.2	8472.2	8675.6	10207.8	11452.8
47.5°	8675.6	8514.2	8063.5	8021.6	8074.0	8216.5	9063.3	9847.3	9805.3	11272.6	12314.3
50°	9499.3	9377.7	8876.8	8956.4	9226.8	9459.5	10838.7	11345.9	10733.9	12111.0	12941.0
52.5°	10471.9	10247.6	9782.3	9998.2	10413.2	10801.0	12723.0	12658.1	11385.8	12741.9	13408.5
55°	11314.5	11155.2	10995.9	11220.2	11840.6	12324.8	14425.0	13641.1	11859.5	13249.2	13613.9
57.5°	12739.8	12702.1	12538.6	12767.1	13519.5	14022.6	15948.9	14404.1	12163.4	13513.3	13372.8
60°	14848.4	14787.7	14483.7	14775.1	15756.0	16546.2	17353.2	15089.5	12232.6	13410.5	12679.0
62.5°	17384.7	17177.2	16917.2	17346.9	18692.6	19040.5	18675.8	15496.1	11974.8	12593.1	11006.4
65°	19753.2	19539.4	19545.7	20451.2	21916.3	22153.2	20218.5	15435.3	11220.2	10545.2	8118.0
67.5°	21566.3	21530.7	21786.4	23553.3	25469.1	25305.6	21597.7	14525.6	8983.7	6835.2	4313.7
70°	21658.5	21727.7	22461.3	25444.0	27389.1	27129.2	21480.4	11807.1	5600.7	3144.1	1699.9
71°	20543.4	21008.7	22023.2	25385.3	27502.3	27164.8	20491.0	9889.2	4108.3	2192.5	1226.2
72.5°	17506.2	17751.5	19943.9	23890.8	26607.3	25886.3	17982.0	6931.6	2630.5	1341.5	704.3
75°	9641.8	10245.5	13356.1	18742.9	21281.2	20648.2	11719.0	3292.9	1312.1	733.6	291.4
77.5°	4590.4	4473.0	6516.6	11146.8	14429.2	14395.7	5904.6	1463.0	765.1	496.8	146.7
80°	1312.1	1475.6	2494.3	5298.8	8011.1	8099.1	2267.9	706.4	530.3	387.8	75.5
82.5°	396.2	404.5	916.0	2343.4	3984.6	3756.1	851.0	360.5	381.5	308.1	44.0
85°	69.2	85.9	270.4	825.8	1519.6	1152.8	213.8	171.9	251.5	203.3	25.2
87.5°	4.2	6.3	90.1	94.3	134.1	77.6	37.7	25.2	54.5	54.5	14.7
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°	4391.2	4391.2	4391.2	4391.2	4391.2	4391.2	4391.2	4391.2	4391.2	4391.2	4391.2
2.5°	4405.9	4418.5	4410.1	4391.2	4359.8	4322.1	4271.8	4229.8	4194.2	4175.3	4198.4
5°	4433.2	4449.9	4408.0	4313.7	4171.1	4016.0	3840.0	3703.7	3596.8	3563.3	3550.7
7.5°	4475.1	4485.6	4372.4	4162.8	3860.9	3494.1	3173.4	2903.0	2693.4	2630.5	2538.3
10°	4529.6	4523.3	4309.5	3919.6	3389.3	2838.1	2341.3	1972.4	1693.6	1593.0	1584.6
12.5°	4613.4	4579.9	4229.8	3588.4	2827.6	2106.5	1492.4	1167.5	991.4	932.7	920.2
15°	4718.2	4638.6	4104.1	3200.7	2165.2	1360.3	920.2	821.7	798.6	794.4	790.2
17.5°	4841.9	4716.1	3938.5	2724.9	1521.7	882.4	769.3	767.2	769.3	765.1	763.0
20°	5009.6	4797.9	3741.5	2161.0	1006.1	744.1	733.6	733.6	735.7	733.6	733.6
22.5°	5187.7	4894.3	3498.3	1649.6	758.8	706.4	704.3	708.5	712.7	710.6	710.6
25°	5407.8	5020.0	3177.6	1129.8	679.1	674.9	677.0	685.4	693.8	695.9	693.8
27.5°	5726.4	5175.2	2833.9	777.6	622.5	626.7	647.7	668.6	681.2	683.3	683.3
30°	6084.8	5347.0	2385.3	630.9	576.4	576.4	601.6	641.4	668.6	672.8	674.9
32.5°	6546.0	5546.2	1888.5	568.0	532.4	528.2	551.3	599.5	649.8	664.4	664.4
35°	7116.1	5780.9	1404.4	528.2	501.0	490.5	503.1	542.9	607.9	649.8	654.0
37.5°	7784.7	6003.1	1027.1	492.6	471.6	456.9	465.3	496.8	549.2	612.0	628.8
40°	8403.1	6200.1	767.2	463.2	442.3	431.8	438.1	452.7	496.8	555.5	565.9
42.5°	9078.0	6353.1	610.0	431.8	412.9	408.7	408.7	415.0	444.4	477.9	480.0
45°	9750.8	6407.6	511.4	394.1	381.5	385.7	383.6	379.4	392.0	387.8	387.8
47.5°	10230.8	6342.7	423.4	358.4	358.4	364.7	354.2	339.6	333.3	308.1	310.2
50°	10559.9	6105.8	347.9	316.5	333.3	341.7	320.7	297.6	274.6	247.3	241.0
52.5°	10696.2	5684.5	285.1	262.0	295.5	306.0	280.9	253.6	218.0	194.9	188.6
55°	10608.1	5164.7	236.9	213.8	249.4	262.0	236.9	205.4	165.6	140.4	136.2
57.5°	10220.4	4544.2	201.2	169.8	199.1	207.5	190.7	157.2	117.4	92.2	92.2
60°	9549.6	3902.9	163.5	134.1	148.8	161.4	144.6	113.2	79.7	56.6	52.4
62.5°	8189.3	3169.2	132.1	104.8	104.8	115.3	100.6	81.7	50.3	29.3	27.2
65°	5913.0	2173.6	104.8	77.6	75.5	75.5	62.9	54.5	29.3	12.6	8.4
67.5°	3213.2	1226.2	83.8	58.7	52.4	50.3	39.8	31.4	12.6	2.1	0.0
70°	1263.9	471.6	65.0	39.8	33.5	31.4	21.0	14.7	8.4	0.0	0.0
71°	857.3	324.9	56.6	33.5	27.2	23.1	16.8	12.6	6.3	0.0	0.0
72.5°	490.5	201.2	44.0	25.2	21.0	16.8	12.6	8.4	6.3	0.0	0.0
75°	213.8	102.7	27.2	18.9	14.7	10.5	8.4	6.3	2.1	0.0	0.0
77.5°	109.0	56.6	18.9	14.7	8.4	6.3	4.2	2.1	0.0	0.0	0.0
80°	60.8	29.3	12.6	8.4	6.3	4.2	2.1	2.1	0.0	0.0	0.0
82.5°	33.5	16.8	6.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.0	10.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.5	4.2	0.0	0.0	0.0	0.0	2.1	2.1	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)