

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: P528045

Luminaire Tested: **GALN-SA3A-760-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-760-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10184 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

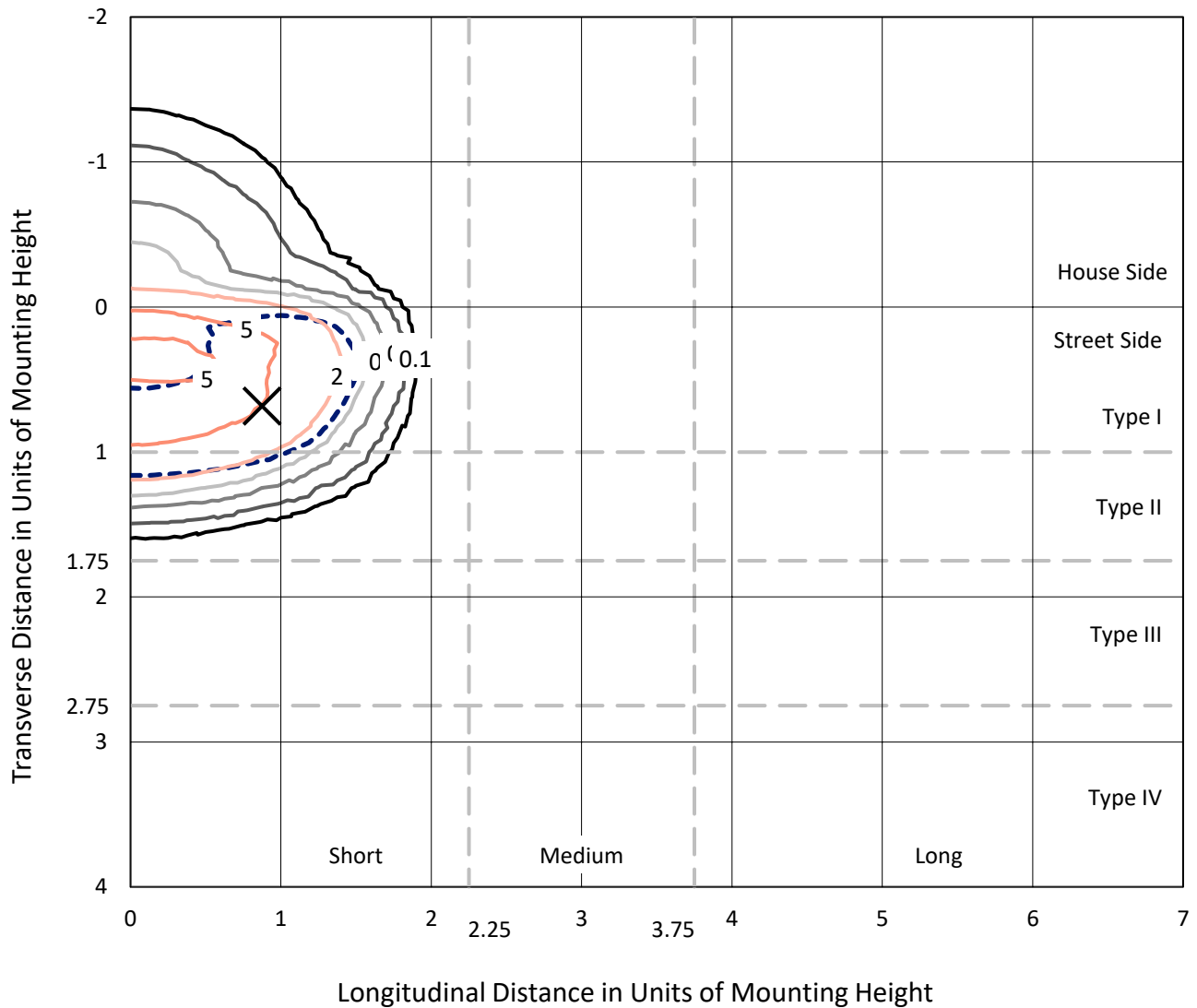
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

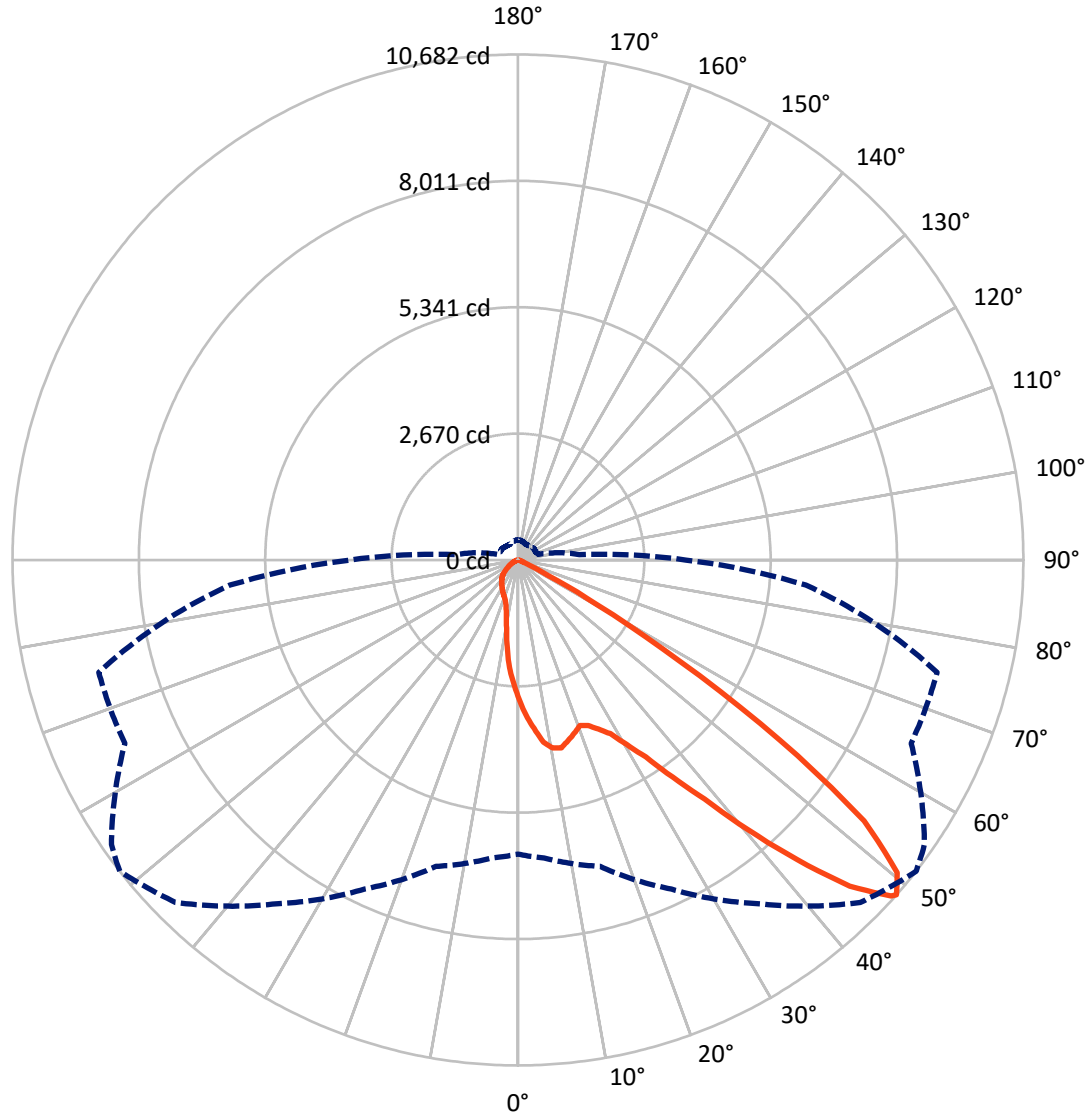
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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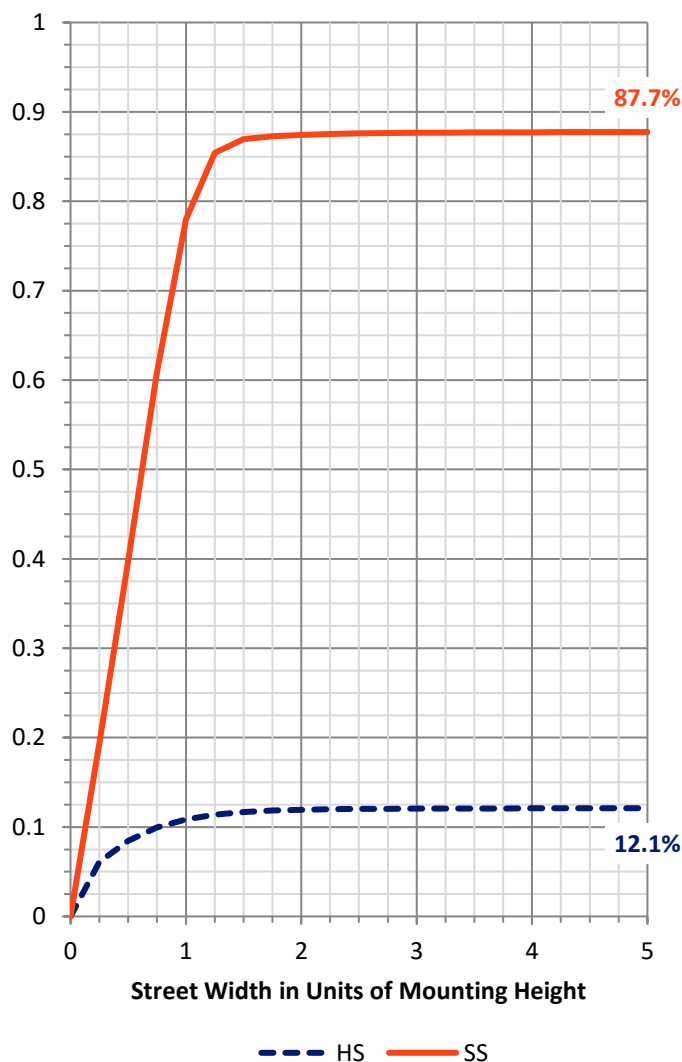
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1240.0	0.0	1240.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	8944.0	0.0	8944.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	10184.0	0.0	10184.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.2	2.6
10°-20°	703.5	6.9
20°-30°	1201.1	11.8
30°-40°	2211.9	21.7
40°-50°	3435.0	33.7
50°-60°	2067.3	20.3
60°-70°	239.1	2.3
70°-80°	46.3	0.5
80°-90°	10.7	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°	10184.0	100.0
0°-180°	10184.0	100.0

Coefficient of Utilization

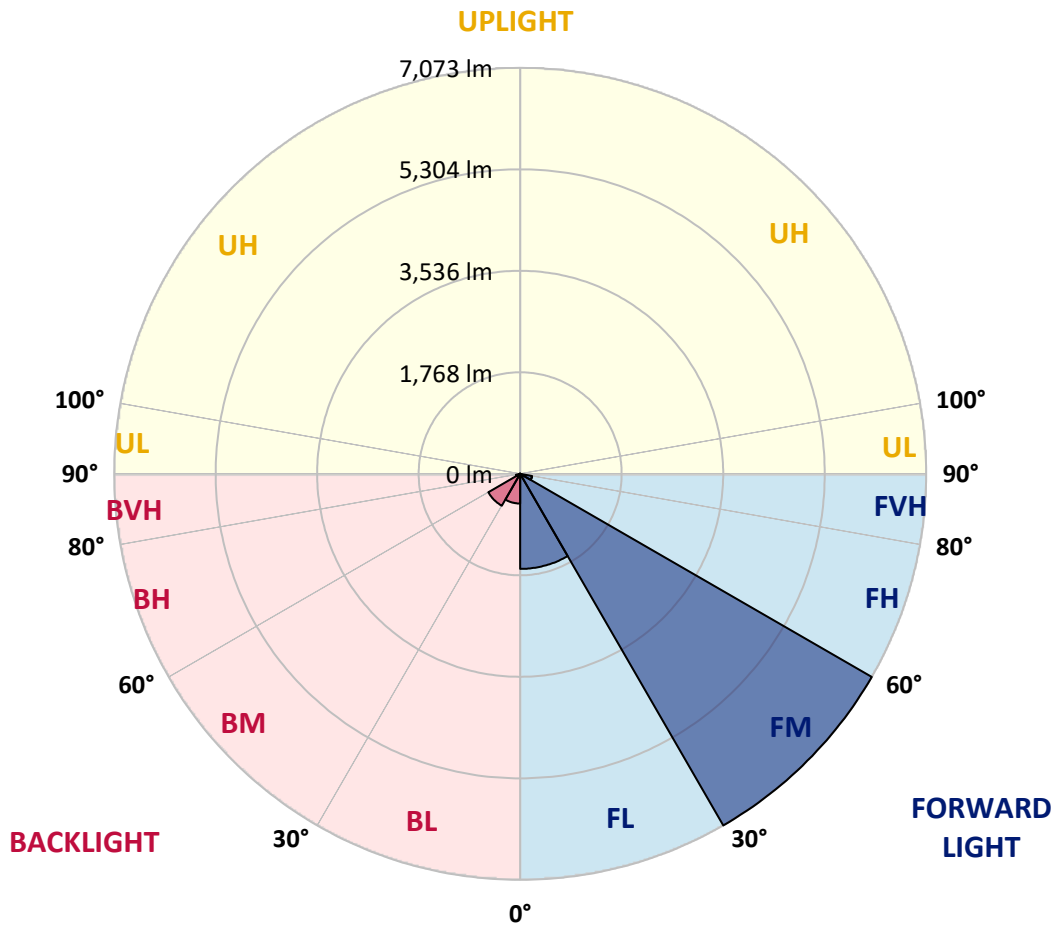


