

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: P534091

Luminaire Tested: **GALN-SA9C-740-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-740-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42152 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

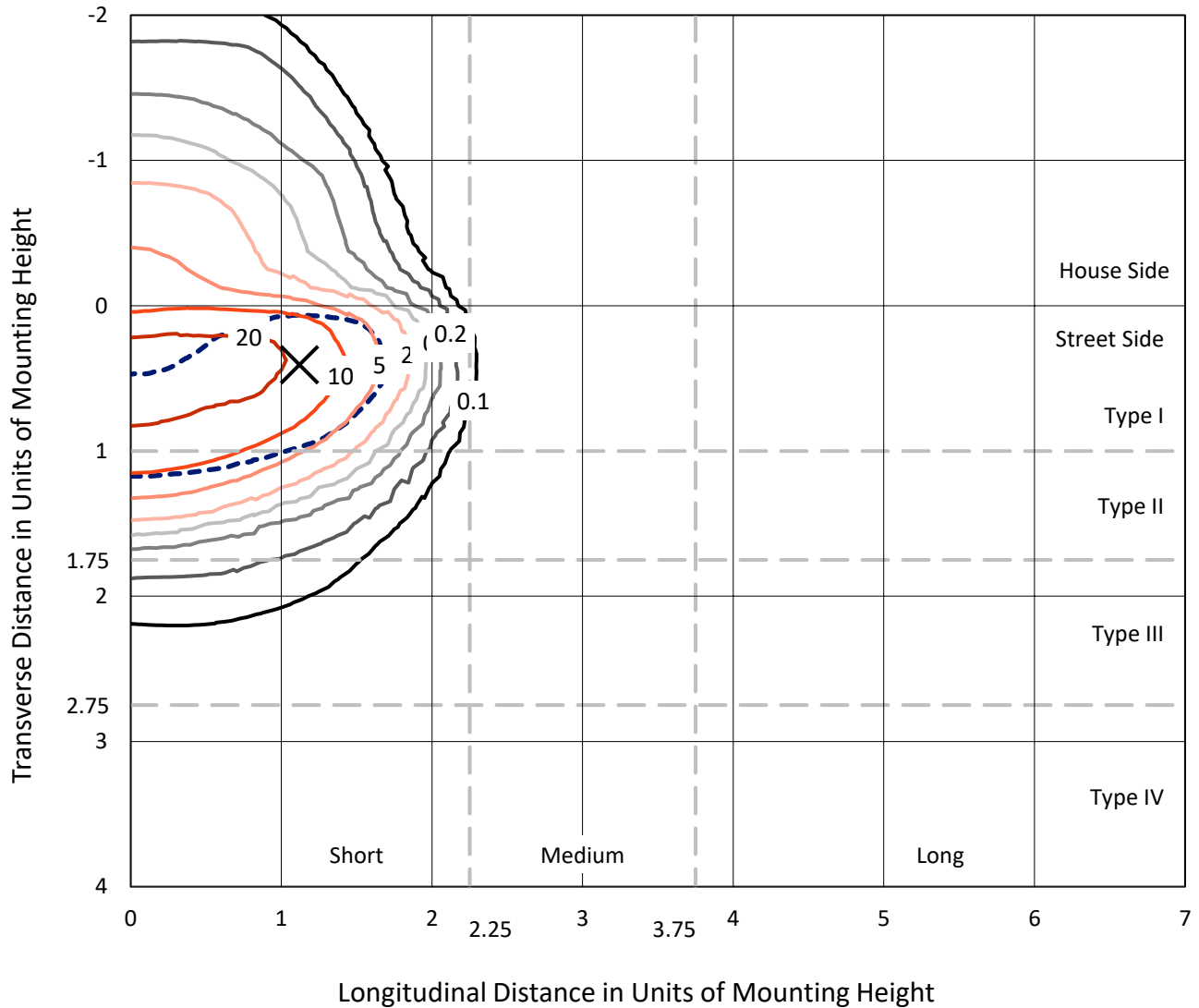
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

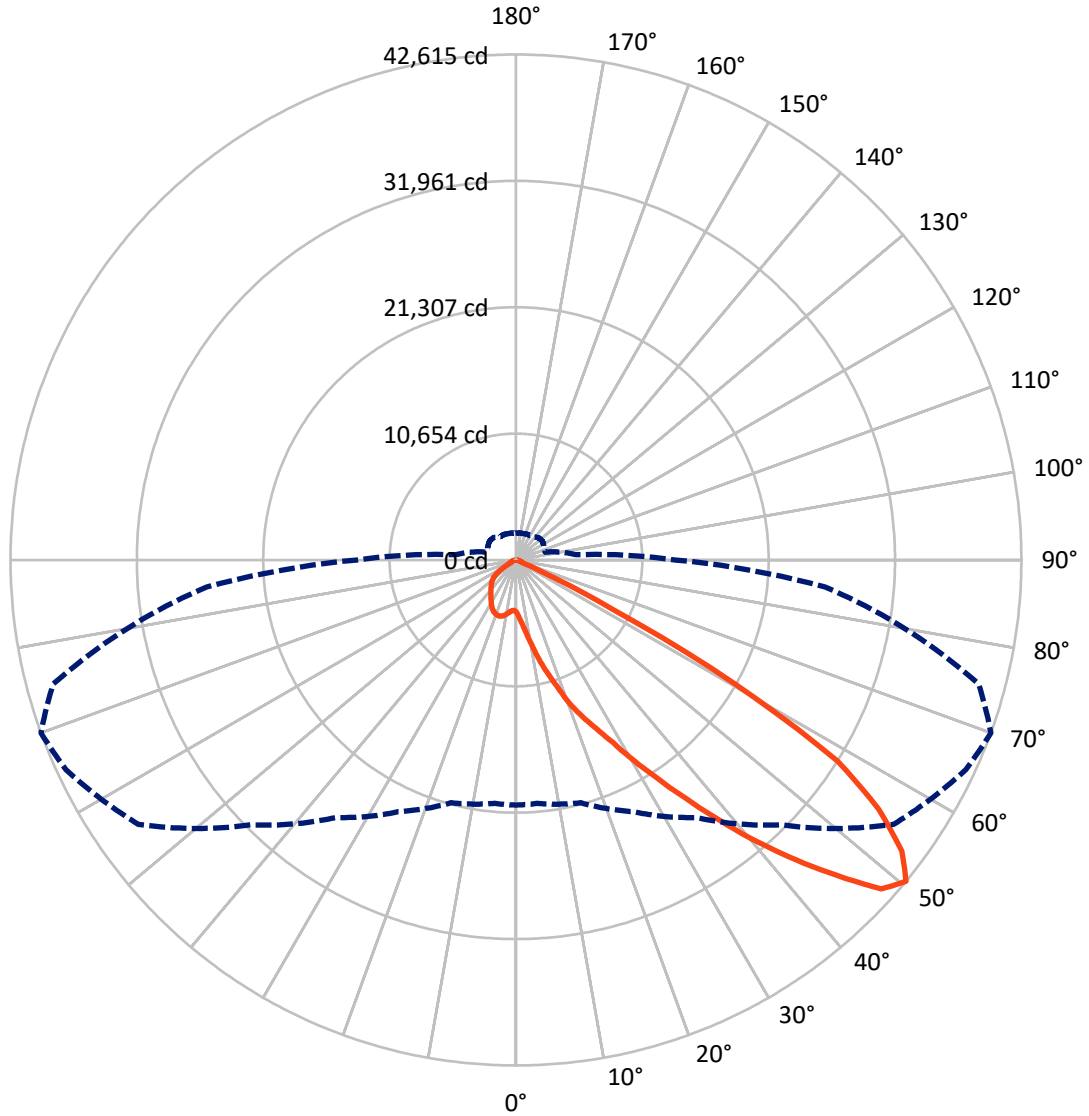
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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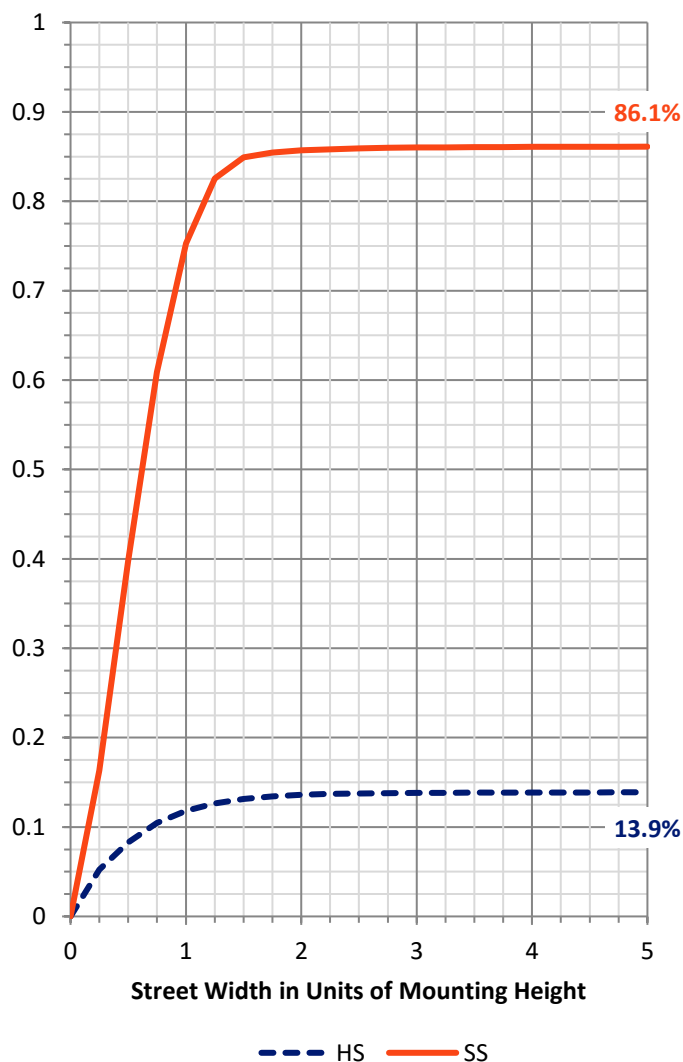
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5886.8	0.0	5886.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	36265.2	0.0	36265.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	42152.0	0.0	42152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.8	1.3
10°-20°	2455.9	5.8
20°-30°	5152.1	12.2
30°-40°	8880.4	21.1
40°-50°	12978.7	30.8
50°-60°	10108.3	24.0
60°-70°	1712.6	4.1
70°-80°	235.3	0.6
80°-90°	61.0	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°	42152.0	100.0
0°-180°	42152.0	100.0

Coefficient of Utilization



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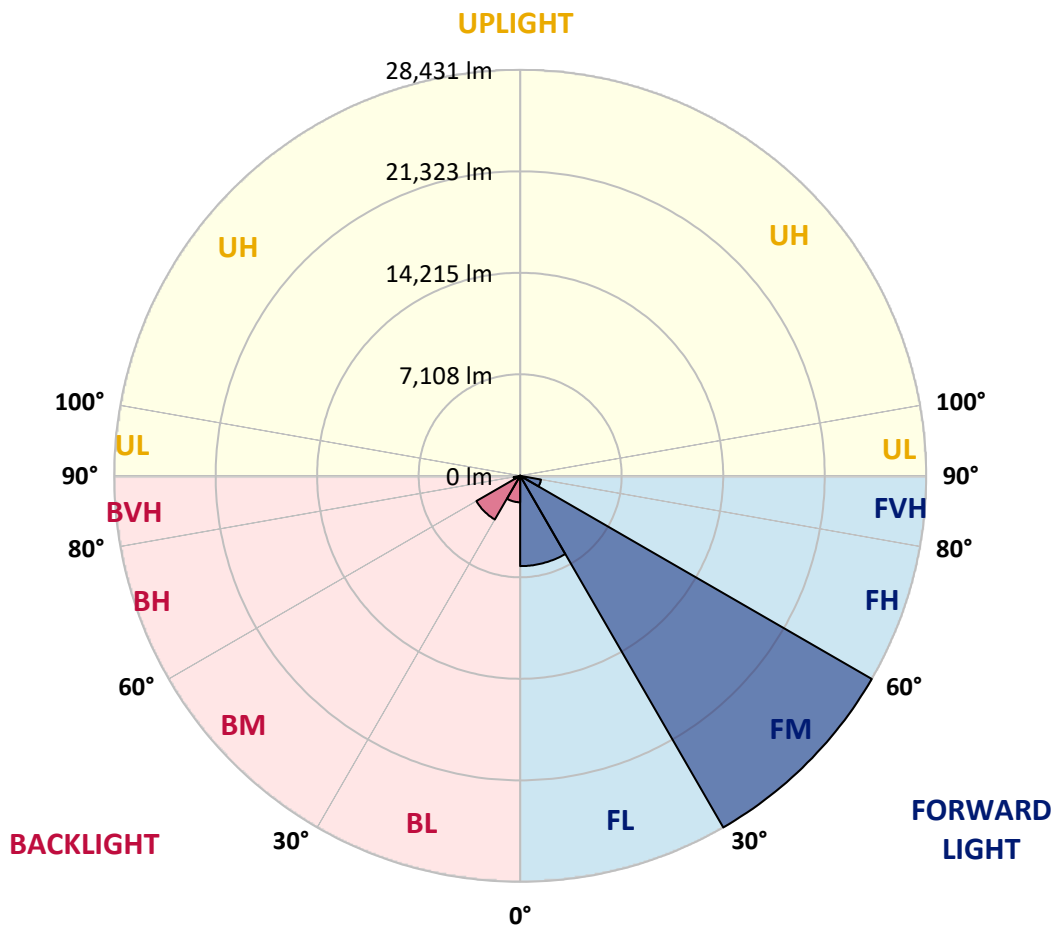
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6323.3	15.0			
