

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: P528987

Luminaire Tested: **GALN-SA4A-760-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-760-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10580 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

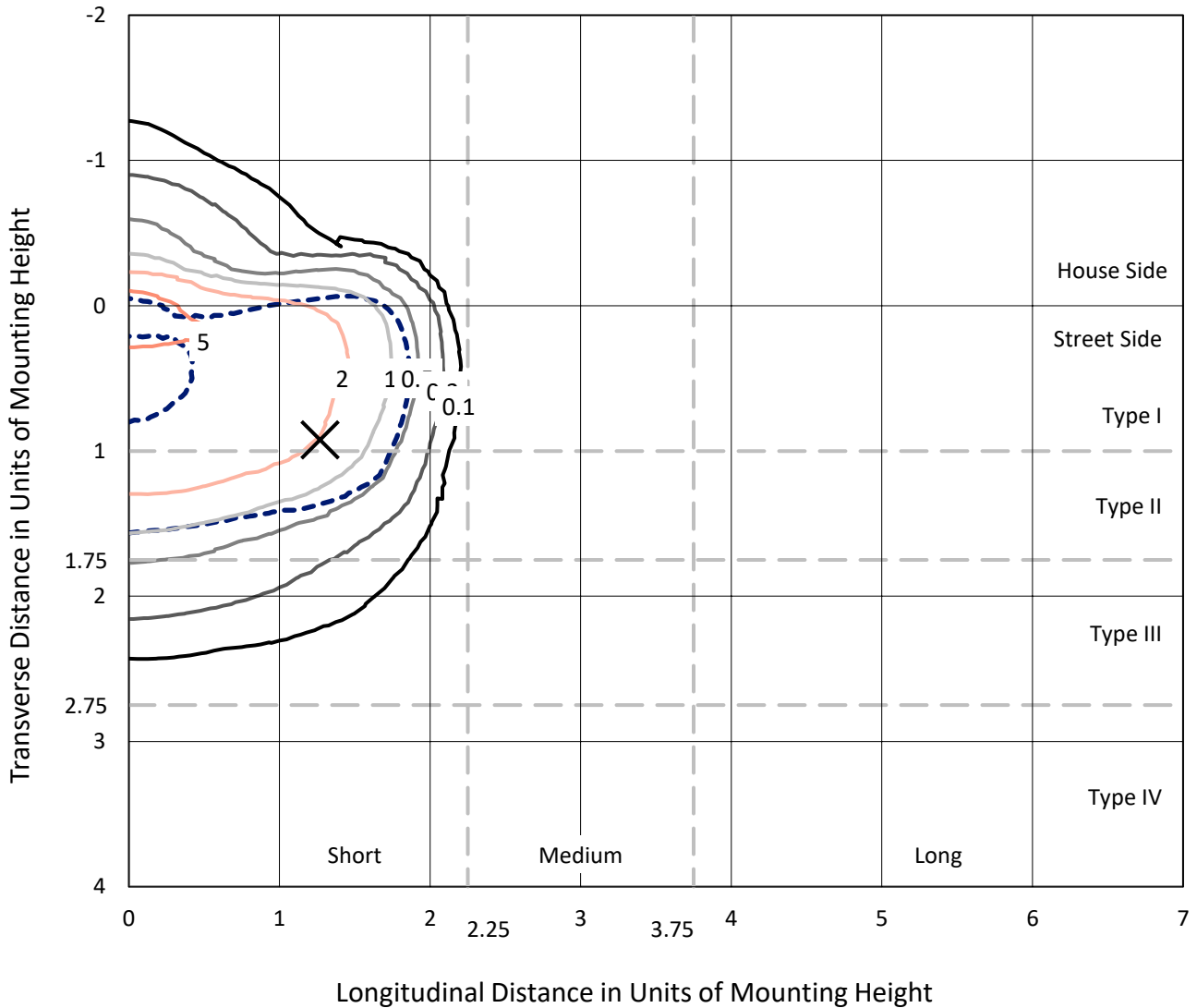
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

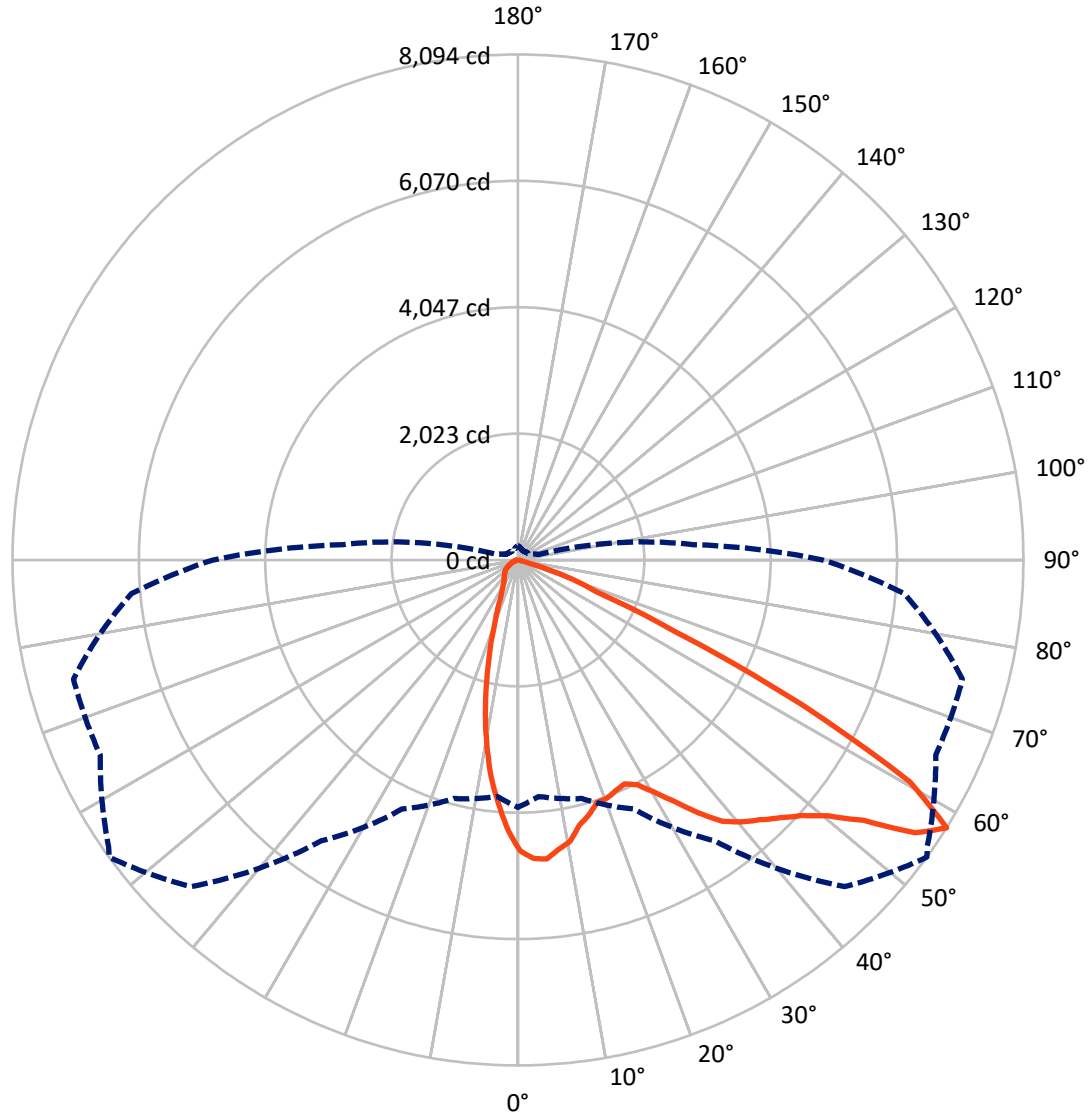
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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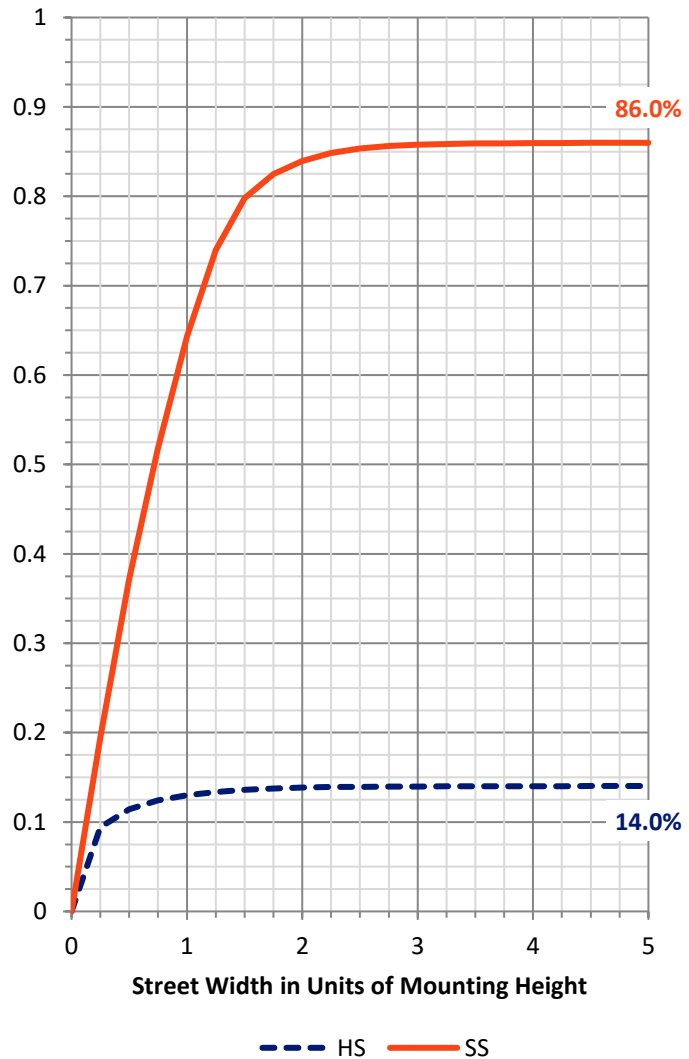
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1495.1	0.0	1495.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	9084.9	0.0	9084.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	10580.0	0.0	10580.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.0	3.7
10°-20°	832.7	7.9
20°-30°	1103.4	10.4
30°-40°	1603.6	15.2
40°-50°	2377.9	22.5
50°-60°	2973.5	28.1
60°-70°	1172.9	11.1
70°-80°	116.8	1.1
80°-90°	9.1	0.1
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°	10580.0	100.0
0°-180°	10580.0	100.0

Coefficient of Utilization



