

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: P533677

Luminaire Tested: **GALN-SA9A-760-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-760-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24757 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

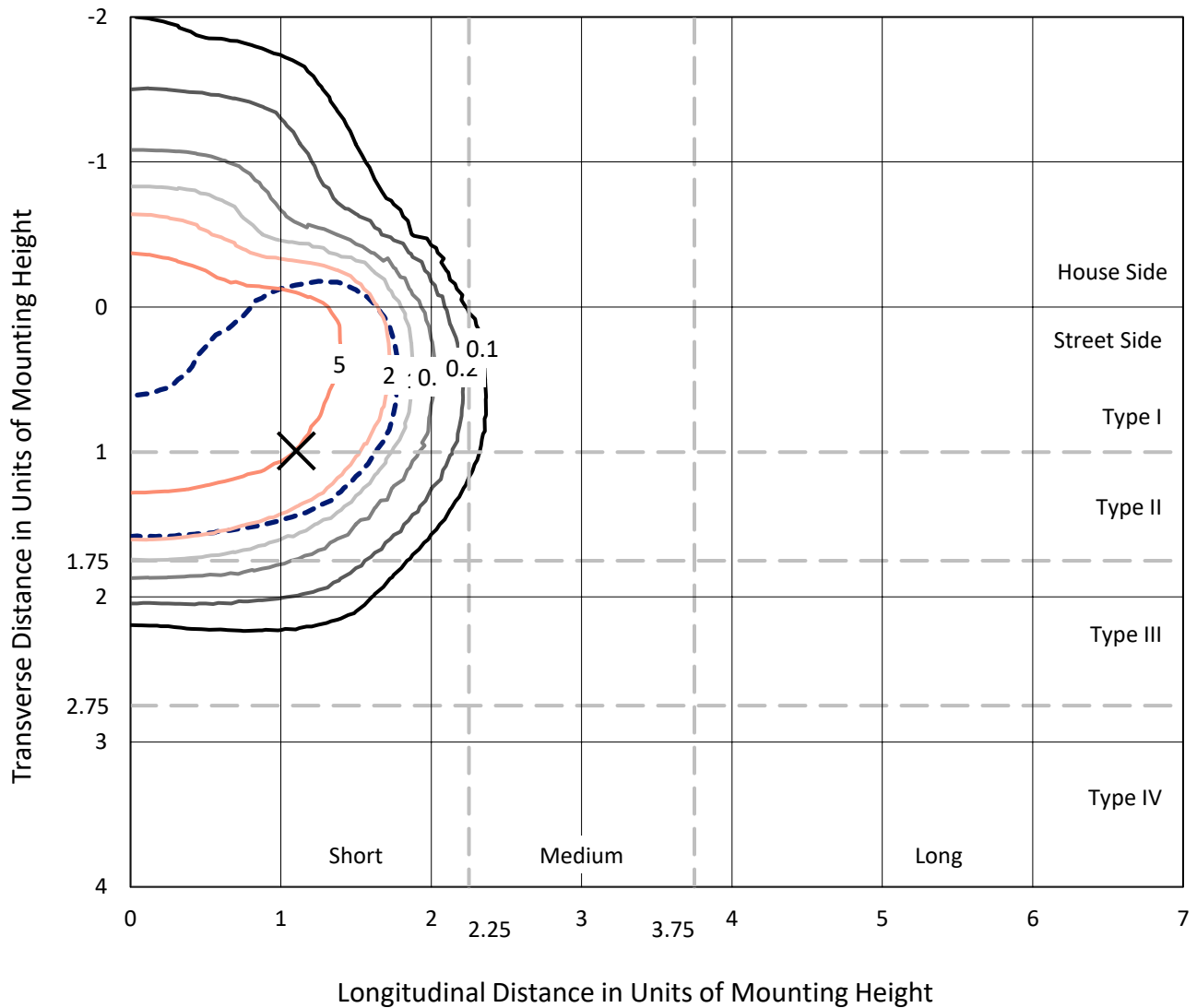
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

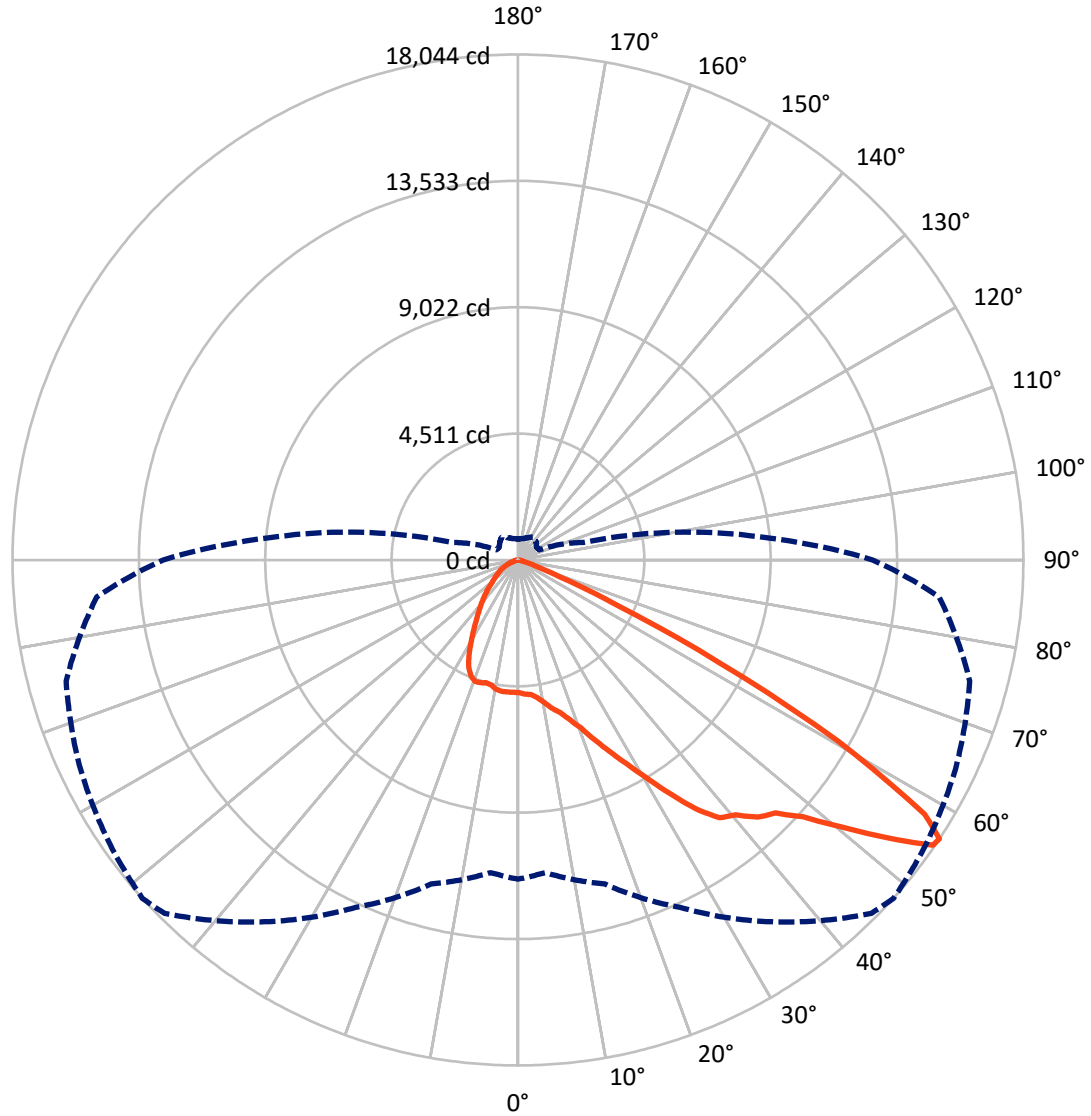
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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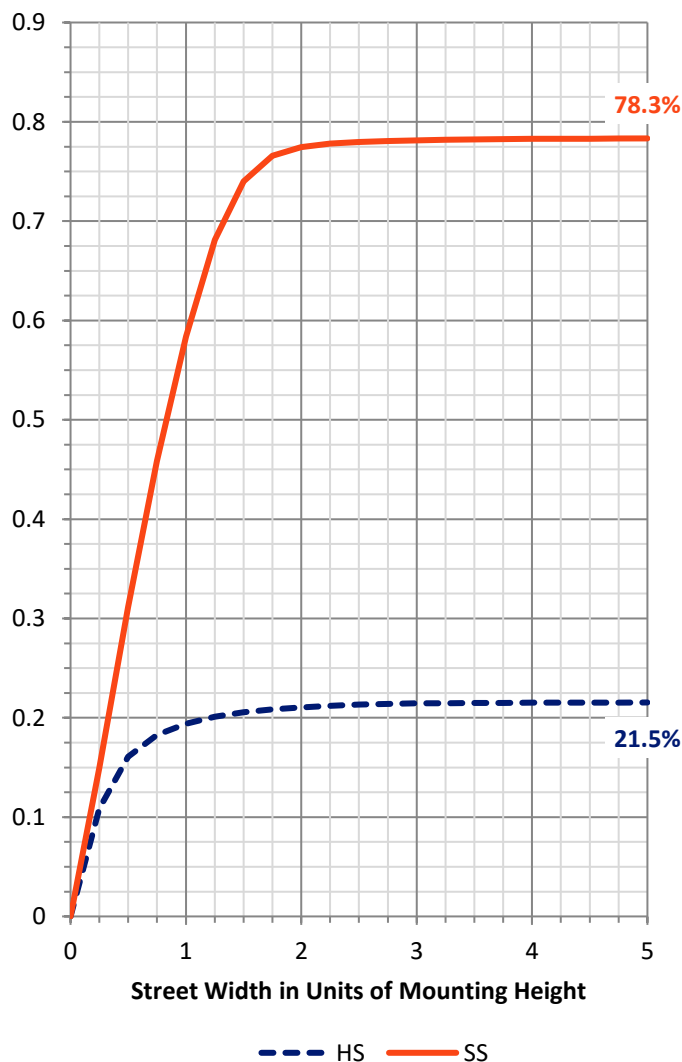
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5384.2	0.0	5384.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	19372.8	0.0	19372.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	24757.0	0.0	24757.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.6	1.9
10°-20°	1472.1	5.9
20°-30°	2670.0	10.8
30°-40°	4194.0	16.9
40°-50°	6118.4	24.7
50°-60°	7371.4	29.8
60°-70°	2158.3	8.7
70°-80°	273.8	1.1
80°-90°	38.4	0.2
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°	24757.0	100.0
0°-180°	24757.0	100.0

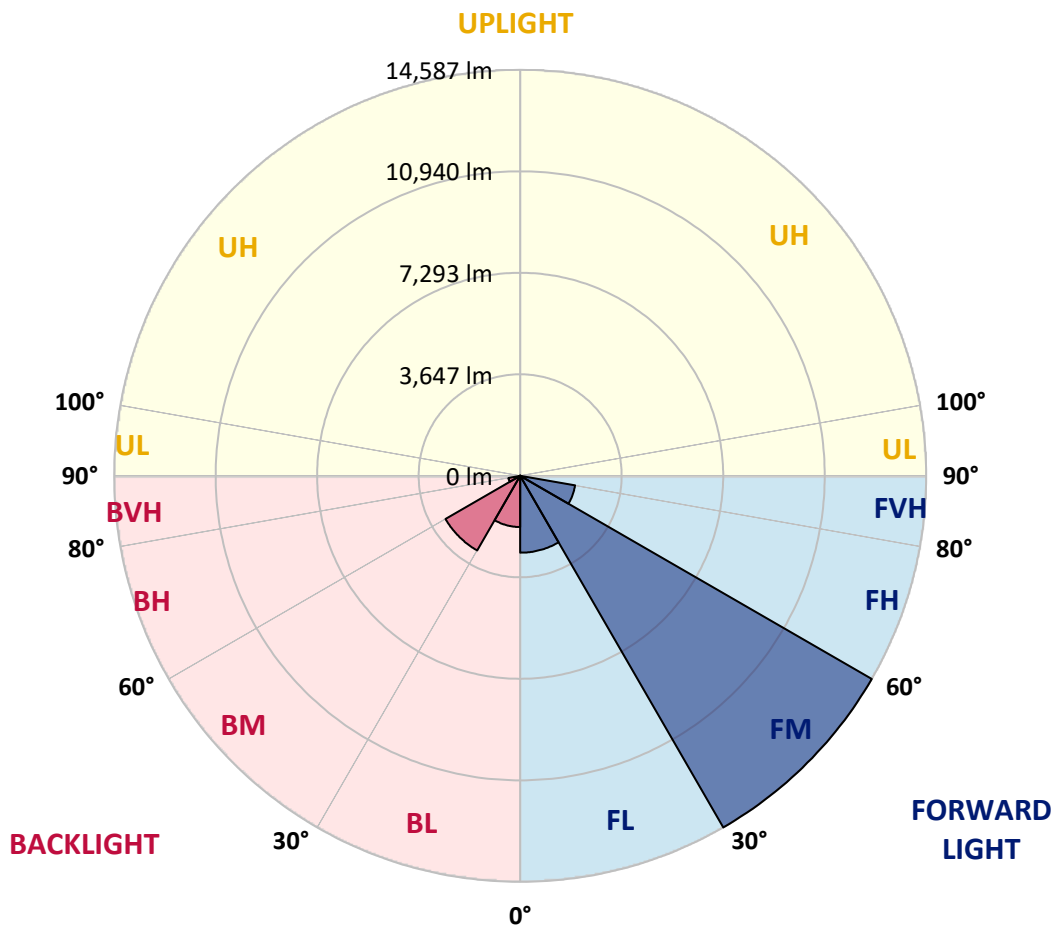


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2762.4	11.2			
FM (30°-60°)	14586.9	58.9			
