

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: P652031

Luminaire Tested: **GALN-SA7A-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652031
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-SA7A-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 20972.9 lumens
Efficiency: N/A
Efficacy: 97.5 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

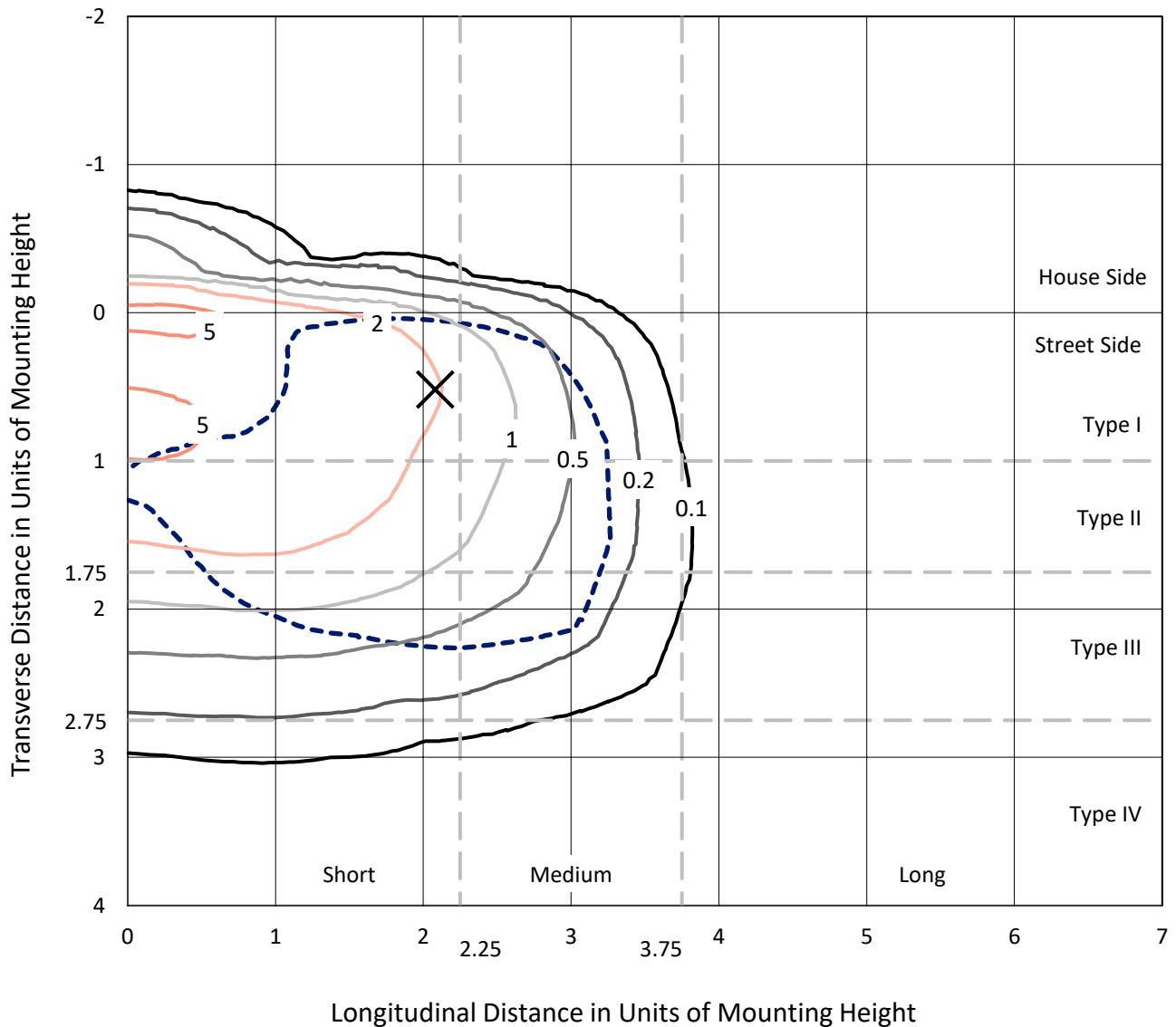
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

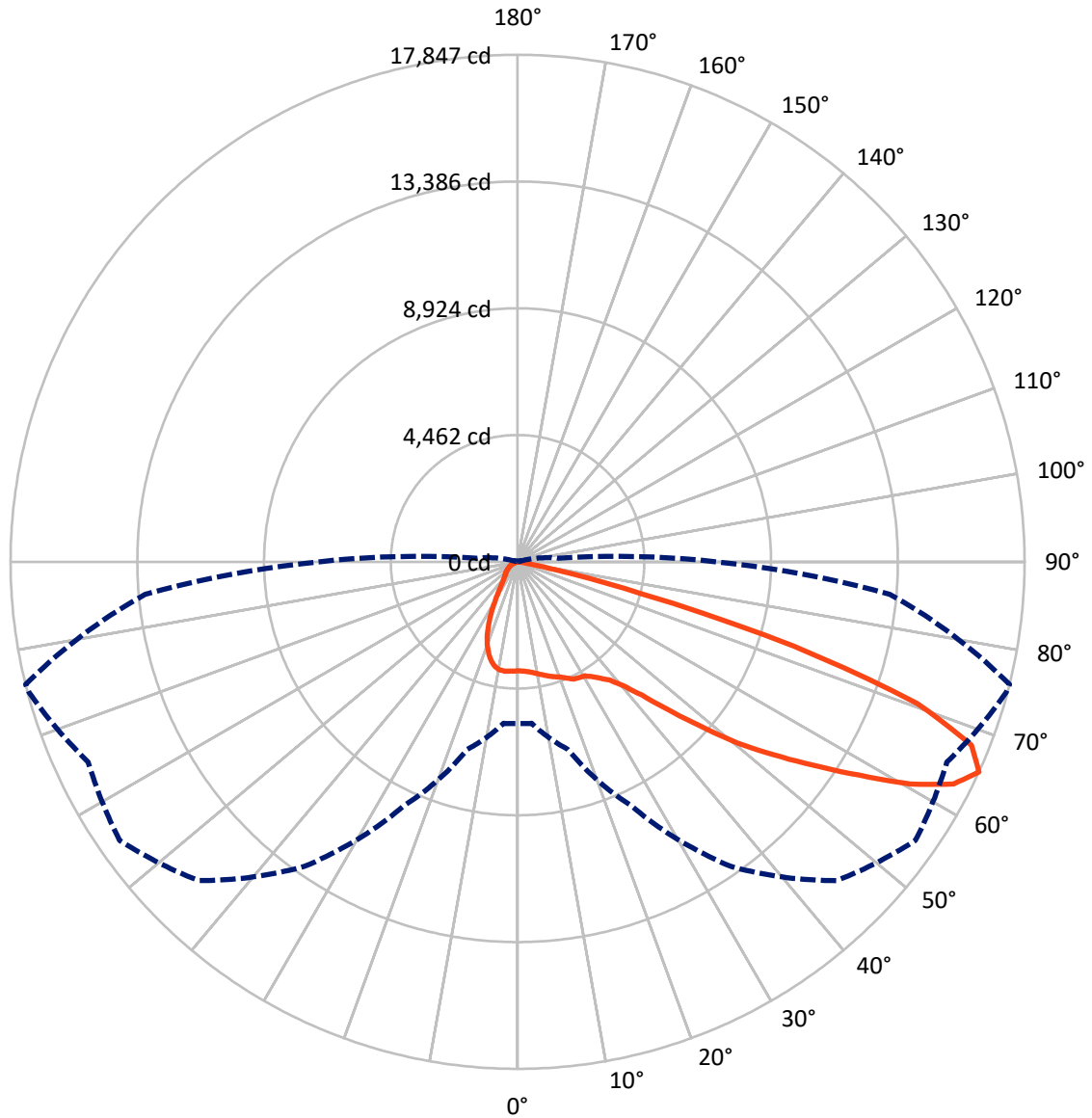
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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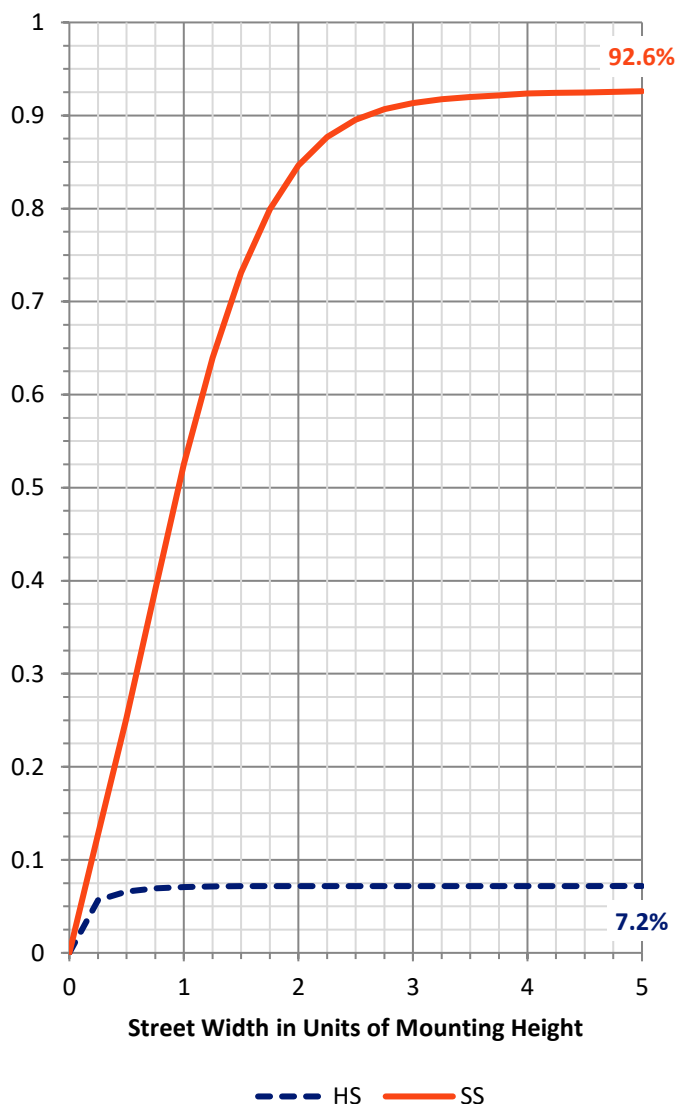
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1514.7	0.0	1514.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	19458.2	0.0	19458.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	20972.9	0.0	20972.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.0	1.5
10°-20°	703.7	3.4
20°-30°	1134.0	5.4
30°-40°	1971.7	9.4
40°-50°	3258.0	15.5
50°-60°	5033.0	24.0
60°-70°	6146.0	29.3
70°-80°	2332.6	11.1
80°-90°	77.8	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°	20972.9	100.0
0°-180°	20972.9	100.0

