

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: P651341

Luminaire Tested: **GALN-SA4D-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21063.7 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

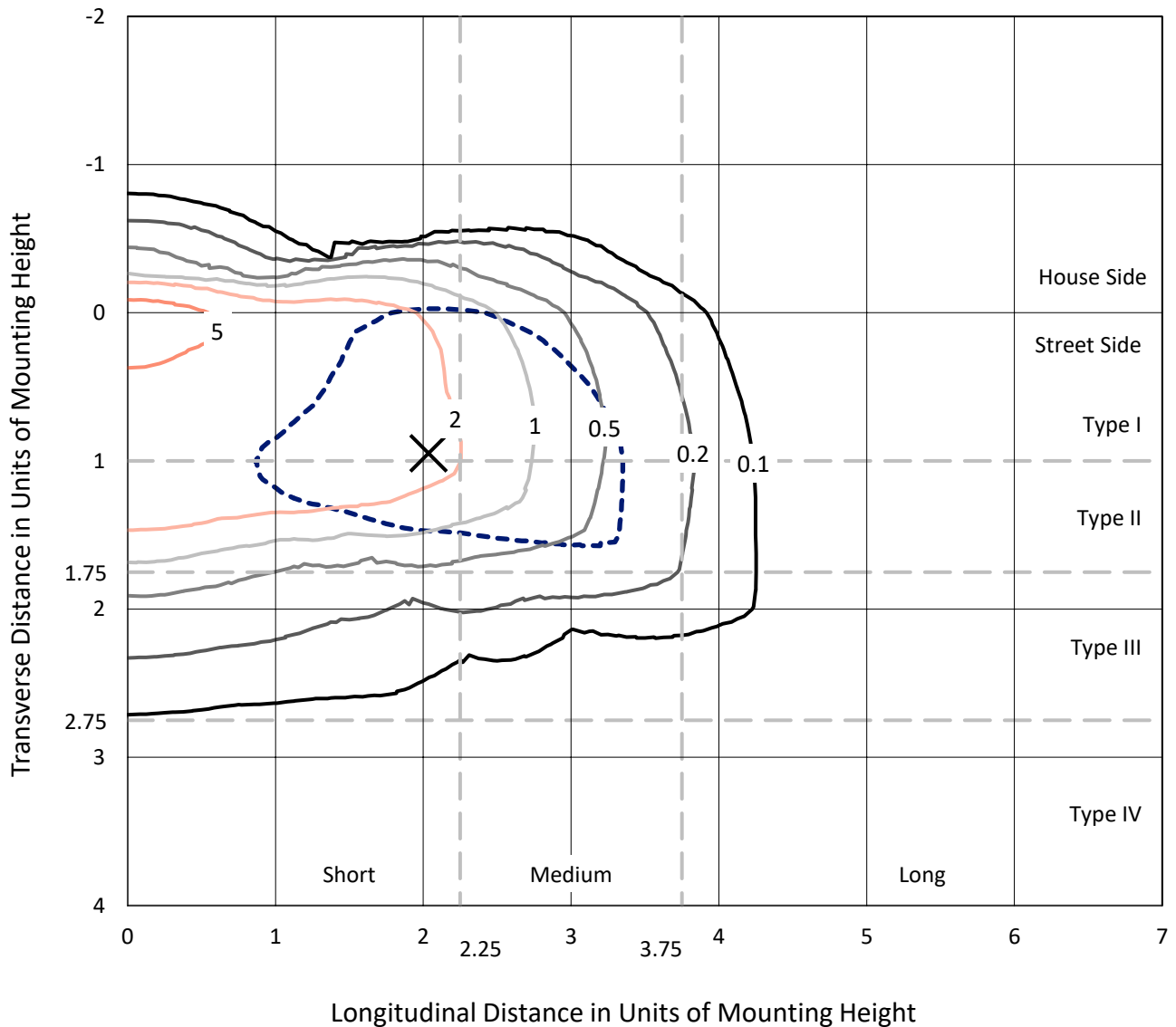
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

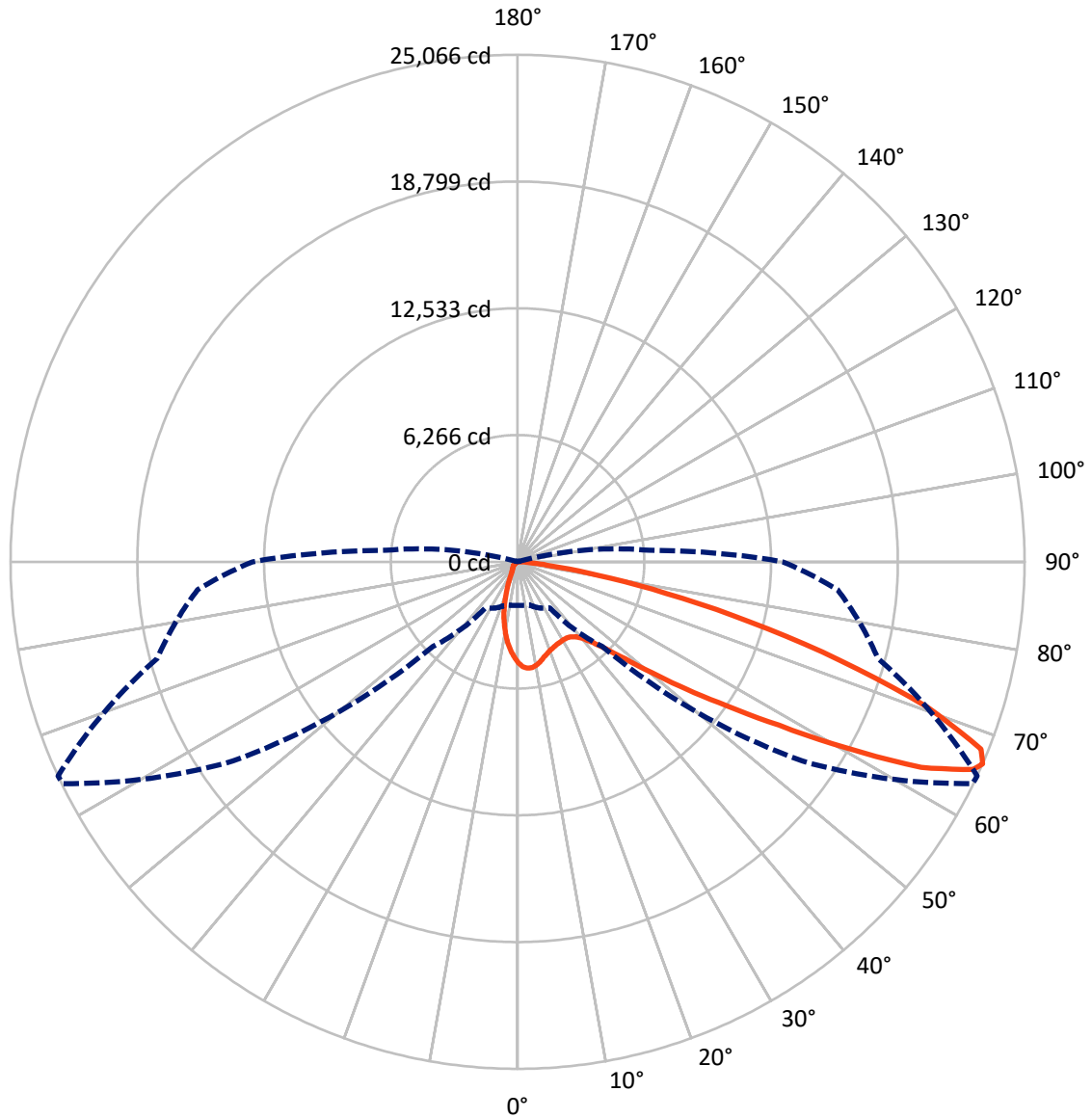
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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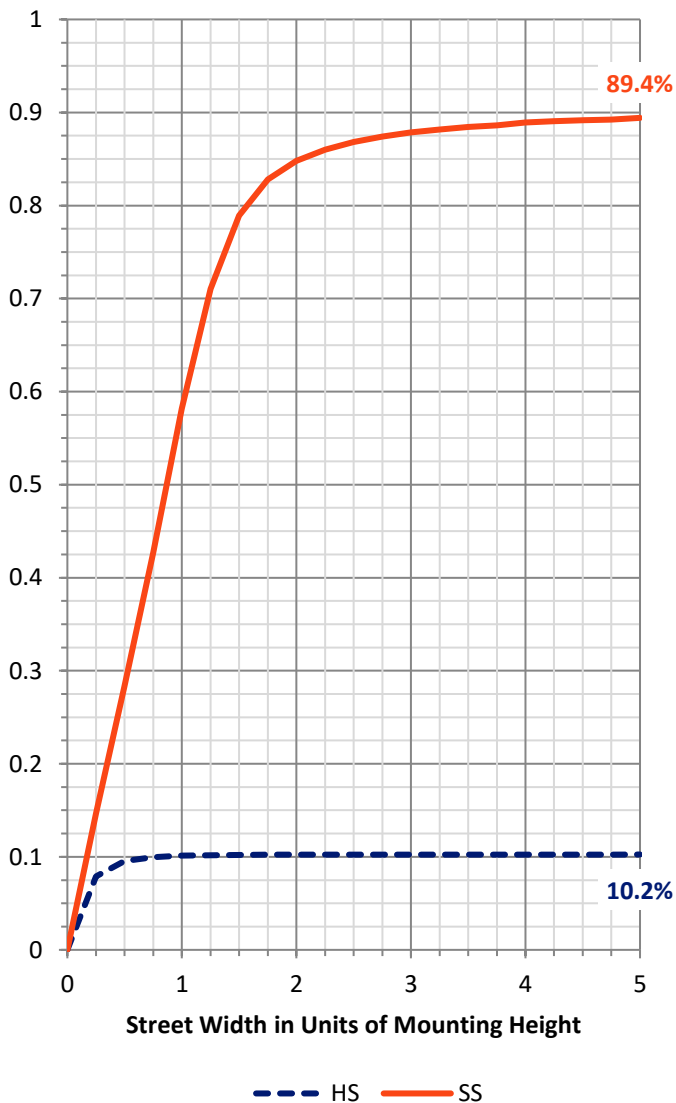
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2178.3	0.0	2178.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	18885.4	0.0	18885.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	21063.7	0.0	21063.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.5	1.9
10°-20°	890.1	4.2
20°-30°	1275.1	6.1
30°-40°	1862.3	8.8
40°-50°	3122.8	14.8
50°-60°	5211.4	24.7
60°-70°	5531.8	26.3
70°-80°	2505.3	11.9
80°-90°	256.4	1.2
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°	21063.7	100.0
0°-180°	21063.7	100.0

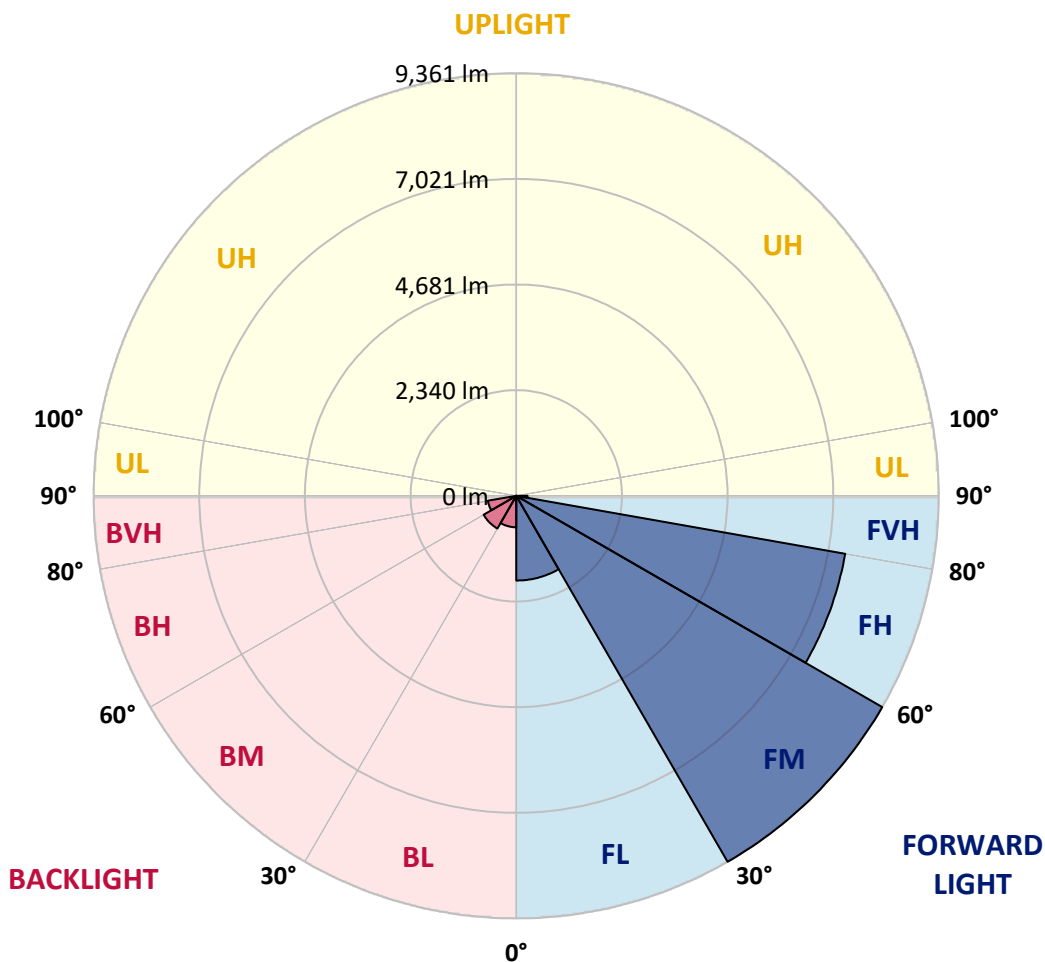


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1876.8	8.9			
FM (30°-60°)	9361.2	44.4			
FH (60°-80°)	7399.2	35.1			G3/7500