FM (30°-60°)	28430.8	67.4			
FH (60°-80°)	1482.9	3.5			G1/1800
FVH (80°-90°)	28.2	0.1			G1/100
BL (0°-30°)	1852.4	4.4	B3/2500		
BM (30°-60°)	3536.6	8.4	B3/5000		
BH (60°-80°)	465.0	1.1	B1/500		G1/500
BVH (80°-90°)	32.8	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-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4366.1	4366.1	4366.1	4366.1	4366.1	4366.1	4366.1	4366.1	4366.1	4366.1	4366.1
2.5°	5717.5	5676.0	5585.9	5419.5	5350.2	5183.9	5086.9	4899.8	4781.9	4650.3	4504.7
5°	8053.1	7838.2	7706.5	7519.4	6971.9	6632.3	6071.0	5592.8	5371.0	5128.5	4795.8
7.5°	10464.8	10326.2	10146.0	9744.1	9369.8	8662.9	7699.6	6646.2	6195.7	5779.9	5121.5
10°	12460.8	12072.7	12051.9	11753.9	11345.0	10499.5	9342.1	8032.3	7228.3	6618.5	5585.9
12.5°	13853.8	13500.3	13659.7	13625.1	13243.9	12467.7	11130.1	9397.5	8559.0	7609.5	6064.1
15°	15122.0	14976.5	14928.0	14886.4	14733.9	14158.7	12959.7	11060.8	9848.0	8704.5	6604.6
17.5°	16362.5	15988.3	16168.5	16203.1	16189.3	15669.5	14546.8	12640.9	11213.3	9861.9	7172.9
20°	17464.5	17499.1	17256.6	17208.0	17166.5	17145.7	16050.7	14207.2	12890.4	11074.7	7914.5
22.5°	18878.3	18635.7	18850.5	18711.9	18441.6	18275.3	17436.7	15593.3	14345.8	12537.0	8669.9
25°	20548.5	20742.5	20236.6	20181.2	19883.2	19307.9	18552.5	17145.7	15745.7	13895.3	9487.6
