

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: P651148

Luminaire Tested: **GALN-SA9C-840-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39352.9 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

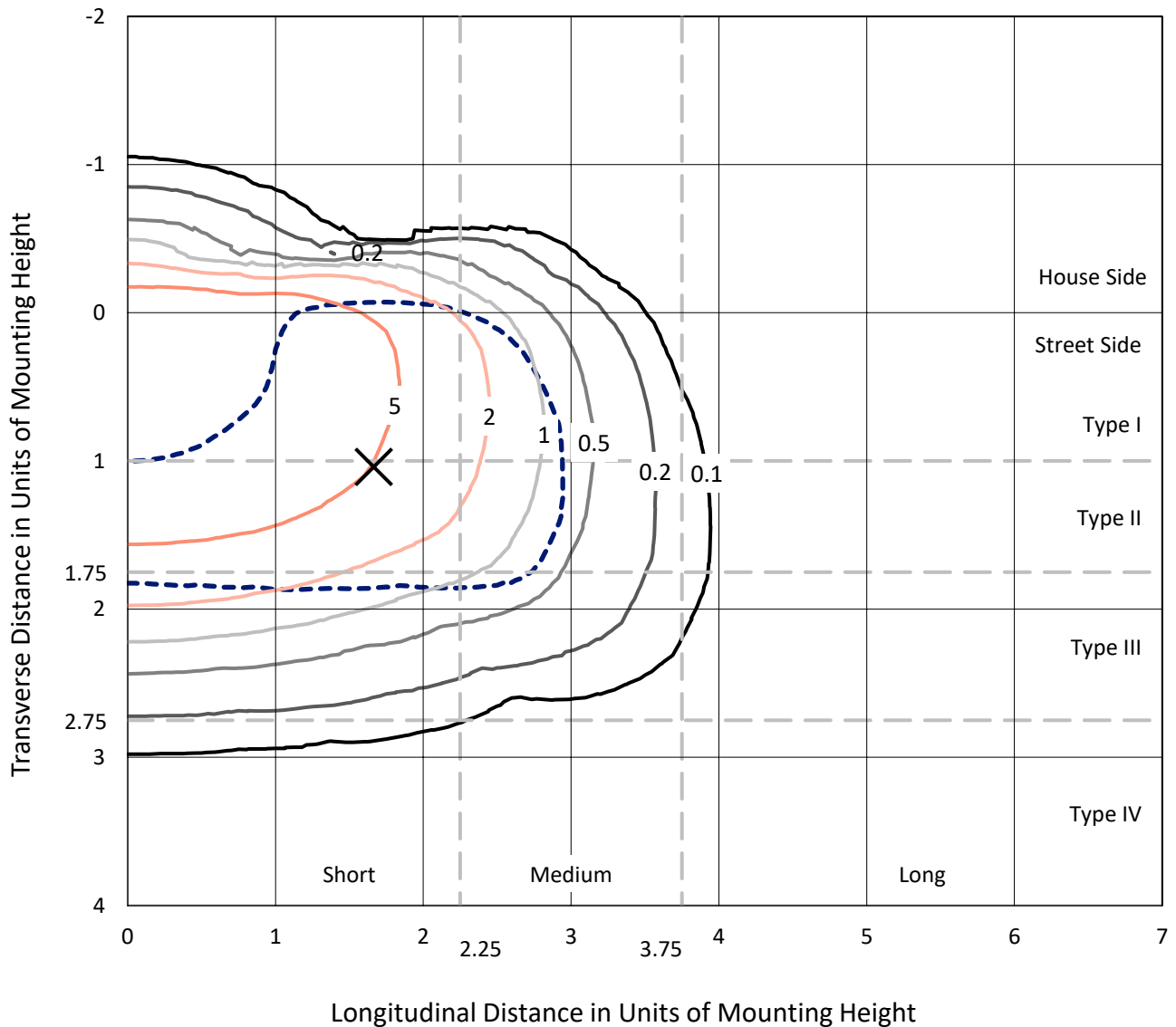
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

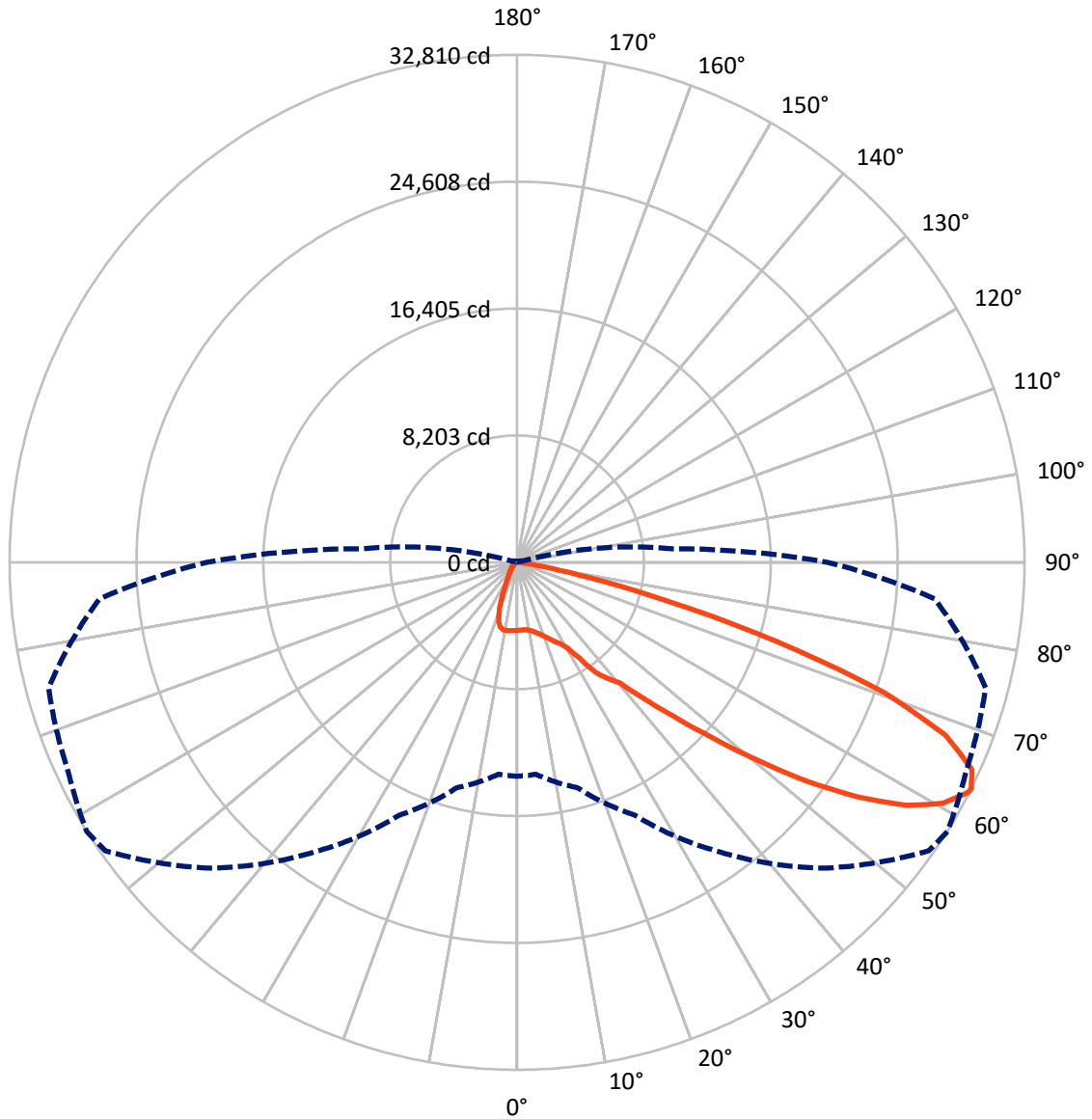
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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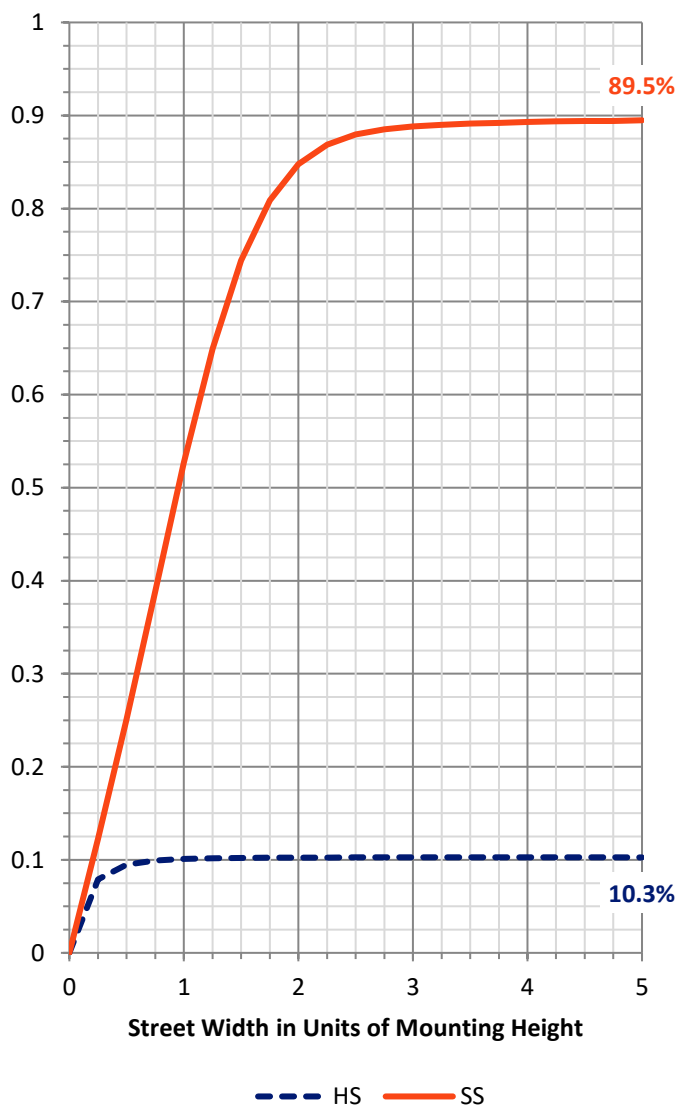
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4074.7	0.0	4074.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	35278.2	0.0	35278.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	39352.9	0.0	39352.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.4	1.0
10°-20°	1123.3	2.9
20°-30°	1949.6	5.0
30°-40°	3582.6	9.1
40°-50°	6744.1	17.1
50°-60°	11535.3	29.3
60°-70°	11045.1	28.1
70°-80°	2816.5	7.2
80°-90°	144.0	0.4
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°	39352.9	100.0
0°-180°	39352.9	100.0

Coefficient of Utilization



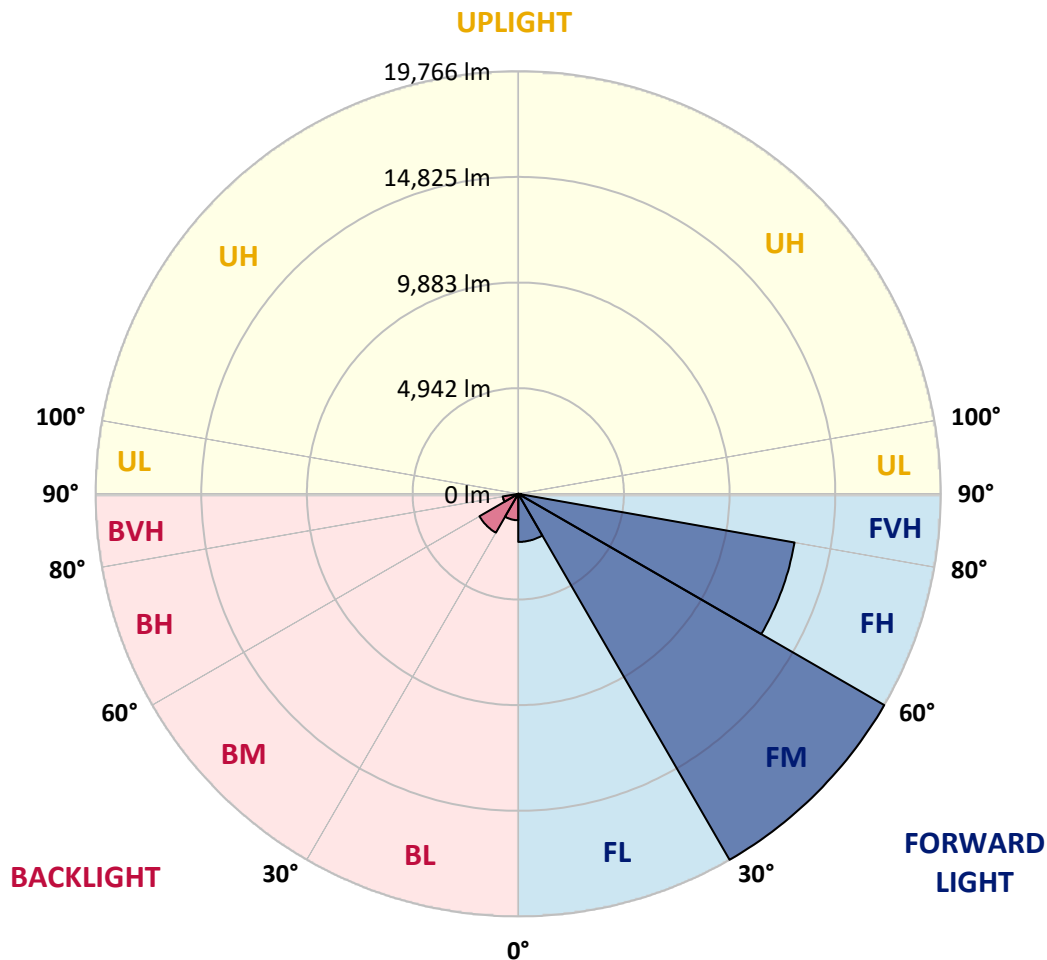
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2249.6	5.7			
FM (30°-60°)	19766.2	50.2			
FH (60°-80°)	13124.0	33.3			G5
