

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: P453519

Luminaire Tested: **GALN-SA4C-740-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21775 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

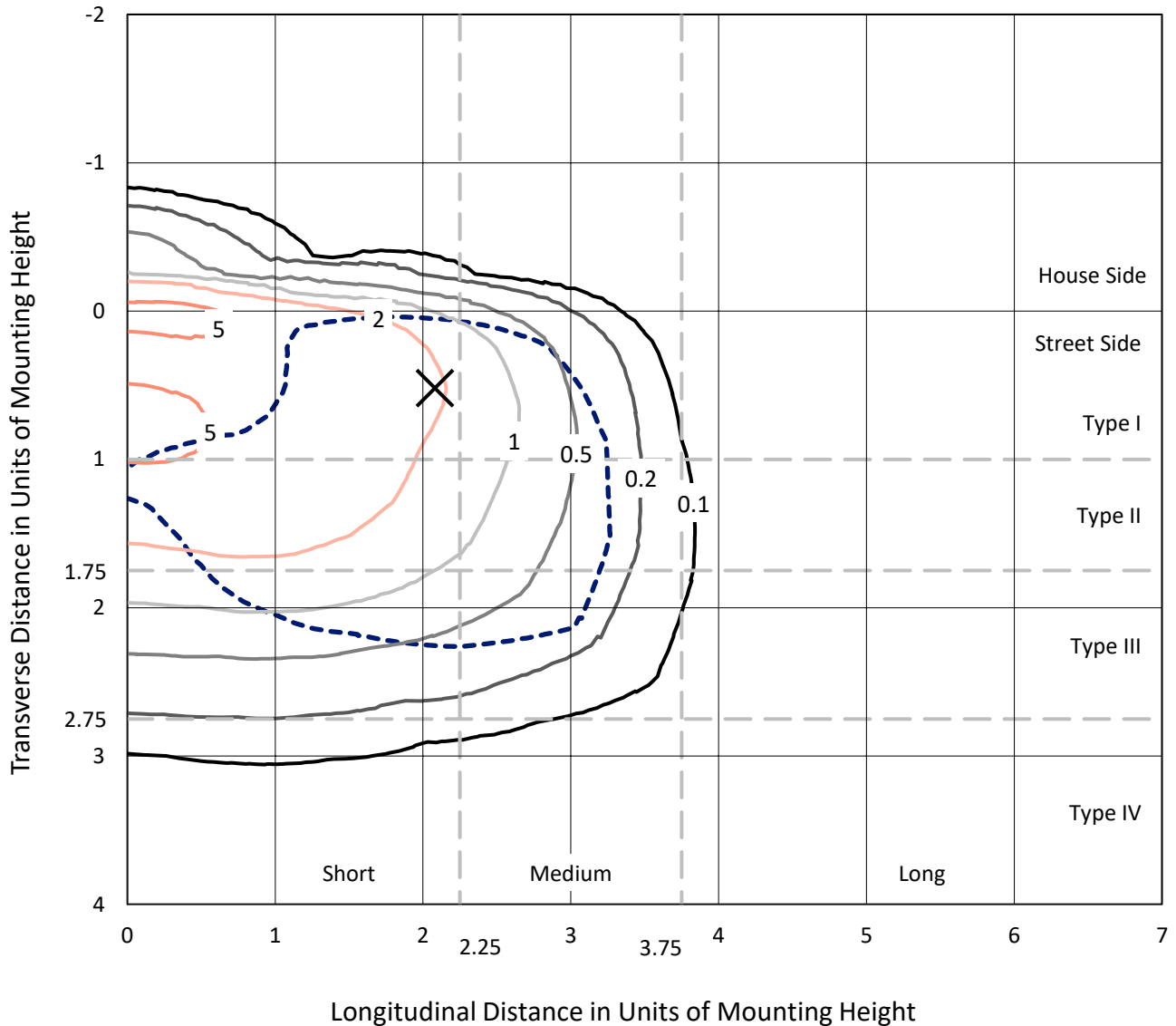
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