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1655.8	16.3			
FM (30°-60°)	7072.6	69.4			
FH (60°-80°)	210.5	2.1			G0/660
FVH (80°-90°)	5.1	0.1			G0/10
BL (0°-30°)	518.0	5.1	B2/1000		
BM (30°-60°)	641.6	6.3	B1/1000		
BH (60°-80°)	74.8	0.7	B0/110		G0/110
BVH (80°-90°)	5.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2941.0	2941.0	2941.0	2941.0	2941.0	2941.0	2941.0	2941.0	2941.0	2941.0	2941.0
2.5°	3564.5	3482.8	3490.3	3436.8	3405.6	3355.2	3286.9	3273.5	3199.3	3098.3	2995.9
5°	3885.2	3865.9	3891.1	3813.9	3816.9	3733.7	3573.4	3576.4	3405.6	3240.9	3082.0
7.5°	3906.0	3861.4	3886.7	3954.9	3995.0	3980.2	3889.6	3810.9	3649.1	3407.1	3175.5
10°	3497.7	3582.3	3609.0	3721.9	3882.2	4051.4	4041.1	4045.5	3910.4	3594.2	3255.7
12.5°	3252.7	3196.3	3286.9	3355.2	3597.2	3925.3	4075.2	4107.9	4118.2	3775.3	3335.9
15°	3141.4	3141.4	3156.2	3175.5	3350.7	3653.6	3959.4	4054.4	4278.6	4012.8	3462.1
17.5°	3211.2	3208.2	3229.0	3188.9	3254.2	3487.3	3852.5	3960.9	4458.2	4245.9	3561.5
20°	3423.5	3433.9	3420.5	3304.7	3309.1	3484.3	3733.7	3904.5	4580.0	4447.8	3693.7
22.5°	3718.9	3724.8	3649.1	3522.9	3485.8	3571.9	3802.0	3932.7	4677.9	4689.8	3733.7
25°	4060.3	4036.6	4021.8	3843.6	3730.8	3805.0	3956.4	4032.1	4738.8	4897.7	3848.1
