

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: P650793

Luminaire Tested: **GALN-SA3C-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650793  
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-SA3C-840-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 1050mA 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: 10322.4 lumens  
Efficiency: N/A  
Efficacy: 64.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

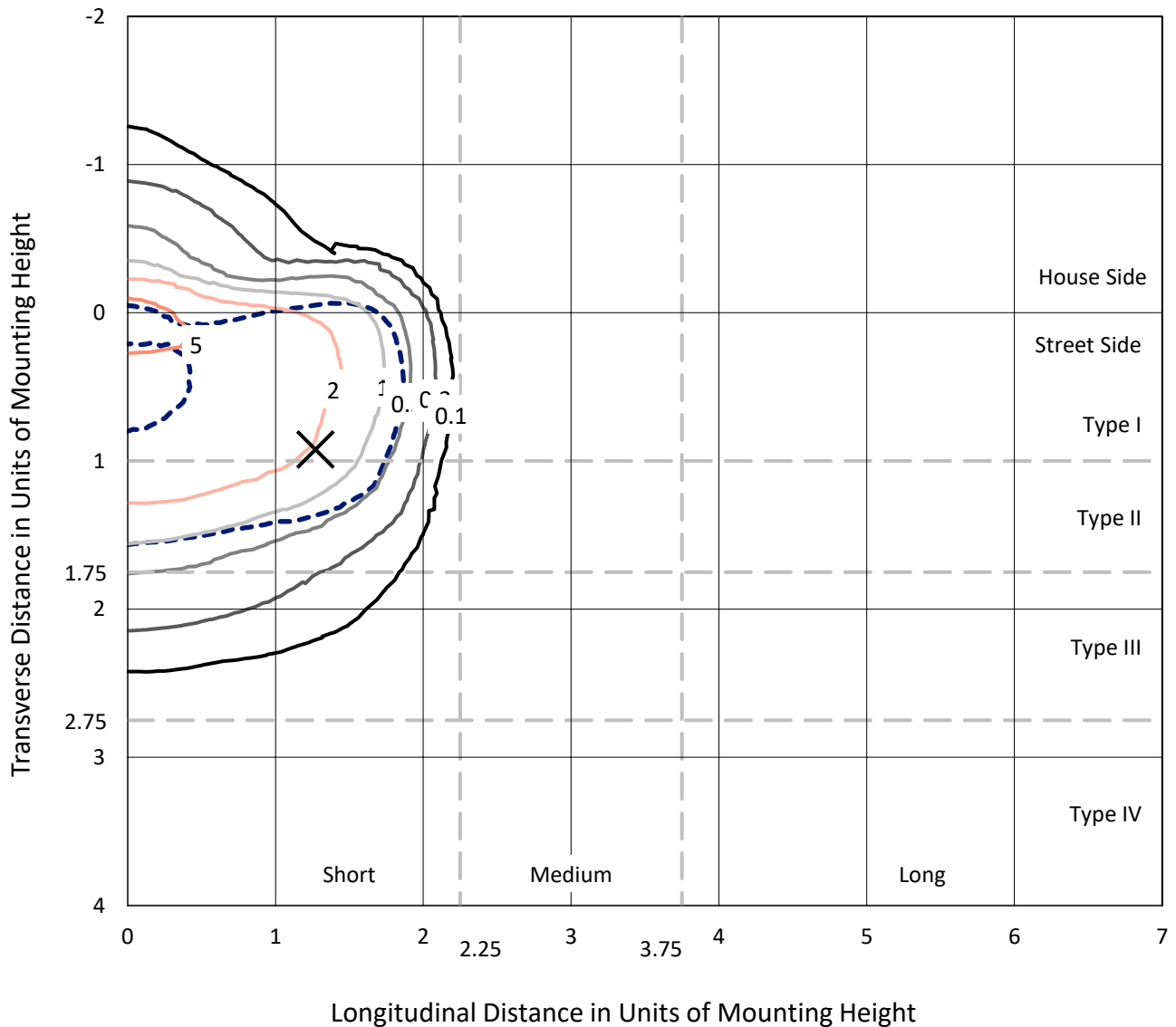
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

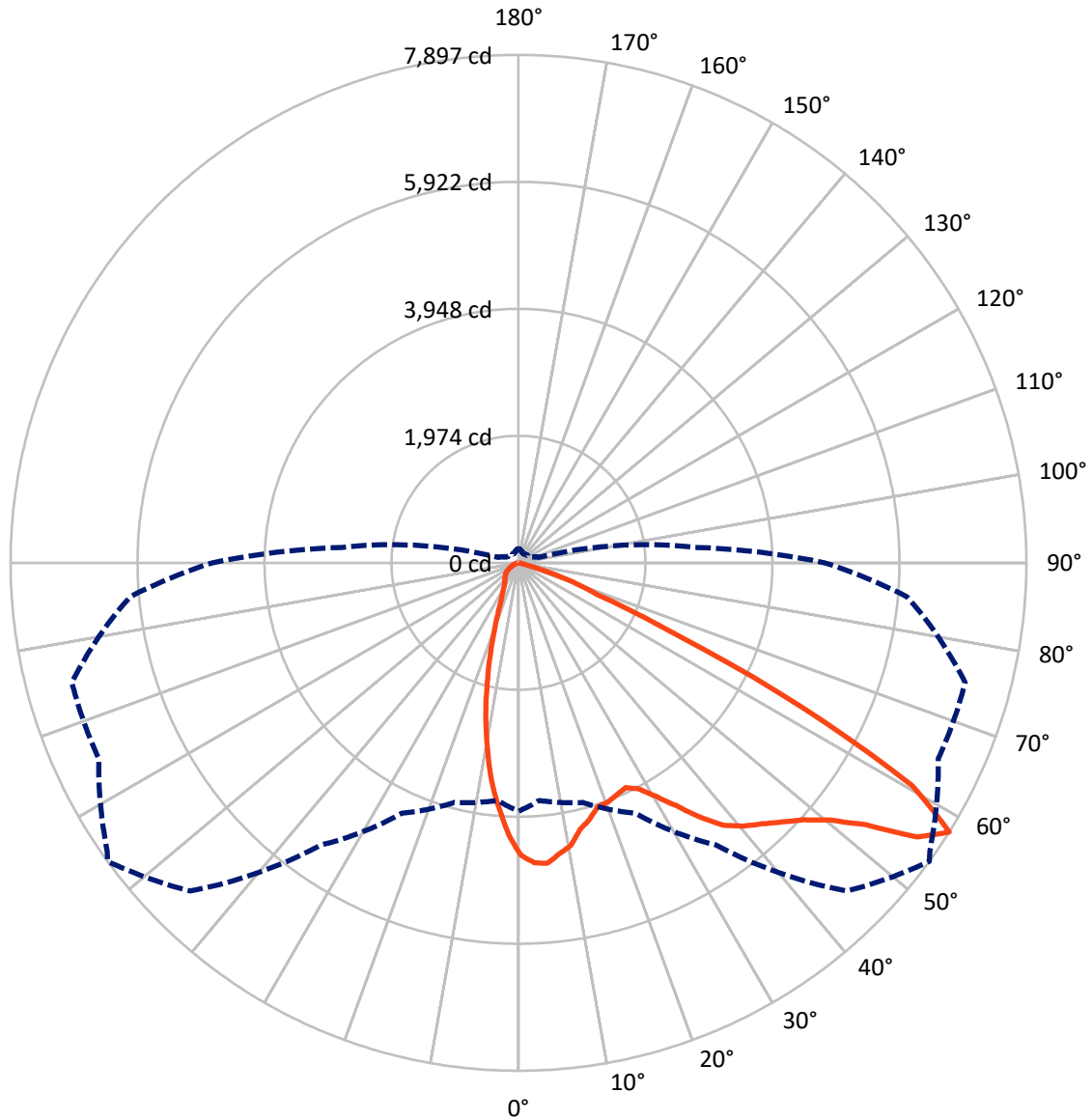
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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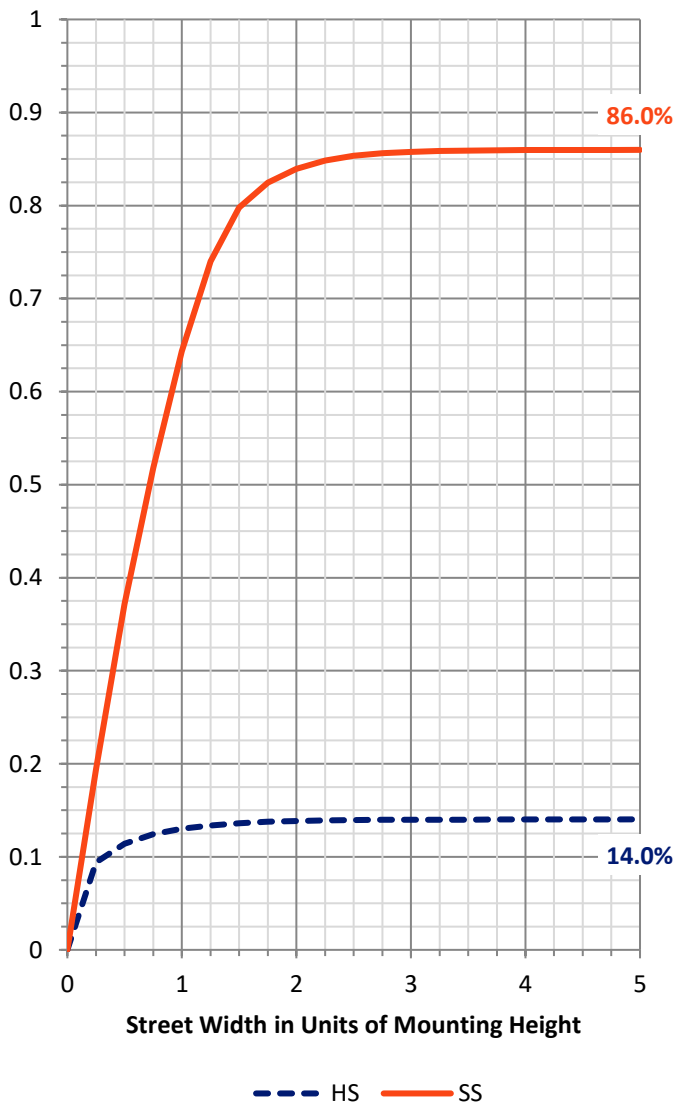
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1458.7	0.0	1458.7
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	8863.7	0.0	8863.7
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	10322.4	0.0	10322.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	380.5	3.7
10°-20°	812.4	7.9
20°-30°	1076.6	10.4
30°-40°	1564.6	15.2
40°-50°	2320.1	22.5
50°-60°	2901.1	28.1
60°-70°	1144.4	11.1
70°-80°	113.9	1.1