FVH (80°-90°)	248.2	1.2			G3/500
BL (0°-30°)	696.8	3.3	B2/1000		
BM (30°-60°)	835.4	4.0	B1/1000		
BH (60°-80°)	637.9	3.0	B2/1000		G2/1000
BVH (80°-90°)	8.2	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4995.0	4995.0	4995.0	4995.0	4995.0	4995.0	4995.0	4995.0	4995.0	4995.0	4995.0
2.5°	5263.8	5269.5	5276.7	5286.6	5293.8	5272.4	5242.5	5208.4	5201.2	5128.7	5040.5
5°	4982.2	4990.7	5053.3	5087.5	5164.2	5234.0	5278.1	5283.8	5280.9	5212.7	5071.8
7.5°	4581.0	4605.1	4666.4	4726.1	4869.8	5002.1	5158.6	5268.1	5275.3	5256.8	5081.7
10°	4255.2	4270.9	4302.1	4420.2	4539.7	4741.7	4960.8	5167.1	5184.2	5258.2	5073.2
12.5°	4000.6	4023.3	4061.7	4152.8	4296.4	4487.1	4736.1	5013.5	5049.0	5231.1	5049.0
15°	3822.7	3834.1	3872.5	3962.1	4101.6	4277.9	4529.8	4852.7	4884.0	5195.6	5044.7
17.5°	3738.7	3751.5	3778.6	3849.8	3965.0	4128.6	4374.7	4723.2	4763.1	5172.8	5060.4
20°	3761.5	3772.9	3774.3	3811.3	3889.5	4027.5	4260.8	4602.3	4653.5	5158.6	5086.0
22.5°	3891.0	3892.4	3875.3	3858.3	3885.3	3984.9	4191.2	4525.5	4578.2	5155.8	5115.9
25°	4084.5	4088.8	4060.3	4000.6	3946.5	3997.7	4175.5	4475.7	4522.6	5148.6	5134.4
27.5°	4351.9	4350.5	4342.0	4242.4	4088.8	4054.6	4188.3	4448.6	4488.5	5128.7	5141.5