27.5°	22606.8	22267.2	22135.5	21830.6	21290.0	21047.5	20160.4	18746.6	17436.7	15323.0	10277.7
30°	24374.0	24283.9	23625.5	23265.2	22793.9	22787.0	21546.4	20915.8	19640.6	17561.5	11365.8
32.5°	25815.5	25420.5	25177.9	24928.4	24547.3	24651.2	23604.8	23272.1	21990.0	19640.6	12647.9
35°	26778.9	26494.7	26349.2	25968.0	25857.1	26321.4	25884.8	25746.2	24692.8	22565.2	14151.8
37.5°	27083.8	27173.9	27146.2	26668.0	26903.6	28158.0	28719.3	28359.0	27804.5	25649.2	15780.4
40°	27354.1	27416.4	27277.8	27839.2	28511.4	29939.1	31969.7	31373.7	31165.8	28774.8	18046.6
42.5°	27506.5	27458.0	27458.0	28428.3	29447.0	32316.2	35109.1	34714.1	34554.7	32101.4	20666.3
45°	26848.2	26376.9	26882.8	28199.6	30251.0	33487.4	37617.9	38165.4	37936.7	36058.6	23729.5
47.5°	24387.9	24679.0	24963.1	26723.4	29273.8	33127.0	39156.4	41020.7	41443.5	39385.1	25739.3
50°	20666.3	20603.9	21193.0	23410.7	26508.6	31574.7	38858.4	41845.4	42614.7	40383.1	26162.1
52.5°	15031.9	15489.3	16126.9	18330.8	22003.8	27555.1	35012.1	39717.8	40743.5	39156.4	25884.8
55°	8753.0	8247.1	9681.7	11546.0	15011.1	20784.1	29599.5	35206.2	37105.1	36924.9	24484.9
57.5°	3506.8	3395.9	3887.9	5239.3	7831.3	12883.5	21525.7	28927.3	31969.7	33820.1	21518.7