80°-90°	8.9	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°	10322.4	100.0
0°-180°	10322.4	100.0

**Coefficient of Utilization**



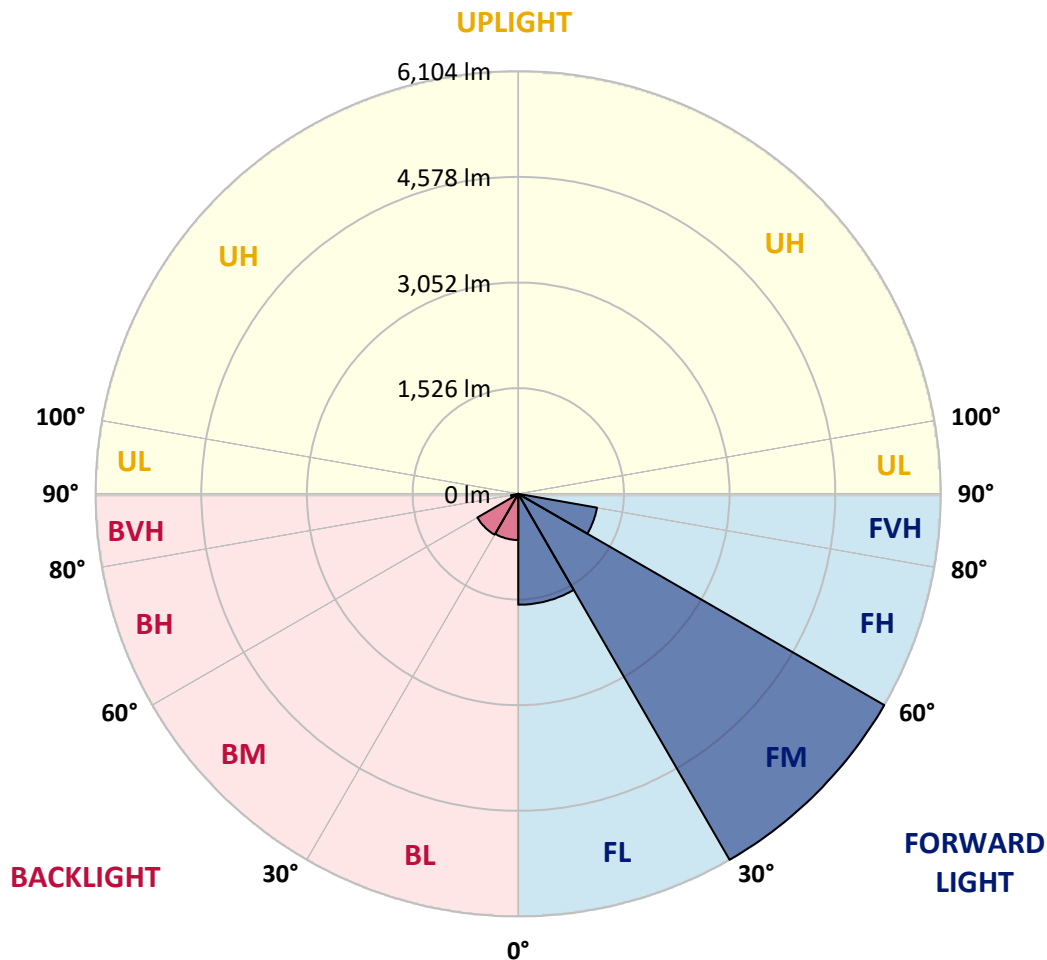
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1602.3	15.5			
FM (30°-60°)	6103.6	59.1			
FH (60°-80°)	1153.7	11.2			G1/1800
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	667.2	6.5	B2/1000		
BM (30°-60°)	682.1	6.6	B1/1000		
BH (60°-80°)	104.6	1.0	B0/110		G0/110
BVH (80°-90°)	4.8	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°	4547.2	4547.2	4547.2	4547.2	4547.2	4547.2	4547.2	4547.2	4547.2	4547.2	4547.2
2.5°	4812.0	4762.2	4765.9	4748.7	4725.7	4743.0	4668.1	4685.4	4683.4	4581.7	4514.6
5°	4691.1	4744.8	4689.2	4735.3	4691.1	4739.1	4693.0	4658.5	4602.9	4527.9	4403.2
7.5°	4485.7	4433.9	4449.3	4506.8	4516.4	4624.0	4566.4	4610.5	4587.5	4439.7	4268.8
10°	4073.0	4061.5	4138.3	4215.1	4309.2	4424.3	4468.5	4443.5	4426.3	4370.6	4142.2
12.5°	3756.3	3789.0	3787.1	3913.8	4073.0	4138.3	4253.5	4249.7	4345.6	4242.0	4023.2
15°	3455.0	3472.3	3552.9	3631.6	3808.2	3994.3	4136.4	4155.6	4270.8	4197.9	3931.0
17.5°	3270.7	3245.8	3309.2	3403.2	3583.6	3827.4	3984.7	4030.8	4188.3	4172.9	3825.5
