

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: P647683

Luminaire Tested: **GALN-SA9D-835-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647683
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-SA9D-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA 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: 40315.9 lumens
Efficiency: N/A
Efficacy: 73.0 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

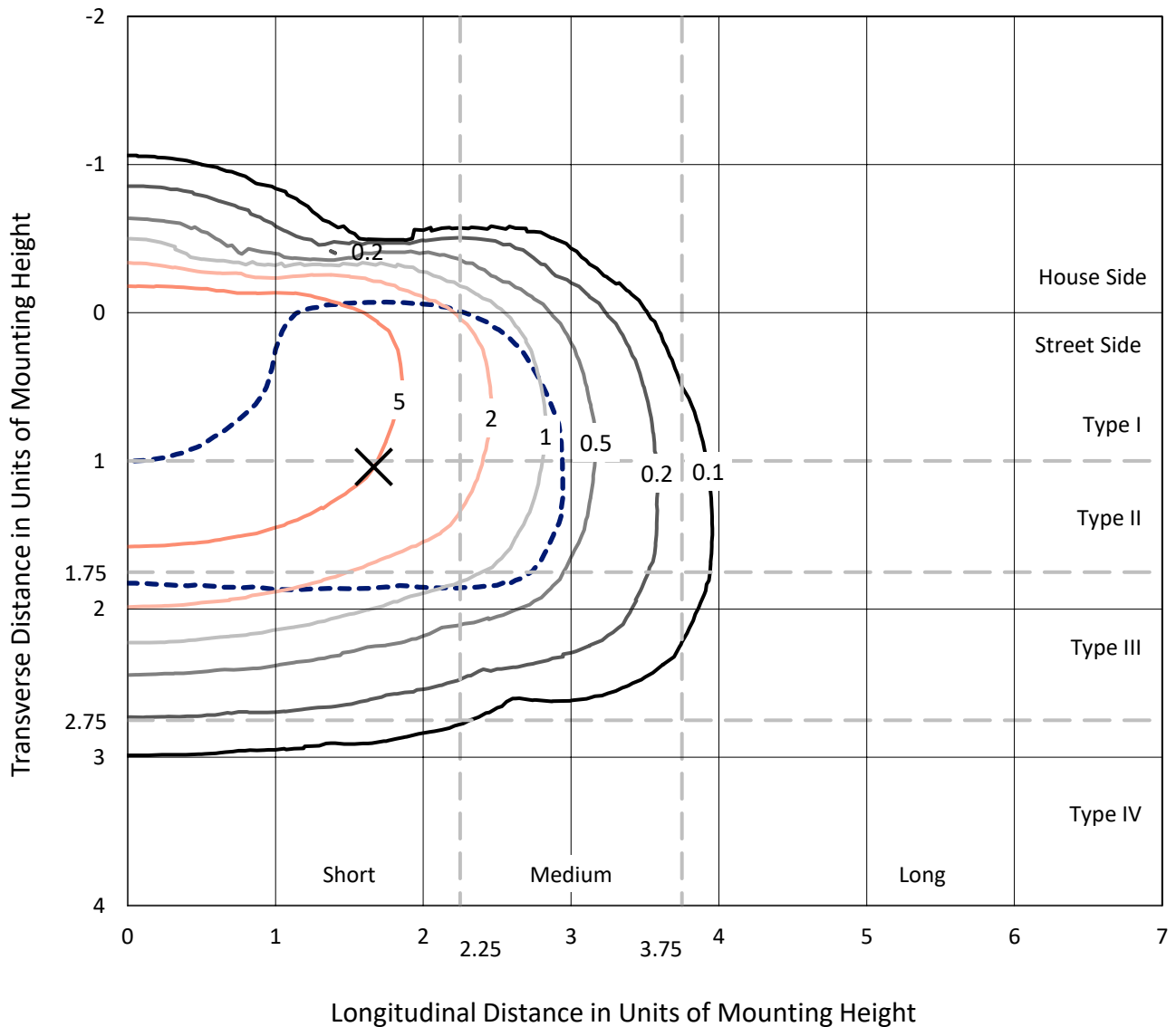
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

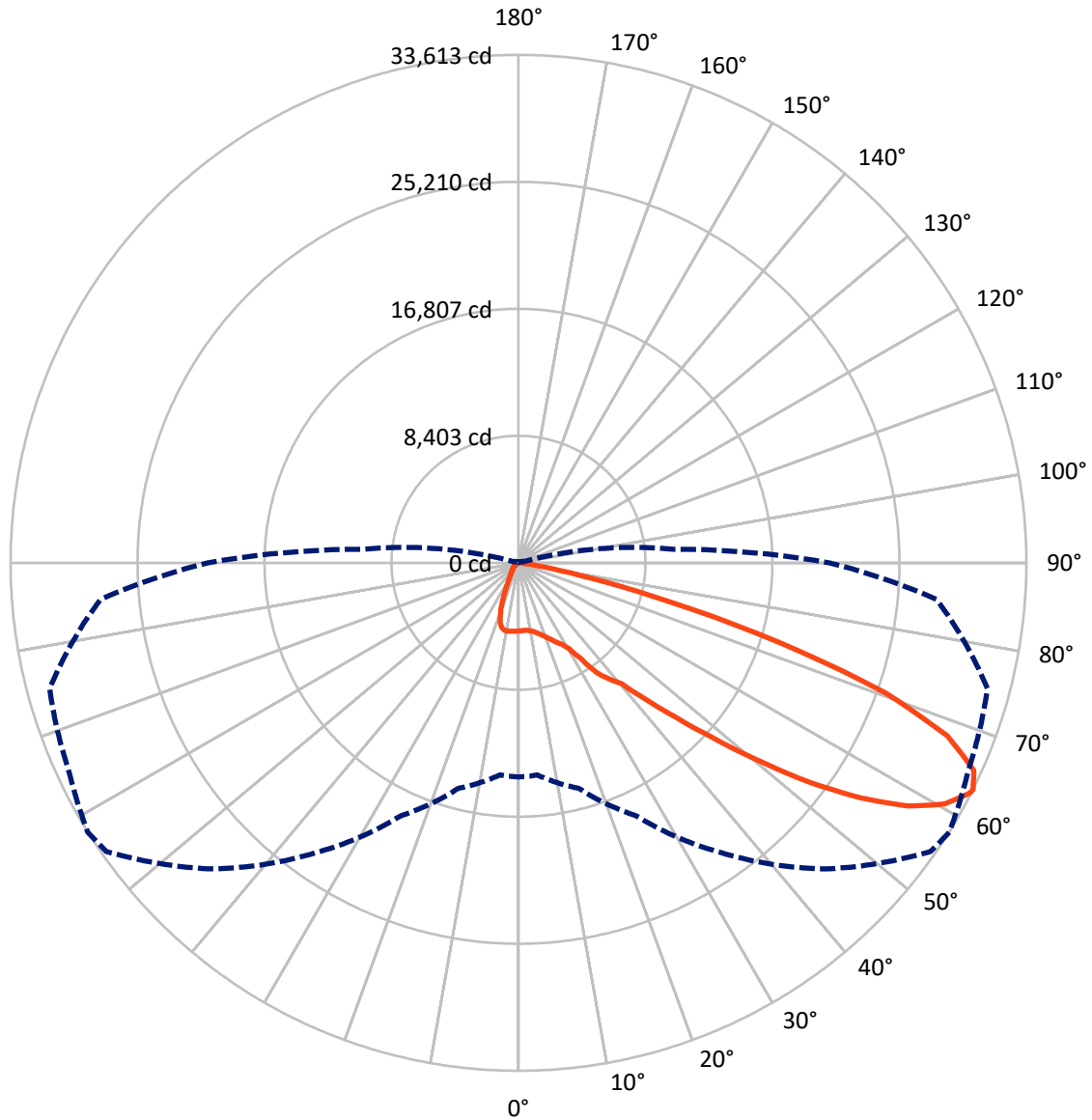
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type 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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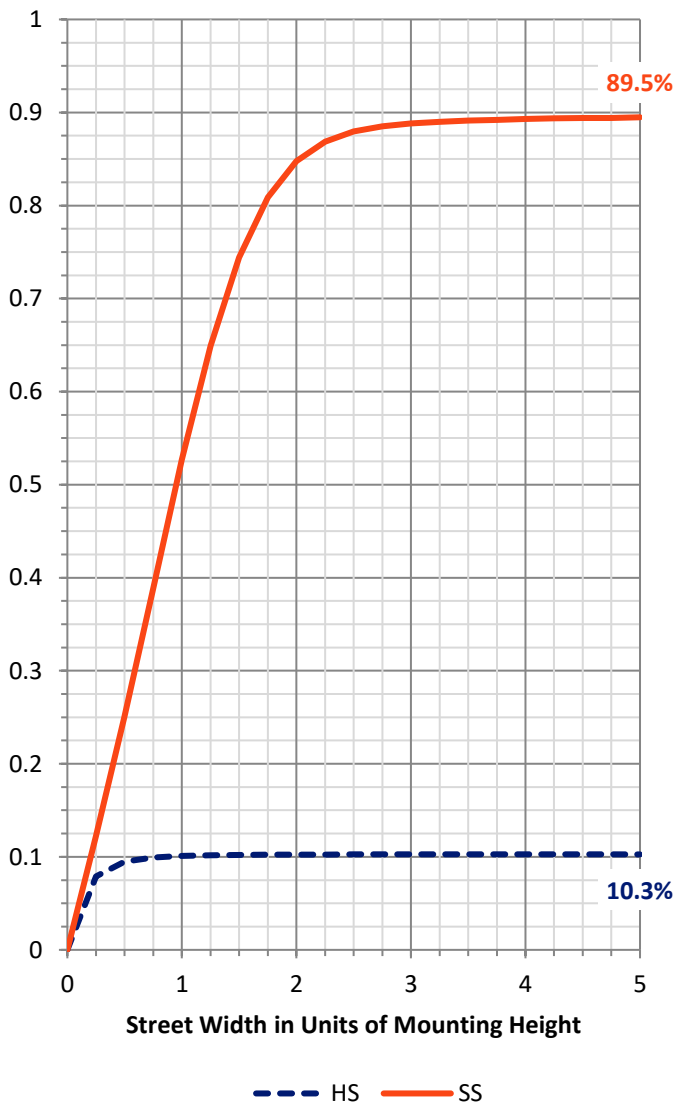
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4174.5	0.0	4174.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	36141.4	0.0	36141.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	40315.9	0.0	40315.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.5	1.0
10°-20°	1150.8	2.9
20°-30°	1997.3	5.0
30°-40°	3670.2	9.1
40°-50°	6909.2	17.1
50°-60°	11817.6	29.3
60°-70°	11315.3	28.1
70°-80°	2885.4	7.2
80°-90°	147.5	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°	40315.9	100.0