Coefficient of Utilization



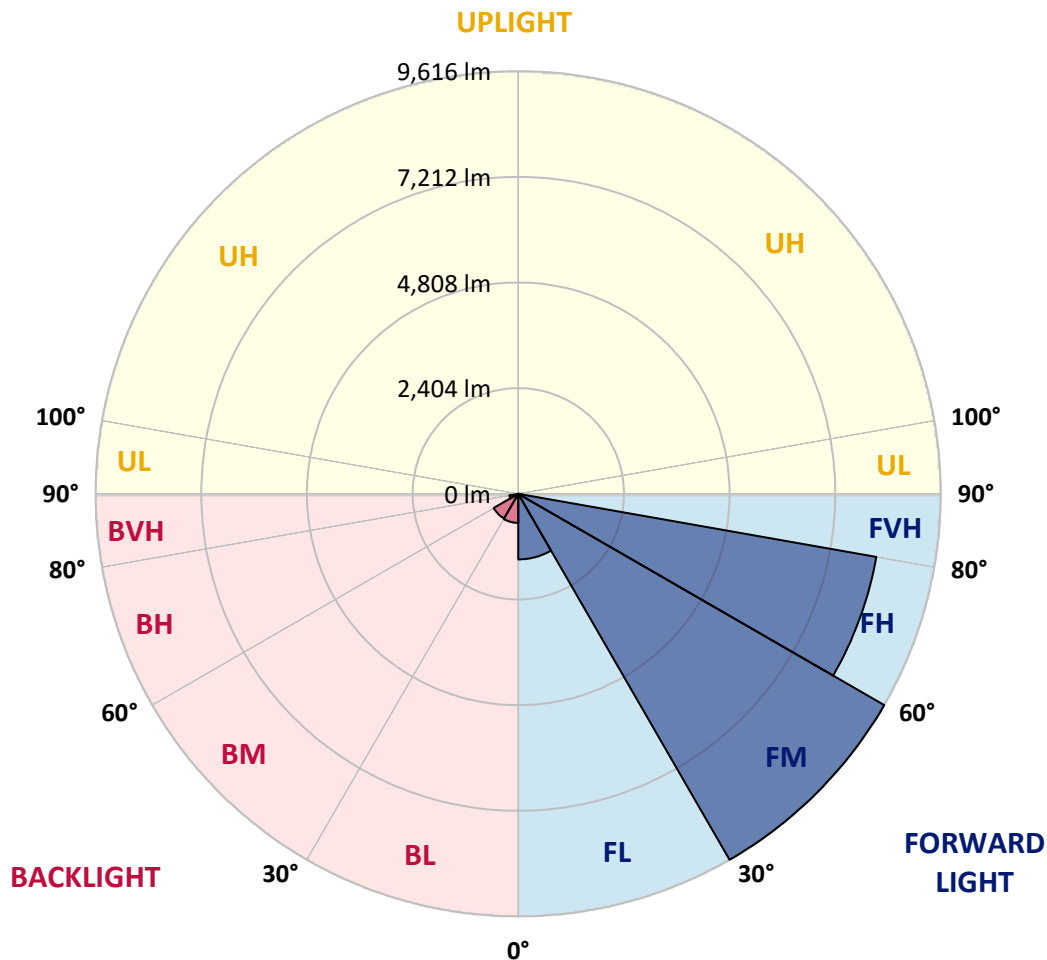
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1492.0	7.1			
FM (30°-60°)	9616.4	45.9			
FH (60°-80°)	8273.1	39.4			G4/12000
FVH (80°-90°)	76.8	0.4			G1/100
BL (0°-30°)	661.7	3.2	B2/1000		
BM (30°-60°)	646.3	3.1	B1/1000		
BH (60°-80°)	205.5	1.0	B1/500		G1/500
BVH (80°-90°)	1.1	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°	3836.6	3836.6	3836.6	3836.6	3836.6	3836.6	3836.6	3836.6	3836.6	3836.6	3836.6
2.5°	3666.3	3667.8	3676.7	3698.9	3732.9	3761.1	3784.8	3823.3	3849.9	3852.9	3861.8
5°	3413.1	3395.4	3413.1	3470.9	3522.7	3601.2	3697.5	3793.7	3879.5	3885.5	3927.0
7.5°	3128.8	3143.7	3171.7	3231.0	3328.7	3448.7	3587.9	3759.6	3922.5	3937.3	4018.7
10°	2840.1	2872.6	2918.5	3008.8	3145.1	3300.6	3490.2	3735.9	3990.6	4011.3	4152.0
12.5°	2573.5	2588.3	2644.6	2766.0	2934.8	3154.0	3416.1	3722.6	4066.2	4091.3	4294.1
15°	2369.2	2388.4	2437.3	2546.9	2734.9	3016.2	3355.3	3718.1	4140.2	4175.7	4436.3
17.5°	2330.7	2342.5	2363.3	2437.3	2601.6	2906.7	3300.6	3716.6	4211.2	4254.2	4568.1
20°	2489.1	2478.8	2458.1	2450.6	2540.9	2822.3	3260.6	3728.5	4279.3	4328.2	4707.2
22.5°	2886.0	2899.3	2777.9	2634.3	2604.7	2808.9	3254.7	3784.8	4387.4	4445.2	4862.7