FH (60°-80°)	2004.3	8.1			G2/5000
FVH (80°-90°)	19.3	0.1			G1/100
BL (0°-30°)	1840.3	7.4	B3/2500		
BM (30°-60°)	3097.0	12.5	B3/5000		
BH (60°-80°)	427.8	1.7	B1/500		G1/500
BVH (80°-90°)	19.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6
2.5°	4814.2	4791.7	4791.7	4755.6	4796.2	4778.2	4791.7	4746.6	4791.7	4724.1	4778.2
5°	4836.8	4841.3	4823.3	4845.8	4845.8	4872.8	4827.8	4868.3	4890.9	4841.3	4818.8
7.5°	4954.0	4963.0	4958.5	4940.5	4976.5	4972.0	4967.5	4936.0	4945.0	4926.9	4899.9
10°	5183.9	5179.4	5201.9	5156.8	5129.8	5161.3	5170.4	5120.8	5084.7	5071.2	4985.5
12.5°	5517.4	5463.4	5431.8	5386.7	5400.2	5355.2	5436.3	5350.7	5332.6	5251.5	5165.8
15°	5787.9	5778.9	5783.4	5711.3	5630.1	5648.2	5648.2	5603.1	5576.0	5476.9	5355.2
17.5°	6342.4	6153.0	6193.6	6103.5	6035.8	6031.3	5990.8	5999.8	5927.7	5720.3	5535.5
20°	6775.1	6694.0	6630.9	6477.6	6373.9	6405.5	6387.4	6342.4	6319.8	6049.4	5787.9
22.5°	7162.8	7189.8	7086.1	7045.6	6901.3	6914.8	6950.9	6910.3	6739.0	6459.6	6071.9
25°	7708.2	7676.6	7536.9	7487.3	7352.1	7401.7	7541.4	7509.9	7401.7	6896.8	6292.8
27.5°	8352.8	8244.6	8271.7	8046.3	7915.6	8055.3	8222.1	8379.9	8073.3	7410.7	6554.2
30°	8808.1	8695.4	8686.4	8677.4	8645.8	8808.1	9001.9	9146.2	8898.2	7924.6	6987.0