20°	3088.4	3088.4	3140.2	3251.6	3416.6	3691.1	3971.4	3957.9	4188.3	4144.1	3712.2
22.5°	3026.9	3057.7	3071.1	3155.6	3351.4	3587.5	3913.8	3938.7	4220.9	4130.7	3662.3
25°	3111.4	3071.1	3074.9	3142.1	3326.4	3537.6	3871.5	3927.2	4280.4	4197.9	3622.0
27.5°	3124.8	3165.2	3176.7	3222.7	3345.6	3552.9	3977.1	4090.4	4428.2	4355.2	3633.5
30°	3242.0	3282.3	3280.3	3359.0	3443.5	3677.7	4213.2	4236.2	4733.3	4552.9	3704.5
32.5°	3384.0	3426.2	3439.7	3531.8	3599.0	3906.1	4501.1	4560.6	5027.0	4863.8	3890.7
35°	3560.5	3545.2	3606.6	3698.8	3842.7	4240.1	4852.4	4952.1	5343.7	5266.9	4082.6
37.5°	3781.3	3762.1	3821.6	3971.4	4167.2	4635.4	5176.8	5242.0	5574.1	5641.3	4437.8
40°	3936.8	3944.5	4124.9	4326.4	4533.7	5011.7	5382.1	5445.5	5735.3	5990.6	4706.5
42.5°	4195.9	4243.9	4460.8	4706.5	4923.4	5293.8	5549.1	5610.6	5810.1	6270.8	5069.3
45°	4572.1	4551.0	4790.9	5065.4	5305.4	5587.5	5746.8	5725.7	5854.3	6549.1	5297.7
47.5°	5055.8	5059.6	5219.0	5453.1	5702.7	5842.8	5967.6	5892.7	5946.5	6842.8	5602.8
50°	5385.9	5414.8	5543.4	5783.3	5908.0	6123.1	6282.4	6236.3	6219.0	7019.4	5794.8
52.5°	5470.5	5556.8	5625.9	5925.3	6217.1	6556.9	6760.3	6858.2	6551.1	7078.9	6038.5
