

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: P529843

Luminaire Tested: **GALN-SA5A-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-735-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12452 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

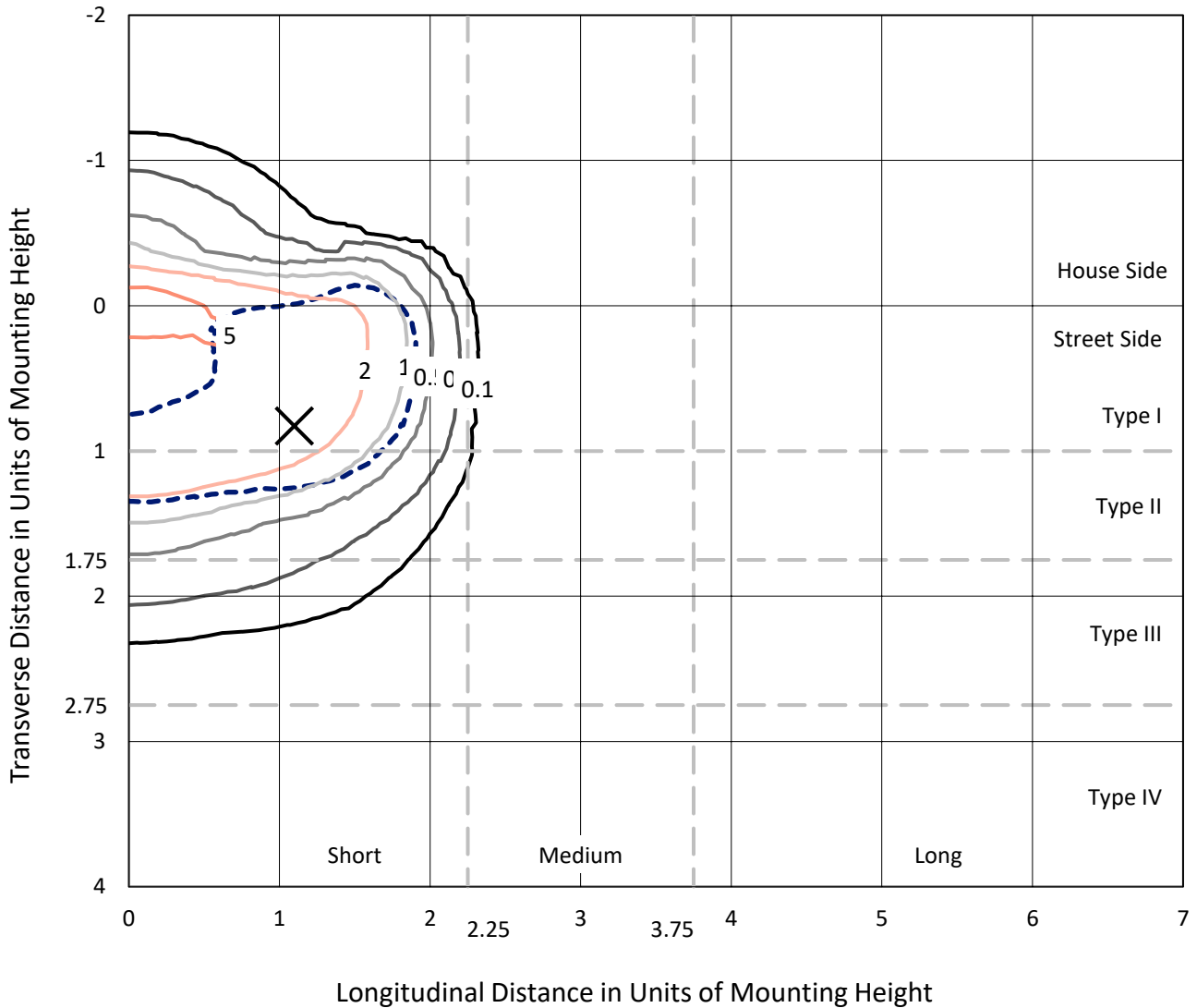
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

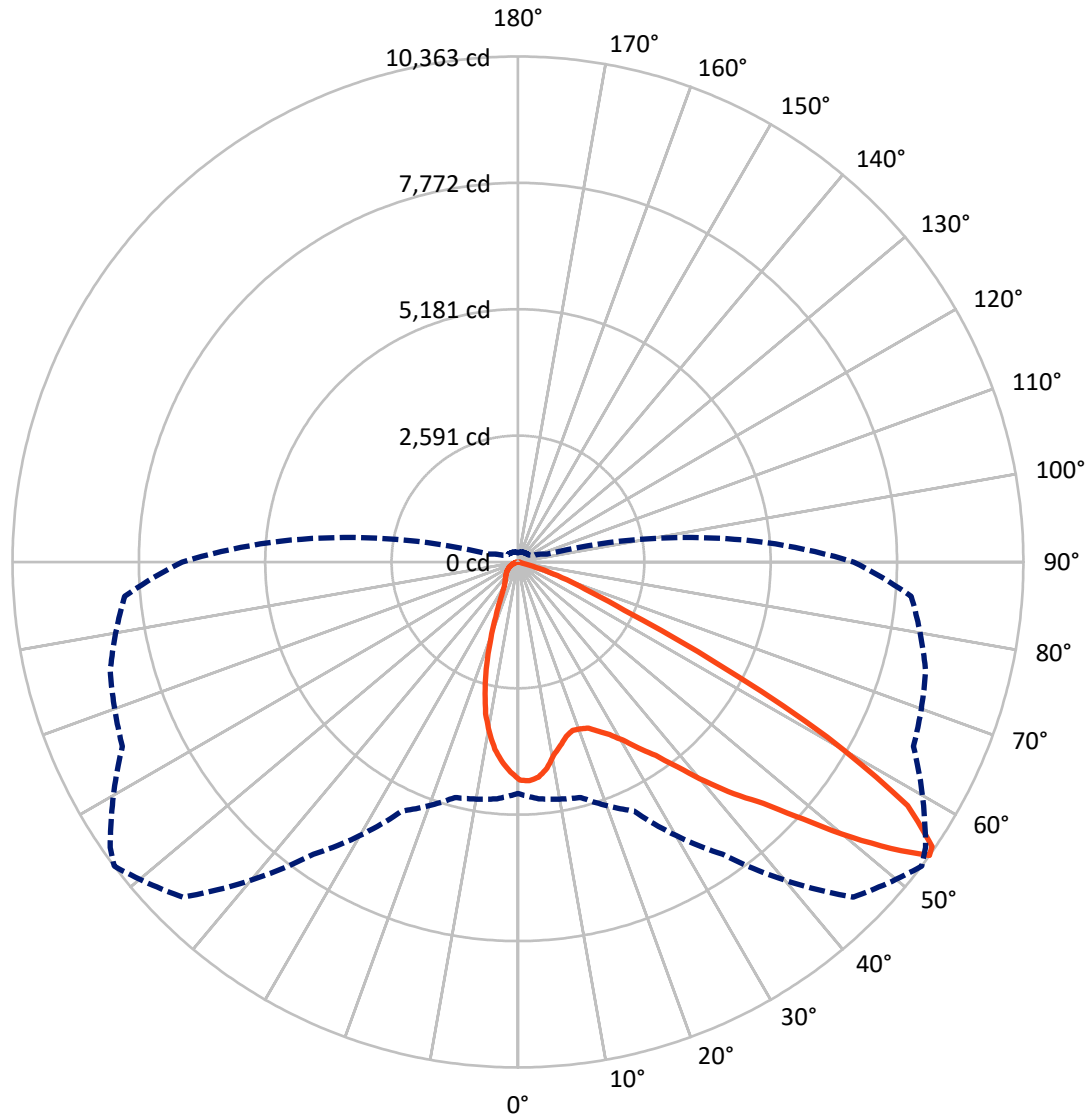
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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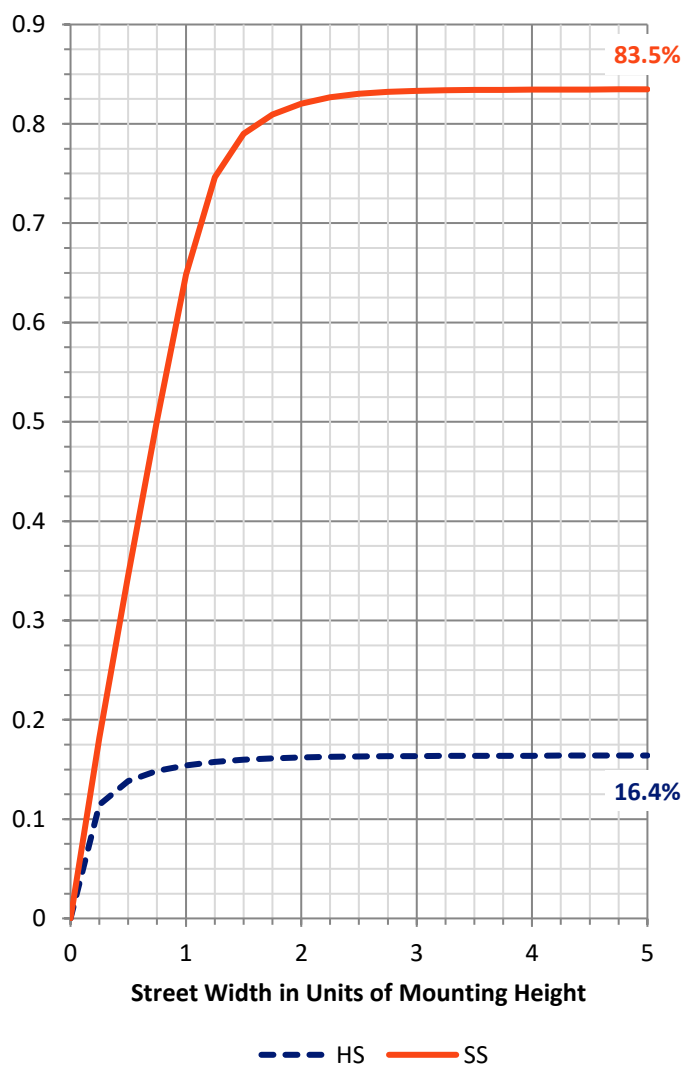
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2060.2	0.0	2060.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	10391.8	0.0	10391.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	12452.0	0.0	12452.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.7	3.1
10°-20°	879.8	7.1
20°-30°	1250.4	10.0
30°-40°	1929.6	15.5
40°-50°	3025.5	24.3
50°-60°	3514.5	28.2
60°-70°	1328.0	10.7
70°-80°	126.3	1.0
80°-90°	14.2	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°	12452.0	100.0
0°-180°	12452.0	100.0

Coefficient of Utilization

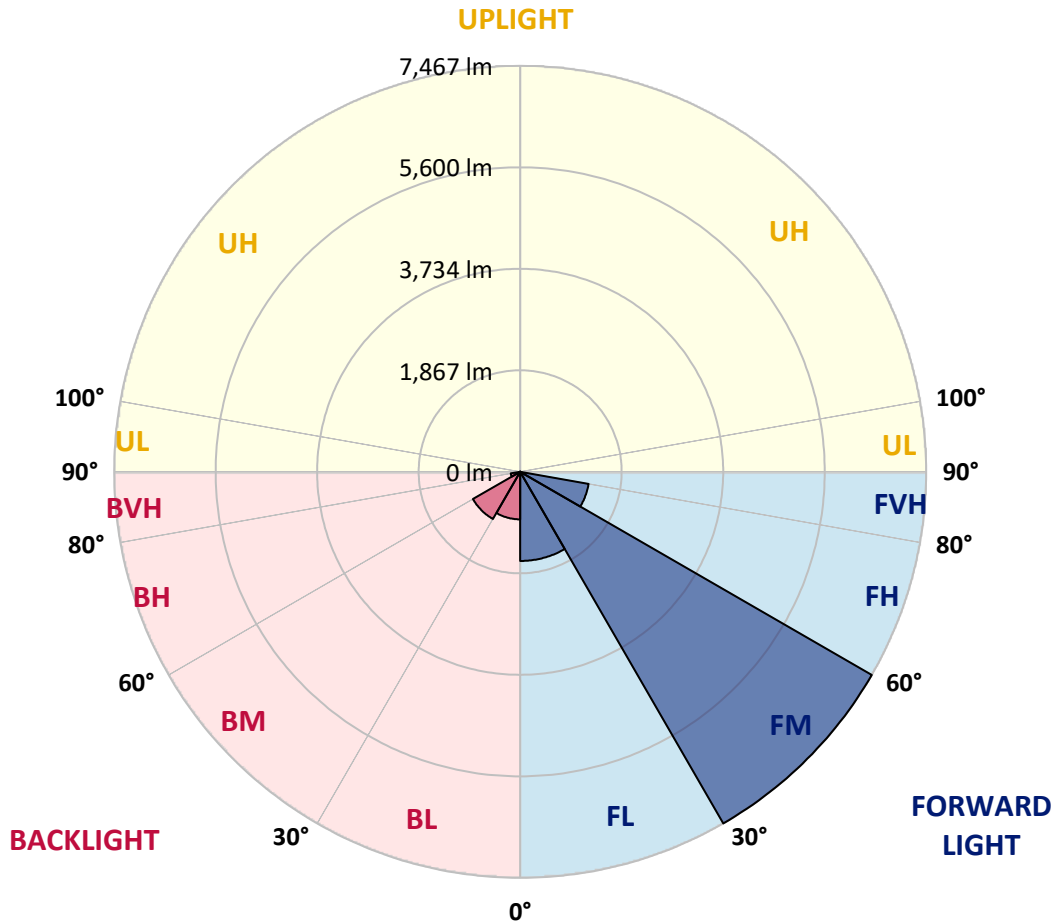