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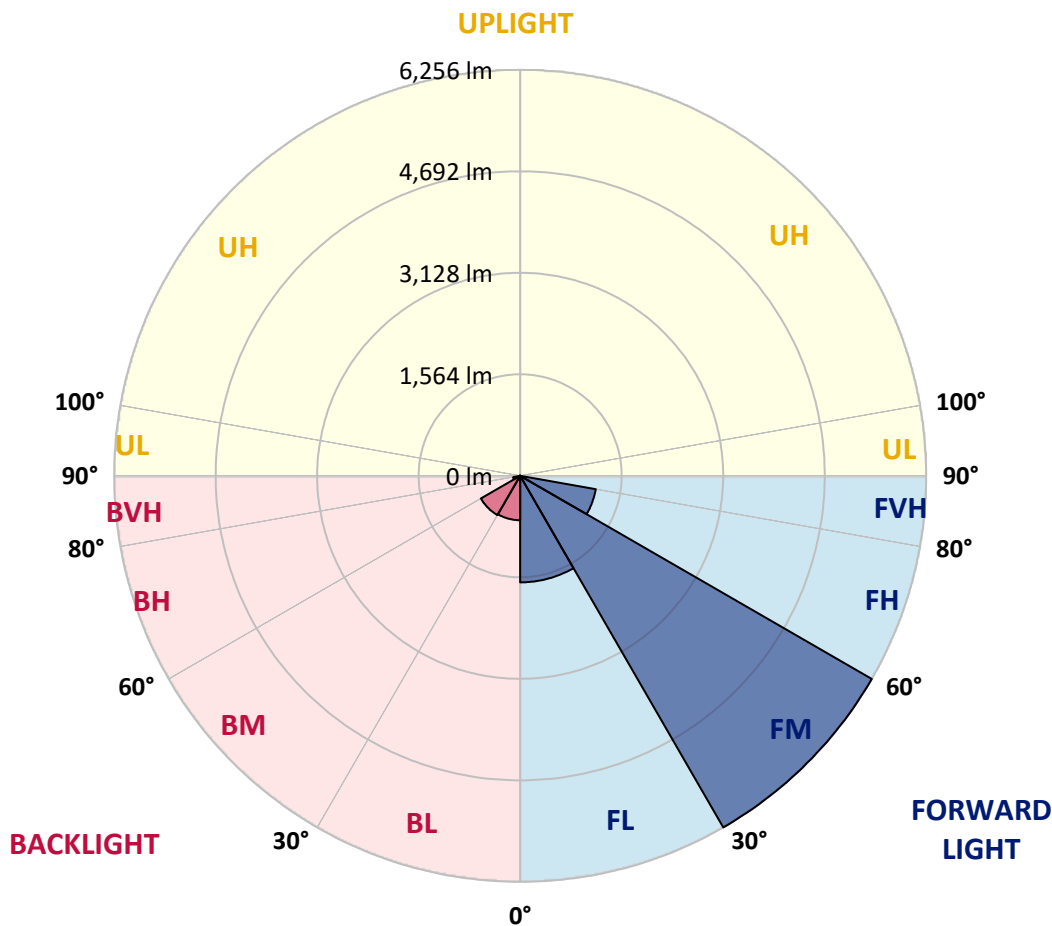
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1642.3	15.5			
FM (30°-60°)	6255.9	59.1			
FH (60°-80°)	1182.5	11.2			G1/1800
FVH (80°-90°)	4.1	0.0			G0/10
BL (0°-30°)	683.8	6.5	B2/1000		
BM (30°-60°)	699.2	6.6	B1/1000		
BH (60°-80°)	107.2	1.0	B0/110		G0/110
BVH (80°-90°)	5.0	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4660.6	4660.6	4660.6	4660.6	4660.6	4660.6	4660.6	4660.6	4660.6	4660.6	4660.6
2.5°	4932.1	4881.0	4884.9	4867.2	4843.6	4861.3	4784.6	4802.3	4800.3	4696.0	4627.2
5°	4808.2	4863.3	4806.2	4853.4	4808.2	4857.4	4810.2	4774.7	4717.7	4641.0	4513.1
7.5°	4597.7	4544.6	4560.3	4619.3	4629.2	4739.3	4680.3	4725.6	4701.9	4550.5	4375.4
10°	4174.7	4162.9	4241.6	4320.3	4416.7	4534.7	4580.0	4554.4	4536.7	4479.6	4245.5
12.5°	3850.1	3883.5	3881.6	4011.4	4174.7	4241.6	4359.6	4355.7	4454.1	4347.8	4123.5
15°	3541.2	3558.9	3641.5	3722.2	3903.2	4094.0	4239.6	4259.3	4377.3	4302.6	4029.1
17.5°	3352.4	3326.8	3391.7	3488.1	3673.0	3922.9	4084.2	4131.4	4292.7	4277.0	3920.9
20°	3165.5	3165.5	3218.6	3332.7	3501.9	3783.2	4070.4	4056.7	4292.7	4247.5	3804.8