55°	4833.1	4909.9	5153.7	5564.5	6334.2	7244.0	7524.3	7526.2	6984.8	7343.8	6209.4
57.5°	3863.8	3708.4	3858.1	4293.8	5355.2	7215.2	7896.6	7806.4	7201.7	7188.4	6061.6
60°	2671.9	2633.5	2643.1	2815.8	3706.5	5739.2	7036.7	7153.8	6631.7	6230.5	4798.6
62.5°	2117.1	2084.5	2042.3	2023.1	2301.4	3575.9	4963.7	5128.8	4637.4	4040.4	2844.6
65°	1658.4	1639.2	1645.0	1721.8	1719.8	2028.8	2714.1	2646.9	2119.1	1566.3	894.5
67.5°	1119.0	1147.8	1170.8	1403.1	1522.1	1412.7	1311.0	1272.6	689.1	289.8	197.7
70°	629.6	633.4	658.3	877.2	1155.5	1096.0	904.1	904.1	343.5	105.5	113.3
72.5°	343.5	332.0	309.1	378.1	514.4	522.1	403.1	351.3	101.8	69.1	63.3
75°	167.0	165.1	142.0	117.1	111.3	92.2	71.0	65.3	46.1	44.2	38.3
77.5°	34.6	32.6	17.2	17.2	19.2	21.1	26.9	26.9	32.6	32.6	26.9
80°	0.0	0.0	1.9	7.7	13.5	19.2	23.0	23.0	26.9	26.9	21.1
82.5°	0.0	0.0	1.9	5.7	11.5	17.2	21.1	23.0	26.9	28.8	23.0
85°	0.0	0.0	0.0	3.9	9.6	13.5	11.5	11.5	9.6	7.7	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°	4547.2	4547.2	4547.2	4547.2	4547.2	4547.2	4547.2	4547.2	4547.2	4547.2	4547.2
2.5°	4480.0	4476.1	4387.8	4338.0	4247.7	4169.0	4105.7	4059.6	4059.6	4030.8	4004.0
5°	4353.3	4320.6	4132.6	4011.7	3840.8	3714.1	3627.7	3560.5	3455.0	3483.8	3370.6