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1639.6	13.2			
FM (30°-60°)	7467.1	60.0			
FH (60°-80°)	1277.8	10.3			G1/1800
FVH (80°-90°)	7.3	0.1			G0/10
BL (0°-30°)	874.3	7.0	B2/1000		
BM (30°-60°)	1002.6	8.1	B2/2500		
BH (60°-80°)	176.5	1.4	B1/500		G1/500
BVH (80°-90°)	6.9	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5
2.5°	4449.4	4409.9	4449.4	4454.0	4481.8	4507.3	4491.1	4528.2	4507.3	4484.1	4477.2
5°	4089.8	4143.1	4145.5	4229.0	4210.4	4363.5	4430.8	4412.2	4525.9	4518.9	4502.7
7.5°	3767.3	3746.5	3774.3	3871.7	3994.7	4171.0	4268.4	4266.1	4428.5	4544.5	4532.9
10°	3468.1	3465.8	3523.8	3600.3	3704.7	3890.3	4024.8	4092.1	4345.0	4521.3	4546.8
12.5°	3266.3	3257.0	3319.6	3382.2	3547.0	3690.8	3862.4	3894.9	4184.9	4440.1	4481.8
15°	3134.0	3154.9	3159.5	3280.2	3384.6	3574.8	3709.3	3776.6	4110.7	4375.1	4535.2
17.5°	3110.8	3138.7	3141.0	3240.7	3352.1	3512.2	3630.5	3720.9	4048.0	4407.6	4537.5
20°	3157.2	3141.0	3154.9	3217.5	3326.6	3479.7	3651.3	3681.5	4027.1	4423.8	4563.0
22.5°	3289.5	3284.8	3250.0	3301.1	3377.6	3537.7	3700.1	3746.5	4087.5	4507.3	4583.9
25°	3435.6	3461.1	3428.6	3421.7	3475.0	3632.8	3848.5	3908.8	4289.3	4658.1	4648.9