25°	3728.5	3626.3	3436.8	3093.3	2834.2	2890.4	3321.3	3918.1	4513.3	4577.0	5003.4
27.5°	4659.9	4628.8	4334.1	3768.5	3285.8	3062.2	3439.8	4020.2	4554.8	4619.9	5083.4
30°	5575.0	5612.0	5274.4	4649.6	3941.8	3380.6	3550.8	4058.8	4591.8	4659.9	5185.5
32.5°	6423.5	6467.9	6171.8	5552.8	4714.6	3931.3	3741.9	4208.3	4747.3	4816.8	5355.8
35°	7091.3	7097.2	6873.6	6380.5	5558.7	4600.7	4155.0	4470.3	4957.5	5038.9	5536.5
37.5°	7704.3	7695.4	7433.3	7008.4	6262.1	5265.5	4674.7	4772.4	5197.4	5281.8	5797.1
40°	8158.9	8164.8	8080.4	7680.6	6918.1	5880.0	5086.4	5055.3	5600.1	5731.9	6176.2
42.5°	8462.5	8517.2	8558.7	8355.8	7742.8	6636.7	5718.6	5660.9	6299.1	6408.7	6712.2
45°	8708.2	8805.9	9013.2	9002.9	8535.0	7565.1	6586.4	6467.9	7289.7	7406.7	7394.8
47.5°	8887.4	8986.6	9330.1	9537.4	9279.8	8465.4	7677.7	7575.5	8472.8	8600.2	8148.5
50°	8979.2	9097.7	9536.0	9937.3	9861.7	9333.1	8921.5	8927.4	9901.8	10024.6	9022.2
52.5°	8764.5	8918.6	9645.6	10368.2	10514.8	10163.8	10086.8	10282.3	11173.7	11278.8	9811.4
55°	8078.9	8272.9	9496.0	10735.4	11271.4	11144.1	11410.6	11708.2	12564.1	12632.2	10621.4
57.5°	7645.1	7850.9	9054.7	11047.8	12180.6	12376.1	12798.1	13015.7	13998.9	14172.2	11551.3