FVH (80°-90°)	138.4	0.4			G2/225
BL (0°-30°)	1235.7	3.1	B3/2500		
BM (30°-60°)	2095.8	5.3	B2/2500		
BH (60°-80°)	737.6	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4405.7	4405.7	4405.7	4405.7	4405.7	4405.7	4405.7	4405.7	4405.7	4405.7	4405.7
2.5°	4296.1	4310.9	4325.7	4331.7	4352.3	4373.1	4387.9	4385.0	4408.7	4420.5	4420.5
5°	4124.3	4124.3	4162.8	4198.3	4257.6	4316.9	4373.1	4385.0	4429.4	4470.9	4485.7
7.5°	3979.0	3987.9	4017.5	4082.8	4162.8	4266.5	4379.1	4405.7	4482.8	4574.6	4613.1
10°	3910.9	3916.9	3955.4	4023.5	4124.3	4266.5	4423.5	4473.9	4592.4	4737.5	4790.8
12.5°	3896.1	3905.0	3943.5	4020.6	4136.1	4307.9	4521.3	4574.6	4746.4	4933.1	5013.1
15°	3922.8	3928.7	3967.2	4050.2	4177.6	4382.0	4651.7	4725.7	4930.1	5146.4	5250.1
17.5°	4017.5	4011.7	4038.3	4106.4	4248.6	4473.9	4808.7	4897.6	5137.5	5433.8	5502.0
20°	4420.5	4382.0	4358.3	4299.0	4355.4	4604.2	4998.3	5128.7	5425.0	5727.1	5774.6
22.5°	5288.6	5202.7	5033.8	4802.7	4625.0	4782.0	5226.4	5377.5	5759.8	6056.0	6056.0
25°	6393.8	6284.1	6115.2	5611.6	5176.0	5075.3	5484.2	5673.8	6124.2	6423.4	6325.6
27.5°	7777.4	7691.4	7362.6	6775.9	6109.4	5587.9	5783.4	5958.2	6447.1	6808.6	6604.1
30°	8903.2	8861.8	8592.2	8067.7	7333.0	6571.5	6340.5	6456.0	6876.7	7294.5	7084.1