27.5°	3709.3	3683.8	3683.8	3651.3	3637.4	3714.0	4008.6	4108.3	4514.3	4853.0	4723.1
30°	3971.5	3999.3	3978.4	3990.0	3897.2	3890.3	4235.9	4358.9	4913.3	5149.9	4880.8
32.5°	4386.7	4349.6	4384.4	4354.2	4231.3	4106.0	4544.5	4672.1	5395.8	5490.9	5117.4
35°	4732.4	4716.1	4864.6	4860.0	4660.5	4537.5	4871.6	5061.8	5732.2	5899.2	5395.8
37.5°	5224.2	5194.0	5363.3	5444.5	5265.9	5082.7	5340.1	5560.5	6045.4	6226.3	5681.2
40°	5729.9	5806.4	6033.8	6168.3	5978.1	5734.5	5913.1	5980.4	6254.1	6439.7	5876.0
42.5°	6370.1	6481.5	6713.5	6829.5	6813.2	6548.8	6495.4	6493.1	6404.9	6379.4	6019.8
45°	6984.9	6943.1	7300.4	7553.2	7757.4	7680.8	7056.8	6987.2	6643.9	6469.9	6057.0
47.5°	7254.0	7240.1	7483.6	7933.7	8629.6	8724.7	7873.4	7604.3	7047.5	6850.3	6258.8
50°	6906.0	6977.9	7219.2	7717.9	8785.0	9511.1	8875.5	8513.6	7518.4	7314.3	6736.7
52.5°	5769.3	5818.0	6047.7	6681.0	8256.1	9975.1	9835.9	9627.1	8383.7	8045.0	7569.5
54°	4744.0	4873.9	4999.1	5634.8	7314.3	9717.6	10362.5	10202.4	8947.4	8652.8	8093.7
55°	4131.5	4208.1	4298.6	4931.9	6662.4	9281.5	10302.2	10316.1	9325.5	8843.0	8446.3
57.5°	3018.0	3071.4	2978.6	3259.3	4574.6	7537.0	9423.0	9798.8	9835.9	9128.4	8662.1
60°	2305.9	2329.1	2224.7	2268.8	2844.1	5173.1	7288.8	7741.1	8873.2	7977.7	7337.5