22.5°	3102.5	3134.0	3147.7	3234.3	3435.0	3677.0	4011.4	4037.0	4326.2	4233.7	3753.7
25°	3189.1	3147.7	3151.7	3220.5	3409.4	3625.8	3968.1	4025.2	4387.2	4302.6	3712.4
27.5°	3202.8	3244.1	3256.0	3303.2	3429.1	3641.5	4076.3	4192.4	4538.7	4463.9	3724.2
30°	3322.8	3364.2	3362.2	3442.8	3529.4	3769.4	4318.3	4341.9	4851.5	4666.5	3797.0
32.5°	3468.4	3511.7	3525.5	3619.9	3688.8	4003.5	4613.4	4674.4	5152.5	4985.2	3987.8
35°	3649.4	3633.7	3696.6	3791.1	3938.6	4345.9	4973.4	5075.7	5477.1	5398.4	4184.5
37.5°	3875.7	3856.0	3917.0	4070.4	4271.1	4751.1	5305.9	5372.8	5713.2	5782.0	4548.5
40°	4035.0	4042.9	4227.8	4434.4	4646.9	5136.7	5516.4	5581.3	5878.4	6140.1	4823.9
42.5°	4300.6	4349.8	4572.1	4823.9	5046.2	5425.9	5687.6	5750.5	5955.1	6427.3	5195.7
45°	4686.2	4664.6	4910.5	5191.8	5437.7	5726.9	5890.2	5868.6	6000.4	6712.6	5429.9
47.5°	5182.0	5185.9	5349.2	5589.2	5845.0	5988.6	6116.5	6039.7	6094.8	7013.6	5742.7
50°	5520.4	5549.9	5681.7	5927.6	6055.5	6275.8	6439.1	6391.9	6374.2	7194.6	5939.4
52.5°	5606.9	5695.5	5766.3	6073.2	6372.2	6720.4	6929.0	7029.3	6714.5	7255.6	6189.3
55°	4953.8	5032.5	5282.3	5703.3	6492.2	7424.7	7712.0	7713.9	7159.2	7527.0	6364.4