7.5°	4195.9	4113.4	3863.8	3679.5	3443.5	3263.1	3078.8	2915.7	2758.2	2687.2	2725.6
10°	4027.0	3883.1	3547.2	3255.3	2961.7	2631.6	2416.6	2155.6	1994.3	1984.7	1942.5
12.5°	3848.5	3685.3	3276.5	2873.4	2487.6	2090.3	1762.1	1518.3	1408.8	1287.9	1311.0
15°	3714.1	3472.3	2975.1	2489.5	1977.0	1575.9	1245.7	1057.6	953.9	925.2	915.6
17.5°	3568.3	3309.2	2668.1	2080.7	1550.9	1134.4	896.4	806.2	765.9	765.9	760.1
20°	3416.6	3124.8	2362.9	1700.7	1163.2	846.5	717.9	689.1	687.2	685.2	685.2
22.5°	3316.8	2913.7	2086.4	1351.3	877.2	677.6	623.9	612.3	620.0	643.0	643.0
25°	3211.3	2710.3	1781.2	1042.3	679.4	581.6	550.9	558.6	577.8	598.9	591.2
27.5°	3103.7	2577.8	1493.4	817.7	556.7	508.6	497.1	514.4	535.5	554.7	548.9
30°	3078.8	2435.8	1220.8	620.0	477.9	443.4	451.0	466.4	487.5	495.2	502.9
32.5°	3117.2	2324.4	1000.0	508.6	416.5	407.0	407.0	414.6	428.1	445.3	439.6
35°	3226.6	2261.1	790.8	441.4	382.0	372.4	370.5	378.1	385.9	391.6	385.9
37.5°	3393.6	2211.2	646.8	391.6	358.9	343.5	339.8	337.8	345.5	347.4	351.3
40°	3606.6	2238.1	548.9	360.9	335.9	318.7	307.1	307.1	307.1	312.9	314.8
42.5°	3837.0	2274.6	474.1	343.5	314.8	293.7	282.2	278.3	282.2	289.8	288.0