62.5°	1788.6	1793.2	1790.9	1867.4	1960.2	3043.6	4558.4	4959.7	6117.3	5664.9	4982.9
65°	1317.6	1296.8	1333.9	1565.9	1672.6	1913.8	2401.0	2693.3	3324.3	2806.9	2006.6
67.5°	853.7	860.6	897.8	1164.5	1433.6	1468.4	1477.7	1454.5	1456.8	802.6	503.4
70°	512.7	524.3	512.7	658.8	1025.3	1053.2	962.7	939.5	733.1	190.2	187.9
72.5°	303.9	287.7	257.5	283.0	426.8	510.4	459.3	457.0	287.7	111.3	111.3
75°	127.6	116.0	95.1	85.8	113.7	109.0	109.0	97.4	76.6	74.2	69.6
77.5°	25.5	25.5	18.6	20.9	27.8	32.5	39.4	39.4	46.4	46.4	44.1
80°	0.0	2.3	7.0	13.9	20.9	30.2	34.8	34.8	39.4	39.4	32.5
82.5°	0.0	2.3	7.0	13.9	18.6	27.8	34.8	34.8	39.4	41.8	34.8
85°	0.0	2.3	7.0	11.6	18.6	23.2	23.2	20.9	16.2	13.9	9.3
87.5°	0.0	0.0	2.3	4.6	2.3	4.6	4.6	4.6	4.6	4.6	4.6
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°	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5
2.5°	4493.4	4491.1	4435.4	4345.0	4324.1	4247.5	4238.3	4191.9	4217.4	4131.5	4122.3
5°	4456.3	4428.5	4361.2	4303.2	4133.9	4013.2	3918.1	3802.1	3734.9	3746.5	3702.4
7.5°	4509.7	4437.8	4319.4	4117.6	3911.2	3700.1	3586.4	3349.8	3263.9	3136.4	3117.8
10°	4454.0	4400.6	4217.4	3883.3	3598.0	3294.1	3027.3	2765.2	2565.7	2479.9	2461.3