60°	1538.5	1503.9	1767.2	2134.5	3201.8	5939.3	11774.7	17991.2	21165.3	23632.5	14810.1
62.5°	1108.9	1095.0	1226.7	1358.3	1691.0	2585.0	4948.3	7249.1	9037.2	10915.3	6632.3
65°	894.0	928.7	1018.8	1088.1	1247.5	1434.6	1746.4	2016.7	2474.1	2564.2	1462.3
67.5°	727.7	755.4	838.6	914.8	942.5	776.2	803.9	706.9	706.9	630.7	505.9
70°	533.6	540.6	637.6	727.7	582.1	311.9	547.5	547.5	492.1	471.3	429.7
72.5°	395.0	402.0	478.2	450.5	228.7	194.0	402.0	443.5	402.0	381.2	346.5
75°	291.1	298.0	249.5	104.0	97.0	124.7	235.6	304.9	291.1	284.1	263.4
77.5°	55.4	41.6	34.7	48.5	69.3	104.0	152.5	187.1	194.0	207.9	194.0
80°	6.9	6.9	20.8	41.6	76.2	110.9	159.4	180.2	187.1	194.0	180.2
82.5°	0.0	6.9	20.8	41.6	76.2	104.0	138.6	159.4	173.3	180.2	173.3
85°	0.0	6.9	13.9	34.7	62.4	76.2	69.3	48.5	41.6	48.5	34.7
87.5°	0.0	0.0	6.9	6.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
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°	4366.1	4366.1	4366.1	4366.1	4366.1	4366.1	4366.1	4366.1	4366.1	4366.1	4366.1
2.5°	4421.6	4393.8	4296.8	4192.9	4102.8	4144.3	4102.8	4068.1	4082.0	4068.1	4054.3
5°	4664.1	4539.4	4331.5	4241.4	4165.1	4158.2	4137.4	4130.5	4137.4	4137.4	4075.0
7.5°	4892.8	4691.8	4470.1	4373.0	4283.0	4289.9	4241.4	4241.4	4234.4	4199.8	4185.9