30°	4726.1	4714.7	4696.2	4583.8	4349.1	4192.6	4242.4	4431.6	4468.6	5100.2	5123.0
32.5°	5094.5	5137.2	5134.4	5027.7	4734.7	4438.7	4354.8	4454.4	4481.4	5081.7	5096.0
35°	5524.2	5522.8	5632.3	5592.5	5249.6	4753.2	4546.9	4529.8	4551.1	5094.5	5083.2
37.5°	5922.6	5959.6	6130.3	6171.5	5858.6	5197.0	4818.6	4691.9	4699.1	5181.3	5114.5
40°	6419.1	6490.2	6744.8	6882.8	6606.9	5855.7	5219.8	4989.3	4990.7	5394.8	5232.5
42.5°	7059.3	7171.6	7409.2	7639.7	7491.7	6635.3	5821.6	5460.2	5457.3	5770.4	5502.8
45°	7837.4	7915.7	8186.0	8551.6	8457.8	7723.7	6697.9	6190.0	6153.0	6386.3	5982.3
47.5°	8509.0	8615.6	8890.2	9307.1	9733.9	9052.4	7745.0	7193.0	7168.8	7366.6	6804.6
50°	8802.0	8895.9	9184.7	9769.5	10803.7	10796.6	9304.2	8656.9	8615.6	8722.3	8076.5
52.5°	8480.5	8568.7	8860.4	9588.7	11307.3	12922.0	11563.4	10493.6	10443.8	10307.2	9595.9
55°	7379.4	7451.9	7882.9	8719.5	11113.9	14339.0	14676.2	12762.8	12569.2	12038.6	11315.9
57.5°	5875.6	5838.6	6106.1	7077.8	9978.5	14814.2	17871.5	15589.5	15243.9	13535.2	12771.3
60°	4071.7	4185.5	4293.6	4933.8	7503.1	13990.5	19859.0	19143.3	18688.1	15007.7	14165.5
62.5°	2993.3	3068.7	3139.8	3435.7	4717.6	11170.8	20210.4	22794.0	22389.9	16571.2	15495.7