0°-180°	40315.9	100.0

Coefficient of Utilization

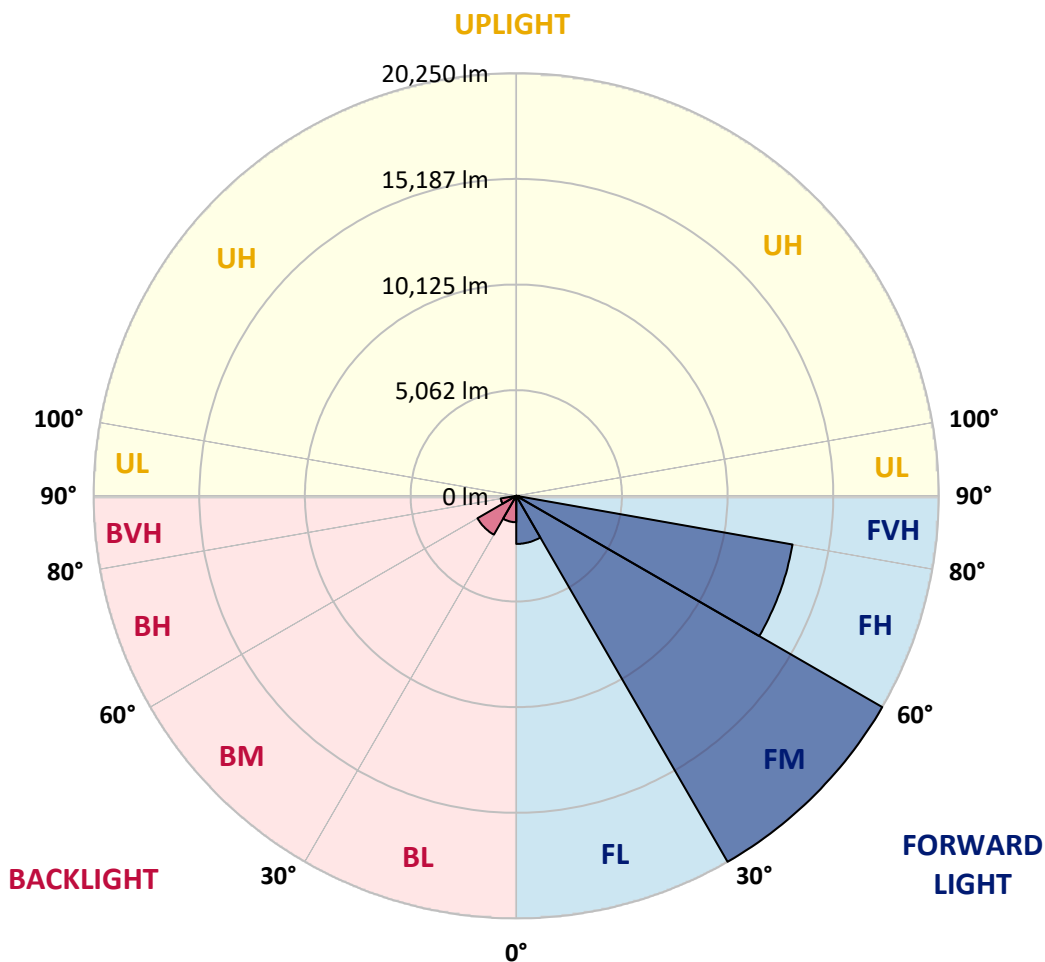


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2304.6	5.7			
FM (30°-60°)	20249.9	50.2			
FH (60°-80°)	13445.1	33.3			G5
FVH (80°-90°)	141.8	0.4			G2/225
BL (0°-30°)	1266.0	3.1	B3/2500		
BM (30°-60°)	2147.1	5.3	B2/2500		
BH (60°-80°)	755.6	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.7	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°	4513.5	4513.5	4513.5	4513.5	4513.5	4513.5	4513.5	4513.5	4513.5	4513.5	4513.5
2.5°	4401.2	4416.4	4431.5	4437.7	4458.9	4480.2	4495.3	4492.3	4516.6	4528.7	4528.7
5°	4225.1	4225.1	4264.6	4301.0	4361.8	4422.5	4480.2	4492.3	4537.8	4580.3	4595.5
7.5°	4076.5	4085.5	4115.9	4182.7	4264.6	4370.9	4486.2	4513.5	4592.5	4686.6	4726.0
10°	4006.6	4012.7	4052.2	4121.9	4225.1	4370.9	4531.8	4583.4	4704.7	4853.5	4908.1
12.5°	3991.4	4000.6	4040.0	4118.9	4237.3	4413.4	4631.9	4686.6	4862.6	5053.8	5135.8
15°	4018.7	4024.9	4064.3	4149.3	4279.8	4489.3	4765.4	4841.4	5050.7	5272.3	5378.6
17.5°	4115.9	4109.8	4137.1	4207.0	4352.6	4583.4	4926.3	5017.4	5263.2	5566.7	5636.6
20°	4528.7	4489.3	4465.0	4404.2	4461.9	4716.9	5120.6	5254.2	5557.7	5867.3	5915.8
22.5°	5418.0	5330.0	5157.0	4920.2	4738.2	4899.0	5354.3	5509.1	5900.7	6204.2	6204.2