60°	7279.4	7440.7	8692.0	11114.5	13104.5	13883.5	14293.6	14518.7	15769.9	15882.5	12574.5
62.5°	6670.7	6855.8	8078.9	10649.5	13569.5	15090.2	15940.2	15839.5	17139.6	17218.0	13202.3
65°	5692.0	5708.3	6835.1	9481.2	13089.7	15873.5	17096.7	16674.7	17794.1	17847.4	13153.4
67.5°	4248.2	4405.2	5258.1	7452.6	11056.7	15204.3	17471.3	16696.9	17380.9	17232.8	12109.5
70°	2736.4	2856.4	3564.2	5167.8	7972.3	12688.5	16228.9	15552.3	15254.6	14925.9	9912.1
72.5°	1263.1	1417.1	2117.5	2952.6	4728.0	9038.5	13174.2	12635.2	10979.7	10168.3	6300.5
75°	550.9	589.4	1045.4	1557.7	2216.7	4779.8	8686.0	7843.5	4959.0	4529.6	2521.7
77.5°	336.1	361.3	547.9	835.1	870.7	1821.4	4679.2	3422.0	1532.6	1351.9	684.1
80°	228.0	256.2	398.3	436.8	297.6	507.9	1756.2	913.6	309.5	296.1	146.6
82.5°	111.1	140.7	294.7	244.3	128.8	162.9	510.8	195.4	90.3	84.4	51.8
85°	16.3	28.2	165.8	160.0	57.8	38.5	90.3	48.9	31.1	29.6	23.7
87.5°	0.0	0.0	56.3	25.1	5.9	5.9	10.3	10.3	11.9	10.3	11.9
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°	3836.6	3836.6	3836.6	3836.6	3836.6	3836.6	3836.6	3836.6	3836.6	3836.6	3836.6
2.5°	3866.2	3873.6	3845.5	3805.5	3762.5	3719.7	3658.9	3604.1	3571.6	3590.8	3543.4