27.5°	4533.9	4486.4	4395.9	4237.0	4153.9	4048.5	4156.8	4281.6	4912.5	5188.6	3972.8
30°	5233.2	5191.6	5014.9	4810.1	4591.8	4487.9	4522.1	4590.3	5225.8	5525.6	4137.5
32.5°	6285.7	6198.2	5942.8	5552.4	5255.4	4968.9	4960.0	5032.8	5506.3	5991.8	4333.5
35°	7445.2	7418.5	7042.9	6640.6	6066.0	5623.6	5631.0	5669.6	6043.8	6603.5	4590.3
37.5°	8215.7	8362.7	8123.7	7691.7	7209.2	6576.7	6416.4	6429.8	6781.6	7327.9	5053.5
40°	8811.0	8686.3	8714.5	8613.6	8284.0	7853.5	7498.7	7428.9	7635.2	8129.6	5513.8
42.5°	8551.2	8557.2	8730.9	8969.9	9051.5	9020.4	8658.1	8526.0	8365.7	8785.8	5951.7
45°	7817.8	7970.8	8196.4	8828.8	9384.1	9905.2	9833.9	9614.2	8870.4	9305.4	6204.1
47.5°	6648.0	6642.0	7011.7	7834.2	9067.9	10288.2	10611.8	10457.4	9228.2	9247.5	6152.1
48°	6216.0	6322.9	6704.4	7672.4	8867.4	10231.8	10681.6	10487.1	9167.3	9170.3	6107.6
50°	4594.8	4575.5	5050.6	6238.2	7920.3	9614.2	10387.7	10539.1	9165.9	8779.9	5795.8
52.5°	2427.3	2510.4	2856.3	3922.3	5599.9	7868.3	9162.9	9398.9	8842.2	8141.5	5347.5
55°	1031.8	932.3	1198.1	1771.1	3150.3	5256.9	6722.2	7247.8	7476.4	7204.7	4677.9
57.5°	368.2	402.3	463.2	666.6	1324.3	2877.1	4008.4	4416.7	5179.7	5286.6	3187.4