65°	2367.3	2373.0	2401.5	2693.1	3108.5	7264.1	18521.7	24852.6	24748.7	18076.4	16034.8
66°	2156.7	2158.2	2202.3	2515.3	2789.8	5915.4	17168.8	25009.1	25065.9	18437.7	15876.9
67.5°	1885.0	1879.3	1943.4	2260.6	2540.9	4265.1	14747.4	24374.5	24711.7	18715.2	15309.3
70°	1461.1	1454.0	1532.2	1896.4	2340.3	2845.4	9802.2	20928.8	21472.2	18147.5	13545.2
72.5°	973.1	978.8	1112.6	1496.6	2233.6	2505.3	5896.9	15921.1	16689.3	14986.4	10655.7
75°	567.7	577.6	729.8	1112.6	1939.1	2388.7	3337.6	11352.8	11843.7	10348.5	6638.2
77.5°	297.4	301.6	408.3	734.1	1486.7	2218.0	2223.6	7252.8	7483.2	5029.1	2627.6
80°	157.9	153.7	219.1	442.5	1022.9	1947.6	1803.9	3839.8	3992.0	1493.8	664.4
82.5°	59.7	65.4	116.6	290.2	604.6	1398.5	1553.6	1697.2	1644.6	328.7	278.9
85°	11.4	14.2	49.8	172.2	304.4	584.7	1145.3	832.3	771.1	123.8	160.8
87.5°	1.4	2.9	14.2	41.3	44.1	197.7	338.6	230.4	199.1	45.5	66.9
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°	4995.0	4995.0	4995.0	4995.0	4995.0	4995.0	4995.0	4995.0	4995.0	4995.0	4995.0
2.5°	4997.8	4959.4	4831.4	4704.7	4575.3	4458.6	4379.0	4249.5	4216.8	4169.8	4142.8
5°	4987.9	4898.2	4652.1	4383.2	4132.8	3862.5	3656.2	3457.1	3350.4	3296.3	3276.4