57.5°	3960.3	3800.9	3954.4	4400.9	5488.9	7395.2	8093.6	8001.2	7381.5	7367.7	6212.9
60°	2738.5	2699.2	2709.0	2886.1	3798.9	5882.4	7212.3	7332.3	6797.2	6386.0	4918.4
62.5°	2170.0	2136.5	2093.3	2073.6	2358.8	3665.2	5087.5	5256.7	4753.1	4141.3	2915.6
65°	1699.8	1680.1	1686.0	1764.7	1762.7	2079.5	2781.8	2713.0	2171.9	1605.4	916.8
67.5°	1147.0	1176.5	1200.1	1438.1	1560.1	1448.0	1343.7	1304.3	706.3	297.1	202.6
70°	645.3	649.2	674.8	899.1	1184.3	1123.4	926.6	926.6	352.2	108.2	116.1
72.5°	352.2	340.4	316.7	387.6	527.2	535.1	413.1	360.0	104.3	70.8	64.9
75°	171.2	169.2	145.6	120.0	114.1	94.4	72.8	66.9	47.2	45.2	39.3
77.5°	35.4	33.4	17.7	17.7	19.7	21.6	27.5	27.5	33.4	33.4	27.5
80°	0.0	0.0	2.0	7.9	13.8	19.7	23.6	23.6	27.5	27.5	21.6
82.5°	0.0	0.0	2.0	5.9	11.8	17.7	21.6	23.6	27.5	29.5	23.6
85°	0.0	0.0	0.0	3.9	9.8	13.8	11.8	11.8	9.8	7.9	3.9
87.5°	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4660.6	4660.6	4660.6	4660.6	4660.6	4660.6	4660.6	4660.6	4660.6	4660.6	4660.6
2.5°	4591.8	4587.8	4497.3	4446.2	4353.7	4273.1	4208.1	4160.9	4160.9	4131.4	4103.9
5°	4461.9	4428.5	4235.7	4111.7	3936.7	3806.8	3718.3	3649.4	3541.2	3570.7	3454.7