32.5°	9854.3	9854.3	9578.8	9089.9	8402.5	7727.0	7285.6	7368.5	7771.5	8254.4	7863.4
35°	10900.2	10864.6	10642.4	10177.3	9406.9	8811.4	8630.7	8743.3	9107.7	9466.2	8503.3
37.5°	11999.4	11987.5	11756.4	11306.2	10678.0	9928.4	9504.7	9534.3	9721.0	9940.3	9252.9
40°	13193.4	13211.2	12909.0	12630.5	12037.9	11270.6	10458.8	10272.1	10446.9	11066.1	10636.5
42.5°	14603.7	14562.3	14431.9	14052.6	13575.7	13116.4	12141.6	12073.5	12227.6	12891.2	12426.0
45°	16242.1	16301.4	16076.2	15865.9	15545.9	15163.7	14348.9	14230.4	14399.3	15430.3	14769.6
47.5°	17883.6	17827.3	17972.4	17933.9	18105.8	17821.4	17101.4	16858.4	17264.3	18242.0	17270.3
50°	19133.8	19196.1	19498.3	19939.8	20677.5	20837.5	20147.2	20064.2	20245.0	20873.0	19507.2
52.5°	19945.7	20153.1	20627.1	21761.9	23092.2	24126.2	23601.8	23557.3	23483.3	23652.2	21646.3
55°	20476.1	20686.4	21305.6	22976.6	25266.9	26946.8	26973.5	26783.9	26295.0	26173.5	23646.2
57.5°	20150.1	20191.6	21074.5	23308.5	26472.7	28958.6	29829.7	29640.0	28736.4	28277.1	25412.1
60°	18111.7	18197.6	19427.2	22052.3	25948.4	29616.3	31722.9	31637.0	30647.4	30128.9	26786.9
62.5°	14500.0	14748.9	16014.1	18941.3	23510.0	28508.2	32490.3	32733.2	31962.9	31248.9	27219.4