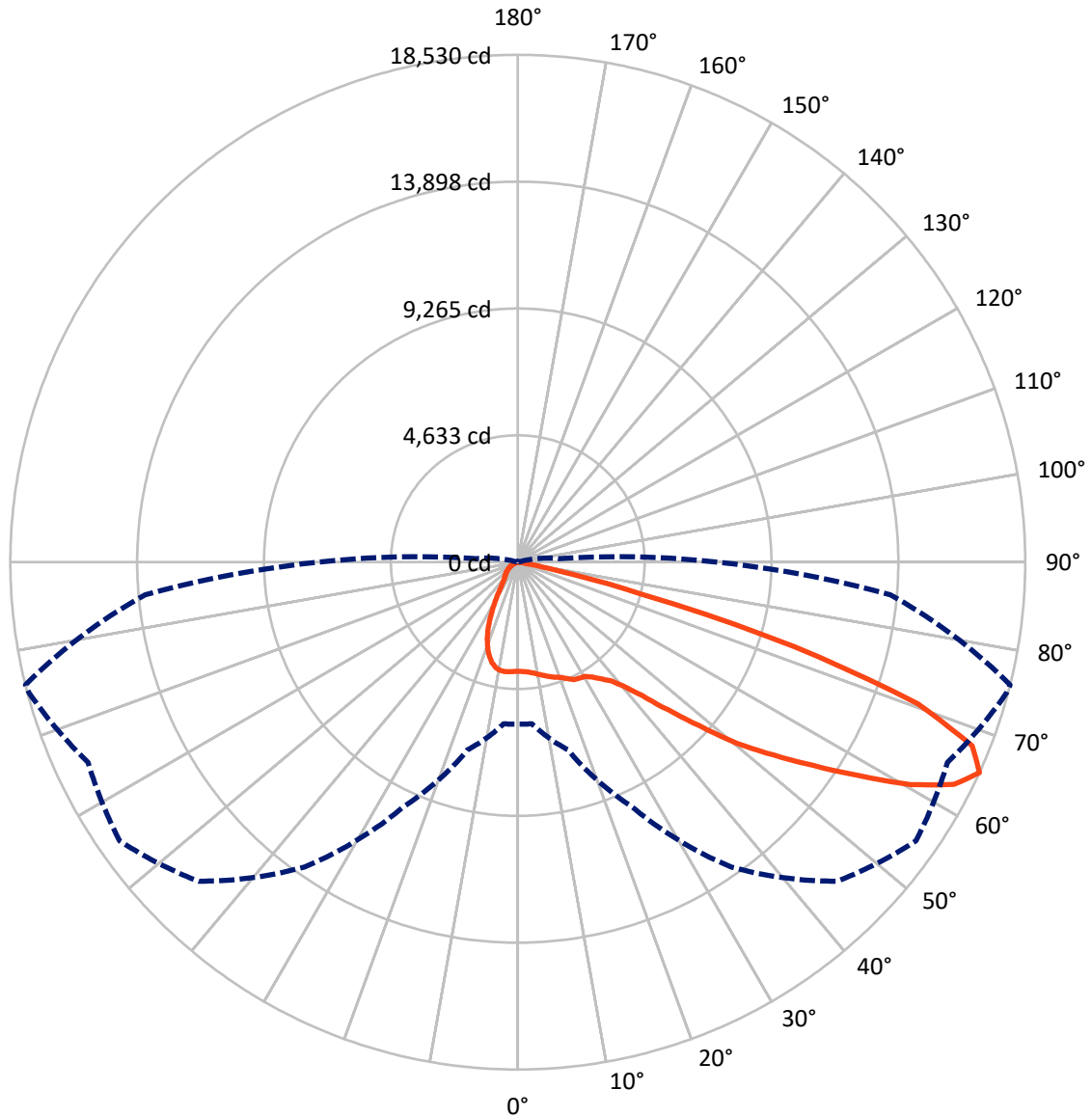
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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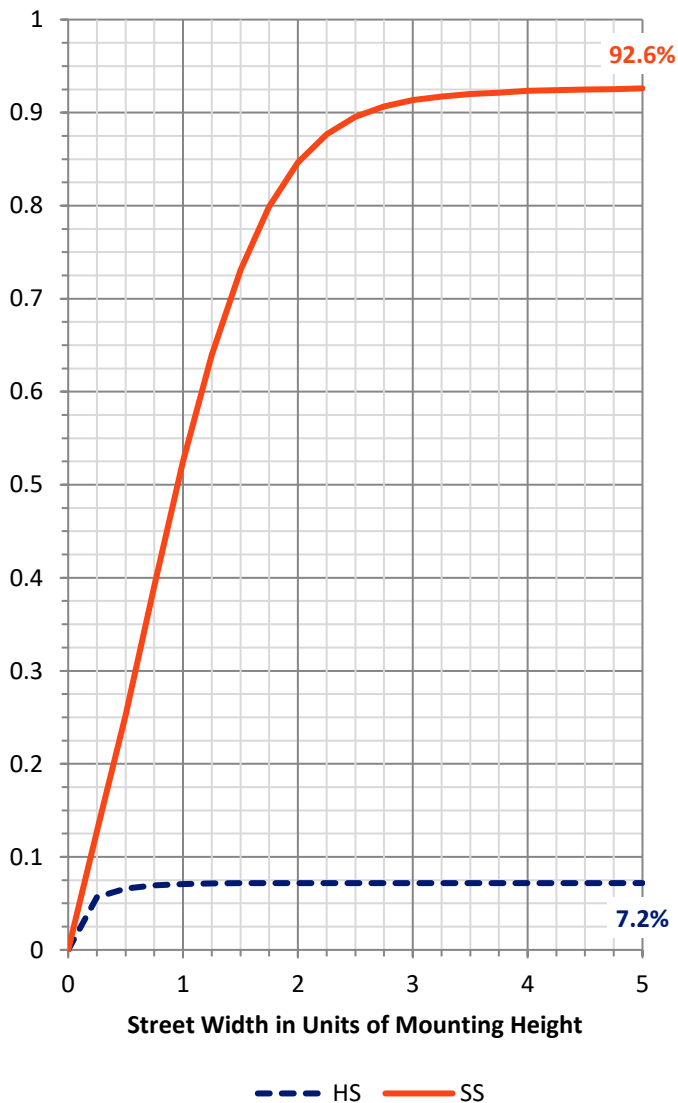
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1572.6	0.0	1572.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	20202.4	0.0	20202.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	21775.0	0.0	21775.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.1	1.5
10°-20°	730.6	3.4
20°-30°	1177.3	5.4
30°-40°	2047.1	9.4
40°-50°	3382.7	15.5
50°-60°	5225.5	24.0
60°-70°	6381.1	29.3
70°-80°	2421.8	11.1
80°-90°	80.8	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°	21775.0	100.0
0°-180°	21775.0	100.0