32.5°	9033.5	9060.5	9137.1	9110.1	9385.1	9718.6	9921.5	10128.8	9817.8	8763.0	7559.4
35°	9633.0	9461.7	9633.0	9651.0	9935.0	10642.7	10899.7	11395.5	11318.9	9948.5	8258.1
37.5°	9984.6	9971.1	9993.6	10164.9	10439.9	11314.4	11679.5	12062.7	11918.4	10660.8	9128.1
40°	10566.1	10602.2	10597.6	10728.4	11030.4	11819.2	11968.0	12279.0	12292.6	11647.9	10408.3
42.5°	11499.2	11354.9	11260.3	11395.5	11819.2	12256.5	12554.0	12490.9	12937.2	12847.0	12053.6
45°	12337.6	12423.3	12283.5	12508.9	12662.2	12896.6	12887.6	13022.8	13590.8	14019.0	13293.3
47.5°	13122.0	13176.1	13243.7	13396.9	13730.5	13766.6	13689.9	13631.3	14415.7	14857.4	14253.4
50°	13590.8	13640.4	13955.9	14230.9	14852.9	14934.1	14979.2	14830.4	15362.3	15411.9	15159.5
52.5°	13464.6	13518.7	13960.4	14866.5	15858.2	16601.9	16466.7	16214.3	16182.7	16376.5	15997.9
55°	12346.6	12297.1	12905.6	14316.5	16173.7	17958.8	17976.8	17710.8	17201.5	17070.7	15871.7
56°	11395.5	11201.7	11977.0	13680.9	15768.0	17841.6	18044.4	17760.4	17282.6	16696.6	15091.8
57.5°	9335.5	9520.3	10291.1	11702.0	14366.1	16998.6	17115.8	17048.2	16687.6	15704.9	13279.7
60°	5147.8	5472.4	6153.0	7879.5	10228.0	13045.3	13140.0	13689.9	13757.6	12026.6	9137.1