63°	13836.4	13756.4	15092.6	18034.7	22864.1	27960.1	32502.1	32810.3	32022.2	31355.5	27100.9
65°	10242.5	10482.5	11350.6	14221.6	19027.2	25409.1	31770.3	32315.4	31802.9	30884.4	25788.3
67.5°	5750.8	5739.0	6698.9	9306.3	13317.9	19930.9	28727.5	29880.1	29773.3	27714.2	21376.7
70°	2814.7	2859.1	3253.2	4823.5	7724.1	13750.4	23871.4	25115.8	25154.3	21767.9	14781.5
72.5°	1274.0	1294.7	1576.2	2349.5	3970.2	7321.2	16449.5	17637.6	17418.4	13871.9	8162.6
75°	672.5	717.0	868.1	1182.2	1913.9	3019.1	8947.7	10097.3	9638.0	6337.4	3004.3
77.5°	497.8	512.6	589.6	752.5	1025.1	1176.2	3860.5	4592.4	4302.1	2293.2	995.5
80°	364.4	376.3	438.5	533.3	645.9	598.5	1454.8	1668.0	1496.2	779.2	305.2
82.5°	222.2	225.1	320.0	397.0	405.9	334.8	480.0	515.5	539.2	438.5	165.9
85°	80.0	100.8	216.3	287.4	240.0	168.9	201.5	222.2	243.0	278.5	97.8
87.5°	8.9	11.9	103.7	139.3	68.1	62.2	74.1	82.9	88.9	103.7	47.4
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°	4405.7	4405.7	4405.7	4405.7	4405.7	4405.7	4405.7	4405.7	4405.7	4405.7	4405.7
2.5°	4432.4	4444.3	4435.3	4420.5	4417.5	4408.7	4390.9	4390.9	4390.9	4396.8	4390.9
5°	4497.6	4506.4	4485.7	4456.0	4423.5	4382.0	4337.5	4310.9	4307.9	4302.1	4287.2
7.5°	4622.0	4633.8	4586.5	4515.3	4426.4	4325.7	4230.9	4142.0	4100.5	4067.9	4067.9