5°	3935.8	3929.9	3855.8	3734.5	3573.1	3379.1	3186.5	3022.2	2968.9	2888.9	2880.0
7.5°	4032.1	4015.8	3858.8	3580.5	3216.2	2851.9	2496.5	2261.1	2126.4	2012.3	2015.3
10°	4166.8	4119.4	3824.8	3309.4	2709.8	2160.4	1707.3	1396.3	1261.6	1218.7	1184.6
12.5°	4306.0	4214.2	3730.0	2943.8	2110.1	1476.3	1038.0	848.5	765.6	738.9	736.0
15°	4430.4	4285.2	3564.2	2503.9	1534.1	943.3	707.8	645.6	635.2	636.7	635.2
17.5°	4553.3	4341.6	3334.6	2037.5	1042.4	676.7	608.5	593.7	598.2	604.2	602.7
20°	4655.4	4353.4	3041.5	1554.8	737.4	593.7	571.5	568.6	573.1	577.5	577.5
22.5°	4766.5	4362.3	2693.5	1076.5	602.7	552.3	540.5	540.5	546.4	552.3	553.8
25°	4849.5	4313.4	2277.3	773.0	531.6	512.3	506.5	507.9	513.9	516.8	515.3
27.5°	4862.7	4175.7	1836.2	592.3	482.7	463.5	457.6	463.5	456.1	460.5	457.6
30°	4874.6	4001.0	1388.9	499.0	438.3	408.7	399.8	390.9	385.0	377.6	376.1
32.5°	4911.6	3795.2	1014.3	448.7	396.9	364.2	343.5	318.3	299.1	293.2	291.7
35°	4927.9	3547.8	744.8	408.7	359.8	324.3	287.3	251.7	223.6	213.2	220.6
37.5°	4990.1	3308.0	577.5	379.0	327.2	282.8	235.5	191.0	164.3	158.4	161.4
40°	5117.5	3047.4	484.2	353.9	299.1	244.3	186.5	143.6	125.9	119.9	118.5
42.5°	5321.8	2788.3	430.9	330.2	271.0	205.8	146.6	112.5	97.7	93.3	93.3