62.5°	2186.2	2150.2	2857.9	4129.1	5824.0	7875.0	8050.8	8614.3	8717.9	6932.9	4584.4
65°	888.0	937.6	1293.7	2078.1	3078.8	3588.1	3836.1	4020.9	4363.5	2862.4	1690.4
67.5°	586.0	581.5	761.8	1185.5	1658.8	1600.2	1600.2	1690.4	1564.2	1167.5	730.3
70°	419.2	432.7	545.4	820.4	1032.3	766.3	734.8	703.2	797.9	770.8	590.5
72.5°	275.0	293.0	365.1	491.3	536.4	419.2	419.2	504.9	658.1	622.1	482.3
75°	180.3	184.8	225.4	284.0	266.0	216.4	238.9	338.1	477.8	459.8	342.6
77.5°	121.7	126.2	153.3	184.8	148.8	121.7	130.7	171.3	234.4	234.4	180.3
80°	45.1	49.6	63.1	58.6	67.6	85.6	94.7	117.2	139.7	139.7	121.7
82.5°	0.0	4.5	13.5	31.6	49.6	67.6	76.6	90.2	103.7	117.2	112.7
85°	0.0	4.5	13.5	22.5	36.1	40.6	45.1	31.6	27.0	27.0	22.5
87.5°	0.0	0.0	4.5	4.5	4.5	4.5	4.5	4.5	9.0	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°	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6	4728.6
2.5°	4728.6	4724.1	4724.1	4710.6	4737.6	4724.1	4733.1	4728.6	4670.0	4715.1	4683.5
5°	4778.2	4809.7	4760.2	4751.1	4715.1	4728.6	4728.6	4683.5	4724.1	4719.6	4710.6
7.5°	4904.4	4850.3	4796.2	4742.1	4733.1	4719.6	4670.0	4652.0	4683.5	4647.5	4701.6
10°	4958.5	4967.5	4886.4	4814.2	4746.6	4652.0	4584.4	4543.8	4494.2	4548.3	4579.8
12.5°	5206.4	5116.3	4976.5	4863.8	4633.9	4539.3	4471.7	4453.6	4539.3	4557.3	4525.8