12.5°	4449.4	4356.6	4050.3	3679.2	3266.3	2830.1	2442.7	2115.6	1918.5	1807.1	1781.6
15°	4377.4	4266.1	3862.4	3363.7	2793.0	2250.2	1828.0	1512.5	1361.7	1296.8	1315.3
17.5°	4384.4	4217.4	3674.5	3029.6	2326.7	1651.7	1248.0	1085.7	1046.2	1062.5	1062.5
20°	4377.4	4108.3	3447.2	2644.6	1781.6	1146.0	916.3	858.3	883.8	934.9	923.3
22.5°	4340.3	4057.3	3238.4	2238.6	1310.7	849.0	735.4	737.7	777.1	839.8	853.7
25°	4368.2	3943.6	2974.0	1828.0	955.8	677.4	637.9	654.2	695.9	742.3	751.6
27.5°	4347.3	3862.4	2697.9	1419.7	698.3	582.3	579.9	598.5	617.1	651.9	651.9
30°	4370.5	3788.2	2426.5	1055.5	575.3	533.6	524.3	538.2	556.7	563.7	561.4
32.5°	4456.3	3732.5	2113.3	788.7	508.0	487.2	487.2	487.2	484.8	494.1	496.4
35°	4644.2	3741.8	1837.3	610.1	464.0	447.7	440.8	431.5	426.8	431.5	433.8
37.5°	4848.4	3737.2	1551.9	519.6	431.5	417.6	401.3	387.4	385.1	389.7	382.8
40°	4938.8	3781.3	1287.5	466.3	401.3	385.1	359.6	348.0	350.3	354.9	350.3
42.5°	5061.8	3795.2	1115.8	424.5	373.5	348.0	331.7	317.8	315.5	322.5	320.1
45°	5059.5	3716.3	934.9	401.3	348.0	320.1	299.3	287.7	287.7	292.3	294.6
47.5°	5207.9	3704.7	802.6	380.4	329.4	301.6	276.1	266.8	264.5	264.5	259.8