60°	236.0	240.5	259.8	305.8	497.3	1109.0	1901.8	2226.9	2572.8	2655.9	1487.6
62.5°	182.6	184.1	193.0	200.4	236.0	430.5	714.1	846.2	878.9	755.7	390.4
65°	152.9	154.4	157.4	157.4	167.8	201.9	249.4	274.6	267.2	264.3	221.2
67.5°	117.3	120.3	126.2	126.2	132.1	123.2	138.1	147.0	166.3	201.9	188.5
70°	92.0	93.5	98.0	101.0	101.0	89.1	99.5	108.4	121.7	149.9	148.5
72.5°	71.3	74.2	77.2	77.2	72.7	60.9	71.3	78.7	87.6	103.9	101.0
75°	54.9	54.9	56.4	46.0	35.6	31.2	43.1	52.0	65.3	68.3	56.4
77.5°	14.8	16.3	14.8	13.4	14.8	22.3	28.2	32.7	41.6	41.6	37.1
80°	0.0	1.5	4.5	8.9	14.8	20.8	25.2	28.2	32.7	35.6	34.1
82.5°	0.0	1.5	4.5	8.9	13.4	16.3	22.3	23.8	26.7	31.2	31.2
85°	0.0	1.5	3.0	5.9	8.9	10.4	10.4	8.9	8.9	7.4	5.9
87.5°	0.0	0.0	1.5	3.0	3.0	4.5	4.5	4.5	4.5	4.5	4.5
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°	2941.0	2941.0	2941.0	2941.0	2941.0	2941.0	2941.0	2941.0	2941.0	2941.0	2941.0
2.5°	2955.8	2909.8	2840.0	2730.2	2624.8	2556.5	2491.1	2418.4	2378.3	2375.3	2353.1
5°	2991.4	2887.5	2721.3	2532.7	2330.8	2157.1	1981.9	1867.6	1765.2	1708.8	1698.4
7.5°	3010.7	2875.6	2606.9	2290.7	1946.3	1662.7	1466.8	1322.8	1266.4	1224.8	1223.3