45°	5570.5	2539.5	393.8	305.0	241.4	165.8	115.5	90.3	81.4	78.5	78.5
47.5°	5897.8	2321.8	362.8	279.9	208.8	131.8	93.3	78.5	72.6	74.0	75.5
50°	6229.5	2160.4	328.7	251.7	171.7	108.1	80.0	69.6	68.1	69.6	69.6
52.5°	6479.7	2065.7	282.8	213.2	134.7	90.3	71.1	65.2	63.7	60.7	60.7
55°	6817.3	2044.9	225.1	173.2	106.6	75.5	63.7	59.2	54.7	51.8	50.4
57.5°	7251.2	2068.6	173.2	134.7	82.9	62.1	56.3	48.9	43.0	37.0	37.0
60°	7520.7	2015.3	134.7	103.6	60.7	50.4	43.0	35.6	28.2	23.7	22.2
62.5°	7434.8	1790.2	106.6	77.0	43.0	37.0	28.2	23.7	16.3	11.9	10.3
65°	6992.1	1445.2	85.9	53.3	31.1	22.2	14.8	14.8	7.4	1.5	0.0
67.5°	6119.9	1070.6	68.1	35.6	17.7	10.3	7.4	4.5	0.0	0.0	0.0
70°	4981.2	773.0	53.3	22.2	10.3	7.4	2.9	1.5	0.0	0.0	0.0
72.5°	3162.8	442.7	41.5	13.3	7.4	2.9	0.0	0.0	0.0	0.0	0.0
75°	1223.1	173.2	28.2	8.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	346.5	81.4	16.3	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	90.3	35.6	8.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	43.0	14.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.1	5.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.9	1.5	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)