45°	4078.8	2345.5	426.1	316.7	295.6	268.7	253.4	249.5	259.1	274.5	272.6
47.5°	4305.3	2447.3	389.6	299.4	276.4	251.5	232.3	228.4	245.7	266.8	268.7
50°	4531.8	2623.9	376.2	286.0	263.0	234.1	216.9	213.0	232.3	259.1	264.9
52.5°	4792.9	2813.9	366.6	268.7	247.6	220.8	201.5	197.7	218.8	253.4	255.3
55°	4963.7	2975.1	358.9	238.0	218.8	199.7	184.3	182.3	205.4	236.1	243.8
57.5°	4764.1	2750.6	332.0	207.3	186.2	176.6	163.2	163.2	182.3	211.2	216.9
60°	3612.4	1810.0	236.1	167.0	157.4	151.6	145.9	145.9	161.2	182.3	184.3
62.5°	2115.2	975.1	151.6	134.4	134.4	128.6	119.0	119.0	134.4	145.9	147.8
65°	627.6	312.9	122.9	115.1	113.3	103.6	94.0	92.2	103.6	109.4	107.5
67.5°	180.4	144.0	101.8	96.0	94.0	78.7	72.9	71.0	72.9	69.1	67.2
70°	107.5	97.9	78.7	80.7	71.0	57.6	51.8	49.9	46.1	40.3	36.5
72.5°	59.5	59.5	57.6	61.4	49.9	38.3	32.6	26.9	21.1	17.2	15.4
75°	36.5	38.3	40.3	42.2	32.6	25.0	21.1	13.5	7.7	3.9	3.9
77.5°	25.0	26.9	28.8	30.7	26.9	23.0	17.2	9.6	1.9	0.0	0.0
80°	19.2	21.1	25.0	26.9	28.8	30.7	23.0	9.6	1.9	0.0	0.0
82.5°	21.1	23.0	28.8	26.9	26.9	26.9	21.1	9.6	1.9	0.0	0.0
85°	3.9	5.7	9.6	9.6	13.5	17.2	13.5	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)