7.5°	4959.4	4817.2	4433.0	4011.9	3610.7	3206.6	2855.3	2587.8	2415.7	2297.6	2218.0
10°	4902.5	4706.2	4178.3	3599.3	2993.3	2459.8	2014.5	1675.9	1414.1	1331.6	1334.5
12.5°	4844.2	4582.4	3893.8	3141.2	2390.0	1717.2	1244.8	977.4	852.2	810.9	802.4
15°	4790.1	4464.4	3615.0	2697.3	1779.7	1112.6	802.4	708.5	674.3	667.2	665.8
17.5°	4761.7	4354.8	3317.7	2189.5	1242.0	755.5	643.0	617.5	607.5	600.4	597.5
20°	4737.4	4259.5	3033.2	1714.3	849.3	618.9	576.2	552.0	535.0	527.8	523.5
22.5°	4720.4	4161.3	2738.6	1327.4	650.2	549.2	510.7	479.5	455.2	446.7	441.0
25°	4694.8	4053.2	2441.3	970.3	547.7	487.9	443.9	406.9	375.6	359.9	357.1
27.5°	4657.8	3930.8	2115.5	718.5	489.4	433.9	379.9	334.3	303.0	285.9	287.4
30°	4598.1	3802.7	1789.7	570.5	442.5	378.4	320.1	276.0	246.2	233.3	231.9
32.5°	4526.9	3647.8	1490.9	489.4	399.7	328.7	267.4	229.1	206.3	196.3	194.9
35°	4460.1	3491.2	1186.5	439.6	355.7	283.1	224.8	192.1	175.0	166.4	167.9
37.5°	4423.1	3351.8	924.8	399.7	320.1	243.3	193.5	165.0	149.4	142.3	140.9
40°	4447.3	3238.0	735.5	364.2	280.3	209.2	166.4	142.3	126.7	116.6	116.6
42.5°	4561.1	3188.2	593.2	330.1	243.3	180.6	145.1	122.4	105.3	95.3	96.7
45°	4908.2	3240.8	496.5	298.7	209.2	156.5	125.2	101.0	85.4	78.2	76.8