25°	6550.2	6437.9	6264.9	5748.9	5302.7	5199.5	5618.3	5812.6	6274.0	6580.6	6480.4
27.5°	7967.7	7879.7	7542.8	6941.8	6258.8	5724.6	5925.0	6104.0	6604.8	6975.2	6765.7
30°	9121.2	9078.7	8802.4	8265.2	7512.4	6732.3	6495.6	6613.9	7045.0	7473.0	7257.5
32.5°	10095.5	10095.5	9813.2	9312.4	8608.1	7916.1	7463.9	7548.8	7961.6	8456.4	8055.7
35°	11166.9	11130.5	10902.9	10426.3	9637.2	9027.1	8841.9	8957.2	9330.5	9697.8	8711.3
37.5°	12293.0	12280.9	12044.2	11582.8	10939.3	10171.3	9737.3	9767.7	9958.9	10183.5	9479.3
40°	13516.3	13534.5	13224.9	12939.5	12332.5	11546.4	10714.7	10523.4	10702.5	11336.9	10896.8
42.5°	14961.1	14918.6	14785.1	14396.6	13907.8	13437.4	12438.7	12368.9	12526.7	13206.7	12730.1
45°	16639.6	16700.3	16469.6	16254.1	15926.3	15534.8	14700.0	14578.6	14751.6	15807.9	15131.1
47.5°	18321.2	18263.6	18412.2	18372.8	18548.8	18257.4	17519.9	17270.9	17686.8	18688.5	17692.9
50°	19602.1	19665.8	19975.4	20427.7	21183.5	21347.4	20640.2	20555.2	20740.3	21383.8	19984.5
52.5°	20433.8	20646.2	21131.9	22294.4	23657.2	24716.6	24179.4	24133.9	24057.9	24231.0	22176.0
55°	20977.1	21192.6	21827.0	23538.9	25885.2	27606.2	27633.6	27439.3	26938.5	26814.0	24224.8
57.5°	20643.2	20685.7	21590.2	23878.8	27120.6	29667.2	30559.6	30365.4	29439.5	28969.1	26034.0