15°	5292.1	5278.5	5098.2	4845.8	4606.9	4494.2	4507.7	4471.7	4480.7	4435.6	4444.6
17.5°	5467.9	5314.6	5102.7	4787.2	4602.4	4575.3	4494.2	4349.9	4268.8	4232.7	4264.3
20°	5661.7	5512.9	5206.4	4809.7	4643.0	4570.8	4304.9	4129.1	3962.3	3872.1	3876.6
22.5°	5833.0	5648.2	5161.3	4818.8	4679.0	4381.5	4061.5	3714.4	3507.0	3367.3	3371.8
25°	6040.3	5778.9	5179.4	4836.8	4584.4	4079.5	3619.7	3281.6	3033.7	2939.0	2970.6
27.5°	6157.5	5860.0	5278.5	4877.4	4336.4	3651.3	3155.4	2839.9	2695.6	2650.5	2646.0
30°	6509.1	6040.3	5400.2	4796.2	3921.7	3191.5	2731.7	2537.8	2398.1	2357.5	2366.6
32.5°	7032.0	6369.4	5558.0	4584.4	3498.0	2781.3	2456.7	2312.5	2181.7	2105.1	2096.1
35°	7469.3	6932.9	5724.8	4255.3	3006.6	2465.7	2262.9	2082.6	1884.2	1798.6	1776.0
37.5°	8303.2	7568.5	5688.7	3759.4	2537.8	2231.3	2055.5	1834.6	1663.3	1546.1	1532.6
40°	9412.1	8312.2	5512.9	3155.4	2190.8	2024.0	1834.6	1622.8	1410.9	1311.7	1302.7
42.5°	10759.9	9222.8	5192.9	2542.4	1843.7	1816.6	1645.3	1401.9	1212.6	1140.5	1145.0
45°	11855.3	10002.6	4868.3	2042.0	1586.7	1613.8	1465.0	1235.1	1104.4	1045.8	1045.8
47.5°	12829.0	10530.0	4516.7	1685.9	1347.8	1410.9	1280.2	1145.0	1032.3	987.2	978.2