7.5°	4300.6	4216.0	3960.3	3771.4	3529.4	3344.5	3155.6	2988.4	2827.1	2754.3	2793.6
10°	4127.5	3979.9	3635.6	3336.6	3035.6	2697.2	2476.9	2209.3	2044.1	2034.2	1990.9
12.5°	3944.5	3777.3	3358.3	2945.1	2549.7	2142.4	1806.0	1556.2	1444.0	1320.1	1343.7
15°	3806.8	3558.9	3049.4	2551.6	2026.4	1615.2	1276.8	1084.0	977.8	948.3	938.4
17.5°	3657.3	3391.7	2734.6	2132.6	1589.6	1162.7	918.7	826.3	785.0	785.0	779.1
20°	3501.9	3202.8	2421.8	1743.1	1192.2	867.6	735.8	706.3	704.3	702.3	702.3
22.5°	3399.6	2986.4	2138.5	1385.0	899.1	694.5	639.4	627.6	635.5	659.1	659.1
25°	3291.4	2777.9	1825.7	1068.3	696.4	596.1	564.6	572.5	592.2	613.8	605.9
27.5°	3181.2	2642.1	1530.6	838.1	570.5	521.3	509.5	527.2	548.9	568.6	562.7
30°	3155.6	2496.6	1251.2	635.5	489.9	454.5	462.3	478.1	499.7	507.6	515.4
32.5°	3195.0	2382.5	1025.0	521.3	426.9	417.1	417.1	424.9	438.7	456.4	450.5
35°	3307.1	2317.5	810.5	452.5	391.5	381.7	379.7	387.6	395.4	401.3	395.4
37.5°	3478.3	2266.4	663.0	401.3	367.9	352.2	348.2	346.3	354.1	356.1	360.0
40°	3696.6	2293.9	562.7	369.9	344.3	326.6	314.8	314.8	314.8	320.7	322.6
42.5°	3932.7	2331.3	485.9	352.2	322.6	301.0	289.2	285.3	289.2	297.1	295.1
45°	4180.6	2404.1	436.7	324.6	303.0	275.4	259.7	255.8	265.6	281.3	279.4