60°	18554.9	18642.9	19902.6	22591.9	26583.3	30341.0	32499.2	32411.1	31397.4	30866.2	27442.3
62.5°	14854.8	15109.8	16405.9	19404.8	24085.2	29205.8	33285.3	33534.2	32745.1	32013.5	27885.4
63°	14175.0	14093.0	15461.9	18476.0	23423.5	28644.3	33297.5	33613.1	32805.7	32122.8	27764.1
65°	10493.1	10738.9	11628.3	14569.5	19492.8	26030.9	32547.7	33106.3	32581.1	31640.2	26419.4
67.5°	5891.5	5879.4	6862.8	9534.0	13643.8	20418.6	29430.5	30611.2	30501.9	28392.4	21899.8
70°	2883.6	2929.0	3332.8	4941.5	7913.1	14087.0	24455.6	25730.4	25769.9	22300.5	15143.2
72.5°	1305.2	1326.4	1614.8	2407.0	4067.3	7500.3	16852.1	18069.3	17844.6	14211.4	8362.3
75°	689.0	734.5	889.3	1211.1	1960.8	3093.0	9166.7	10344.4	9873.9	6492.6	3077.8
77.5°	510.0	525.1	604.0	770.9	1050.2	1205.0	3955.0	4704.7	4407.3	2349.3	1019.9
80°	373.3	385.5	449.2	546.4	661.7	613.2	1490.4	1708.9	1532.8	798.3	312.7
82.5°	227.6	230.7	327.8	406.8	415.9	343.0	491.7	528.1	552.4	449.2	170.0
85°	82.0	103.2	221.6	294.4	245.9	173.0	206.4	227.6	248.9	285.3	100.1
87.5°	9.1	12.1	106.3	142.7	69.8	63.7	75.9	85.0	91.1	106.3	48.5
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°	4513.5	4513.5	4513.5	4513.5	4513.5	4513.5	4513.5	4513.5	4513.5	4513.5	4513.5
2.5°	4540.9	4553.0	4543.9	4528.7	4525.7	4516.6	4498.3	4498.3	4498.3	4504.4	4498.3