50°	13766.6	11066.5	4165.1	1365.8	1149.5	1212.6	1199.1	1090.9	1000.7	946.6	951.1
52.5°	14352.6	11152.1	3718.9	1117.9	1005.2	1077.3	1122.4	1023.3	924.1	892.5	883.5
55°	13635.9	10047.7	2884.9	919.6	852.0	946.6	1032.3	919.6	842.9	788.9	784.3
56°	12671.2	8983.9	2411.6	847.5	806.9	910.6	1000.7	879.0	793.4	761.8	739.3
57.5°	10728.4	7352.1	1780.5	752.8	748.3	847.5	951.1	838.4	739.3	712.2	712.2
60°	6689.5	4138.1	1077.3	631.1	649.1	752.8	856.5	748.3	658.1	658.1	671.7
62.5°	3047.2	1721.9	653.6	536.4	559.0	649.1	761.8	676.2	626.6	676.2	685.2
65°	1036.8	743.8	473.3	428.2	441.8	536.4	653.6	685.2	680.7	712.2	730.3
67.5°	581.5	477.8	396.7	356.1	347.1	396.7	536.4	685.2	658.1	644.6	653.6
70°	491.3	405.7	351.6	315.5	302.0	320.0	414.7	518.4	464.3	450.8	441.8
72.5°	396.7	338.1	306.5	284.0	243.4	207.4	189.3	198.3	220.9	234.4	256.9
75°	279.5	256.9	256.9	229.9	175.8	130.7	103.7	85.6	58.6	40.6	45.1
77.5°	157.8	157.8	162.3	139.7	112.7	85.6	63.1	45.1	22.5	9.0	4.5
80°	108.2	117.2	126.2	112.7	94.7	76.6	54.1	31.6	13.5	0.0	0.0
82.5°	108.2	121.7	130.7	112.7	94.7	72.1	54.1	31.6	13.5	4.5	0.0
85°	22.5	27.0	31.6	36.1	54.1	54.1	40.6	27.0	13.5	4.5	0.0
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	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)