50°	5553.6	3867.1	700.6	357.2	306.2	280.7	259.8	248.2	238.9	234.3	232.0
52.5°	6228.6	4372.8	621.7	329.4	280.7	259.8	241.3	232.0	220.4	208.8	206.5
54°	6882.8	4894.7	617.1	306.2	259.8	245.9	229.7	225.0	211.1	194.9	190.2
55°	7177.4	5198.6	633.3	287.7	245.9	236.6	222.7	218.1	204.1	185.6	183.3
57.5°	7421.0	5317.0	624.0	238.9	222.7	220.4	208.8	201.8	185.6	160.1	155.4
60°	5973.5	4020.2	447.7	211.1	204.1	199.5	190.2	185.6	164.7	136.9	134.5
62.5°	3774.3	2312.8	285.3	185.6	178.6	171.7	160.1	155.4	136.9	109.0	102.1
65°	1607.6	958.1	192.5	164.7	153.1	141.5	132.2	125.3	109.0	81.2	78.9
67.5°	417.6	341.0	160.1	143.8	127.6	111.3	104.4	92.8	74.2	55.7	53.4
70°	187.9	171.7	134.5	120.6	102.1	85.8	76.6	65.0	48.7	37.1	34.8
72.5°	111.3	109.0	102.1	90.5	76.6	65.0	55.7	44.1	32.5	20.9	20.9
75°	69.6	67.3	69.6	62.6	53.4	48.7	41.8	30.2	18.6	9.3	9.3
77.5°	41.8	41.8	41.8	39.4	37.1	37.1	30.2	18.6	9.3	2.3	2.3
80°	32.5	32.5	34.8	32.5	32.5	32.5	25.5	13.9	4.6	0.0	0.0
82.5°	32.5	34.8	39.4	37.1	32.5	27.8	23.2	13.9	4.6	0.0	0.0
85°	9.3	7.0	11.6	16.2	23.2	20.9	16.2	11.6	4.6	0.0	0.0
87.5°	4.6	4.6	4.6	4.6	2.3	2.3	2.3	2.3	2.3	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)