10°	3050.8	2854.9	2436.2	1970.0	1544.0	1257.4	1122.3	1057.0	1025.9	1014.0	996.2
12.5°	3080.5	2816.3	2261.0	1640.5	1220.3	1042.2	982.8	968.0	969.4	975.4	968.0
15°	3122.1	2782.1	2025.0	1346.5	1024.4	938.3	938.3	941.2	962.0	965.0	963.5
17.5°	3119.1	2715.3	1781.5	1109.0	905.6	893.7	898.2	926.4	939.7	944.2	933.8
20°	3154.8	2653.0	1530.6	947.2	838.8	856.6	886.3	893.7	910.1	913.0	901.1
22.5°	3144.4	2497.1	1297.5	819.5	788.3	822.5	852.2	861.1	856.6	847.7	846.2
25°	3125.1	2363.5	1083.7	734.9	751.2	788.3	816.5	800.2	791.3	792.8	794.3
27.5°	3090.9	2194.2	907.1	675.5	700.7	755.7	754.2	748.2	757.1	749.7	757.1
30°	3085.0	2025.0	761.6	622.0	663.6	703.7	706.7	717.1	727.4	714.1	727.4
32.5°	3093.9	1839.4	657.7	589.4	641.3	642.8	675.5	685.9	678.5	648.8	651.7
35°	3162.2	1696.9	582.0	571.6	605.7	607.2	638.4	625.0	592.4	574.5	584.9
37.5°	3306.2	1578.1	546.3	555.2	558.2	577.5	579.0	552.3	555.2	553.8	559.7
40°	3490.3	1487.6	521.1	540.4	537.4	550.8	497.3	512.2	525.5	530.0	533.0
42.5°	3616.5	1422.2	504.8	516.6	510.7	486.9	457.3	472.1	482.5	498.8	501.8
45°	3672.9	1370.3	485.5	475.1	475.1	432.0	420.1	423.1	446.9	464.7	461.7
47.5°	3580.8	1319.8	451.3	420.1	430.5	394.9	381.5	381.5	406.8	429.0	424.6