47.5°	5484.4	3438.6	429.7	266.0	179.2	133.7	105.3	83.9	68.3	62.6	61.1
50°	6491.6	3846.9	379.9	233.3	152.2	113.8	86.8	66.9	54.1	48.4	48.4
52.5°	7877.3	4737.4	344.3	196.3	128.0	96.7	71.1	54.1	42.6	38.4	37.0
55°	9325.6	5676.4	325.8	165.0	106.7	79.6	56.9	42.6	32.7	28.4	27.0
57.5°	10718.4	6413.4	304.4	133.7	85.4	61.1	44.1	32.7	22.8	19.9	18.5
60°	12054.2	7009.5	258.9	106.7	66.9	44.1	32.7	22.8	15.6	12.8	12.8
62.5°	13249.3	7356.6	203.4	85.4	51.2	31.3	21.4	17.1	11.4	8.5	8.5
65°	13388.7	6905.6	153.7	65.4	37.0	19.9	12.8	12.8	8.5	5.7	5.7
66°	13108.4	6522.9	135.1	59.7	32.7	17.1	11.4	9.9	7.1	4.3	4.3
67.5°	12482.5	5869.9	116.6	51.2	27.0	12.8	8.5	8.5	5.7	2.9	2.9
70°	10785.2	4794.4	92.5	38.4	19.9	9.9	5.7	5.7	4.3	2.9	2.9
72.5°	8220.2	3579.5	75.4	28.4	14.2	7.1	4.3	4.3	4.3	2.9	2.9
75°	4957.9	1927.7	58.4	21.4	12.8	5.7	2.9	4.3	5.7	4.3	2.9
77.5°	1826.7	655.8	45.5	17.1	9.9	5.7	2.9	2.9	5.7	4.3	4.3
80°	448.2	170.7	32.7	14.2	9.9	5.7	2.9	2.9	5.7	5.7	5.7
82.5°	207.7	72.6	22.8	12.8	9.9	5.7	2.9	2.9	4.3	5.7	5.7
85°	119.5	34.1	18.5	14.2	9.9	5.7	2.9	2.9	4.3	5.7	5.7
87.5°	48.4	17.1	17.1	14.2	11.4	7.1	2.9	2.9	2.9	4.3	4.3
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)