10°	5239.3	4969.1	4684.9	4511.7	4400.8	4380.0	4331.5	4283.0	4283.0	4283.0	4213.6
12.5°	5620.5	5280.9	4892.8	4691.8	4560.2	4456.2	4380.0	4366.1	4289.9	4276.0	4241.4
15°	5953.2	5523.5	5031.4	4754.2	4587.9	4449.3	4331.5	4255.2	4220.6	4199.8	4172.1
17.5°	6278.9	5731.4	5107.7	4754.2	4574.0	4414.6	4289.9	4220.6	4137.4	4151.3	4095.8
20°	6715.5	5953.2	5128.5	4664.1	4442.4	4289.9	4123.6	4088.9	4040.4	3998.8	4012.7
22.5°	7138.3	6112.6	5066.1	4553.2	4234.4	4054.3	3971.1	3929.5	3908.7	3874.1	3825.6
25°	7519.4	6285.8	4969.1	4352.3	4012.7	3881.0	3804.8	3797.8	3749.3	3749.3	3659.2
27.5°	7907.5	6348.2	4802.7	4116.6	3818.6	3742.4	3707.7	3693.9	3673.1	3624.6	3562.2
30°	8351.1	6369.0	4560.2	3874.1	3645.4	3562.2	3610.7	3645.4	3555.3	3465.2	3492.9
32.5°	8718.4	6320.5	4269.1	3645.4	3520.6	3479.0	3576.1	3610.7	3506.8	3409.7	3361.2
35°	9161.9	6202.7	3984.9	3465.2	3395.9	3479.0	3562.2	3562.2	3354.3	3236.5	3208.7
37.5°	9834.2	6071.0	3721.6	3312.7	3264.2	3437.5	3548.3	3472.1	3146.4	3000.8	2966.2
40°	10554.9	5987.8	3465.2	3160.2	3194.9	3368.1	3430.5	3194.9	2862.2	2772.1	2744.4
42.5°	11601.4	5821.5	3236.5	3028.6	3132.5	3271.1	3271.1	2848.4	2723.6	2675.1	2668.2
45°	12904.3	5703.7	3035.5	2917.7	3042.4	3077.1	2966.2	2668.2	2578.1	2564.2	2571.2
47.5°	13541.9	5475.0	2827.6	2786.0	2876.1	2883.0	2591.9	2522.6	2446.4	2425.6	2411.8