48°	3545.2	1299.0	452.8	408.3	415.7	389.0	375.6	372.6	400.8	421.6	421.6
50°	3368.5	1221.8	414.2	375.6	360.8	357.8	348.9	351.8	369.7	389.0	389.0
52.5°	3024.1	1055.5	350.4	322.2	295.4	313.2	317.7	311.8	320.7	338.5	337.0
55°	2523.8	810.6	280.6	267.2	246.4	265.7	274.6	267.2	258.3	271.7	271.7
57.5°	1616.7	436.5	224.2	227.1	206.4	225.7	233.1	215.3	198.9	209.3	207.8
60°	728.9	261.3	184.1	179.6	166.3	188.5	200.4	179.6	157.4	164.8	172.2
62.5°	273.2	185.6	139.6	136.6	133.6	154.4	160.3	144.0	121.7	126.2	127.7
65°	200.4	163.3	111.3	101.0	106.9	121.7	118.8	102.4	87.6	87.6	90.6
67.5°	170.7	142.5	90.6	78.7	78.7	80.2	74.2	65.3	60.9	63.8	66.8
70°	133.6	112.8	71.3	60.9	54.9	49.0	43.1	41.6	37.1	41.6	40.1
72.5°	86.1	75.7	54.9	46.0	41.6	34.1	28.2	26.7	22.3	20.8	20.8
75°	46.0	46.0	43.1	37.1	32.7	26.7	22.3	17.8	11.9	8.9	8.9
77.5°	32.7	35.6	38.6	35.6	29.7	22.3	17.8	11.9	5.9	3.0	3.0
80°	31.2	35.6	38.6	34.1	29.7	22.3	16.3	8.9	4.5	1.5	1.5
82.5°	28.2	32.7	35.6	31.2	26.7	19.3	14.8	8.9	4.5	1.5	1.5
85°	5.9	7.4	8.9	8.9	10.4	13.4	10.4	7.4	3.0	1.5	1.5
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	3.0	3.0	1.5	1.5	1.5
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)