5°	4607.6	4616.7	4595.5	4565.1	4531.8	4489.3	4443.7	4416.4	4413.4	4407.3	4392.1
7.5°	4735.1	4747.3	4698.7	4625.8	4534.7	4431.5	4334.5	4243.4	4200.9	4167.5	4167.5
10°	4920.2	4932.4	4835.3	4704.7	4522.6	4313.2	4082.5	3873.0	3709.1	3633.3	3615.0
12.5°	5141.8	5147.9	4987.0	4759.4	4458.9	4055.2	3563.4	3105.1	2786.4	2640.7	2625.6
15°	5384.7	5342.2	5129.7	4780.6	4276.7	3524.0	2674.1	2112.6	1781.7	1684.6	1721.0
17.5°	5630.6	5551.6	5239.0	4747.3	3867.0	2674.1	1796.9	1441.7	1338.5	1311.3	1311.3
20°	5861.2	5751.9	5317.9	4601.5	3156.7	1842.5	1332.5	1247.6	1229.3	1211.1	1214.1
22.5°	6091.9	5925.0	5387.7	4276.7	2352.4	1317.3	1192.9	1165.6	1141.3	1117.0	1114.0
25°	6316.5	6085.8	5415.0	3675.8	1602.6	1132.1	1089.7	1053.3	1004.7	977.3	971.3
27.5°	6550.2	6280.1	5396.8	2916.9	1168.6	1013.8	971.3	919.7	862.0	813.5	813.5
30°	6999.5	6650.4	5333.1	2097.4	983.4	892.4	837.7	755.8	692.0	643.5	640.4
32.5°	7612.6	7133.0	5114.5	1475.2	874.1	786.1	704.2	613.2	546.4	510.0	510.0
35°	8158.9	7618.7	4704.7	1086.6	786.1	682.9	582.8	494.8	443.2	418.9	409.7
37.5°	8990.6	8328.9	4140.2	883.3	701.2	591.9	488.7	406.8	364.3	346.0	346.0
40°	10238.1	9197.0	3448.1	774.0	619.2	503.9	406.8	343.0	309.6	288.4	288.4
42.5°	11786.1	10259.4	2747.0	695.1	543.3	434.0	340.0	291.4	261.1	245.9	242.8