10°	4802.7	4814.6	4719.8	4592.4	4414.6	4210.1	3985.0	3780.5	3620.6	3546.5	3528.8
12.5°	5019.0	5025.0	4867.9	4645.7	4352.3	3958.3	3478.4	3031.0	2719.9	2577.7	2562.9
15°	5256.0	5214.5	5007.1	4666.5	4174.6	3439.9	2610.2	2062.1	1739.2	1644.3	1679.9
17.5°	5496.0	5419.0	5113.8	4633.8	3774.7	2610.2	1754.0	1407.3	1306.6	1279.9	1279.9
20°	5721.2	5614.5	5190.8	4491.6	3081.3	1798.4	1300.7	1217.7	1199.9	1182.2	1185.1
22.5°	5946.4	5783.4	5259.0	4174.6	2296.2	1285.9	1164.4	1137.7	1114.0	1090.4	1087.3
25°	6165.6	5940.5	5285.7	3588.0	1564.3	1105.2	1063.6	1028.1	980.7	954.0	948.1
27.5°	6393.8	6130.0	5267.9	2847.3	1140.6	989.6	948.1	897.8	841.4	794.1	794.1
30°	6832.3	6491.5	5205.7	2047.3	959.9	871.1	817.7	737.7	675.5	628.1	625.1
32.5°	7430.7	6962.6	4992.3	1440.0	853.3	767.3	687.3	598.5	533.3	497.8	497.8
35°	7964.0	7436.7	4592.4	1060.7	767.3	666.7	568.9	482.9	432.6	408.9	400.0
37.5°	8775.8	8129.9	4041.3	862.2	684.4	577.8	477.0	397.0	355.6	337.7	337.7
40°	9993.6	8977.3	3365.8	755.6	604.4	491.8	397.0	334.8	302.2	281.5	281.5
42.5°	11504.6	10014.3	2681.4	678.5	530.3	423.7	331.9	284.4	254.8	240.0	237.0
45°	13406.7	11107.6	2065.1	607.4	471.1	361.5	281.5	240.0	210.3	201.5	204.4