50°	13444.9	5066.1	2557.3	2612.7	2737.5	2668.2	2363.2	2377.1	2307.8	2300.9	2266.2
52.5°	12765.7	4421.6	2287.0	2418.7	2557.3	2356.3	2176.1	2162.3	2162.3	2072.2	2037.5
55°	11317.3	3562.2	1961.3	2127.6	2293.9	1982.1	1933.6	1919.7	1885.1	1801.9	1781.1
57.5°	8960.9	2612.7	1476.2	1656.4	1947.4	1684.1	1677.1	1614.8	1524.7	1462.3	1462.3
60°	5329.4	1503.9	928.7	1011.8	1289.0	1365.3	1517.7	1490.0	1337.6	1240.5	1212.8
62.5°	2432.6	776.2	589.1	602.9	693.0	887.1	1192.0	1379.1	1164.3	998.0	984.1
65°	817.8	575.2	485.1	464.3	478.2	533.6	713.8	977.2	928.7	769.3	741.5
67.5°	499.0	512.8	457.4	422.8	422.8	415.8	408.9	443.5	547.5	533.6	540.6
70°	429.7	471.3	422.8	381.2	367.3	346.5	291.1	242.6	207.9	242.6	256.4
72.5°	346.5	374.2	360.4	325.7	291.1	263.4	207.9	159.4	117.8	104.0	104.0
75°	256.4	277.2	291.1	249.5	221.8	187.1	152.5	104.0	62.4	41.6	41.6
77.5°	187.1	207.9	214.8	194.0	166.3	131.7	97.0	69.3	34.7	13.9	13.9
80°	159.4	187.1	207.9	194.0	173.3	124.7	90.1	48.5	27.7	6.9	6.9
82.5°	152.5	187.1	207.9	187.1	166.3	117.8	90.1	55.4	20.8	6.9	6.9
85°	34.7	48.5	62.4	76.2	90.1	90.1	69.3	41.6	20.8	6.9	6.9
87.5°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	6.9	6.9	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)