45°	13734.8	11379.4	2115.6	622.3	482.6	370.3	288.4	245.9	215.5	206.4	209.5
47.5°	15768.4	12365.9	1639.1	558.5	418.9	312.7	245.9	212.5	191.2	179.1	179.1
50°	17504.7	13045.8	1244.5	485.6	370.3	264.1	215.5	191.2	173.0	166.9	163.9
52.5°	18955.6	13243.1	953.1	421.9	324.8	227.6	191.2	173.0	157.9	148.7	148.7
55°	20190.9	13070.1	746.7	355.2	273.2	197.3	170.0	154.8	136.6	127.5	124.4
57.5°	20913.4	12514.6	570.7	294.4	221.6	163.9	148.7	130.5	109.3	94.1	94.1
60°	21277.6	11707.3	437.1	242.8	170.0	130.5	121.4	97.1	75.9	63.7	60.7
62.5°	20840.5	10635.7	330.8	191.2	127.5	97.1	82.0	69.8	48.5	36.4	36.4
63°	20570.3	10326.1	318.7	182.1	118.4	91.1	75.9	63.7	42.5	33.4	30.4
65°	18752.2	8975.5	261.1	145.7	94.1	63.7	51.6	45.5	30.4	15.2	12.1
67.5°	14891.3	6865.9	206.4	109.3	66.8	45.5	30.4	27.3	9.1	0.0	0.0
70°	10068.1	4434.6	160.9	78.9	45.5	27.3	15.2	12.1	3.1	0.0	0.0
72.5°	5251.1	2273.4	124.4	57.7	27.3	18.2	9.1	3.1	0.0	0.0	0.0
75°	1857.6	774.0	91.1	36.4	18.2	9.1	3.1	0.0	0.0	0.0	0.0
77.5°	561.6	288.4	57.7	27.3	12.1	6.1	0.0	0.0	0.0	0.0	0.0
80°	197.3	106.3	33.4	18.2	9.1	3.1	0.0	0.0	0.0	0.0	0.0
82.5°	97.1	51.6	21.2	15.2	9.1	3.1	0.0	0.0	0.0	0.0	0.0
85°	54.7	33.4	18.2	15.2	9.1	6.1	0.0	0.0	0.0	0.0	0.0
87.5°	39.5	24.3	18.2	15.2	12.1	6.1	3.1	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)