47.5°	15391.8	12070.5	1599.9	545.1	408.9	305.2	240.0	207.4	186.6	174.8	174.8
50°	17086.6	12734.2	1214.7	474.1	361.5	257.8	210.3	186.6	168.9	163.0	160.0
52.5°	18502.8	12926.8	930.3	411.8	317.1	222.2	186.6	168.9	154.1	145.2	145.2
55°	19708.7	12757.9	728.9	346.7	266.7	192.6	165.9	151.1	133.3	124.5	121.4
57.5°	20413.8	12215.7	557.0	287.4	216.3	160.0	145.2	127.4	106.6	91.8	91.8
60°	20769.3	11427.6	426.6	237.0	165.9	127.4	118.5	94.8	74.1	62.2	59.3
62.5°	20342.7	10381.7	322.9	186.6	124.5	94.8	80.0	68.1	47.4	35.6	35.6
63°	20079.0	10079.5	311.1	177.8	115.6	88.9	74.1	62.2	41.5	32.6	29.6
65°	18304.3	8761.0	254.8	142.2	91.8	62.2	50.4	44.4	29.6	14.8	11.9
67.5°	14535.6	6701.9	201.5	106.6	65.2	44.4	29.6	26.7	8.9	0.0	0.0
70°	9827.7	4328.7	157.0	77.0	44.4	26.7	14.8	11.9	2.9	0.0	0.0
72.5°	5125.6	2219.1	121.4	56.3	26.7	17.7	8.9	2.9	0.0	0.0	0.0
75°	1813.3	755.6	88.9	35.6	17.7	8.9	2.9	0.0	0.0	0.0	0.0
77.5°	548.1	281.5	56.3	26.7	11.9	5.9	0.0	0.0	0.0	0.0	0.0
80°	192.6	103.7	32.6	17.7	8.9	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	94.8	50.4	20.8	14.8	8.9	2.9	0.0	0.0	0.0	0.0	0.0
85°	53.3	32.6	17.7	14.8	8.9	5.9	0.0	0.0	0.0	0.0	0.0
87.5°	38.5	23.7	17.7	14.8	11.9	5.9	2.9	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)