47.5°	4412.7	2508.4	399.4	306.9	283.3	257.7	238.0	234.1	251.8	273.5	275.4
50°	4644.9	2689.4	385.6	293.1	269.5	240.0	222.3	218.4	238.0	265.6	271.5
52.5°	4912.5	2884.1	375.8	275.4	253.8	226.2	206.6	202.6	224.3	259.7	261.7
55°	5087.5	3049.4	367.9	244.0	224.3	204.6	188.9	186.9	210.5	242.0	249.9
57.5°	4882.9	2819.2	340.4	212.5	190.8	181.0	167.2	167.2	186.9	216.4	222.3
60°	3702.5	1855.2	242.0	171.2	161.3	155.4	149.5	149.5	165.3	186.9	188.9
62.5°	2168.0	999.4	155.4	137.7	137.7	131.8	122.0	122.0	137.7	149.5	151.5
65°	643.3	320.7	125.9	118.0	116.1	106.2	96.4	94.4	106.2	112.1	110.2
67.5°	184.9	147.6	104.3	98.4	96.4	80.7	74.8	72.8	74.8	70.8	68.9
70°	110.2	100.3	80.7	82.6	72.8	59.0	53.1	51.2	47.2	41.3	37.4
72.5°	61.0	61.0	59.0	63.0	51.2	39.3	33.4	27.5	21.6	17.7	15.7
75°	37.4	39.3	41.3	43.3	33.4	25.6	21.6	13.8	7.9	3.9	3.9
77.5°	25.6	27.5	29.5	31.5	27.5	23.6	17.7	9.8	2.0	0.0	0.0
80°	19.7	21.6	25.6	27.5	29.5	31.5	23.6	9.8	2.0	0.0	0.0
82.5°	21.6	23.6	29.5	27.5	27.5	27.5	21.6	9.8	2.0	0.0	0.0
85°	3.9	5.9	9.8	9.8	13.8	17.7	13.8	3.9	0.0	0.0	0.0
87.5°	0.0	0.0	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)