Coefficient of Utilization



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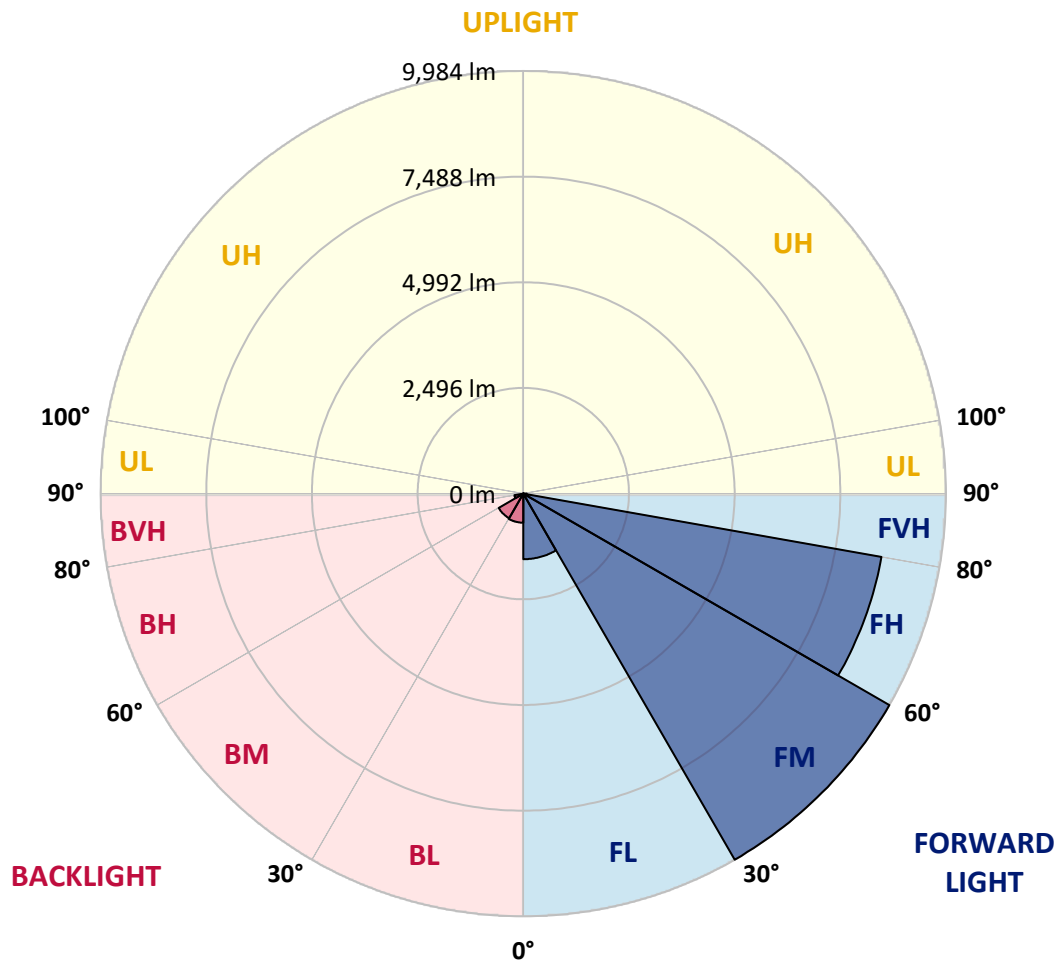
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1549.0	7.1			
FM (30°-60°)	9984.2	45.9			
FH (60°-80°)	8589.5	39.4			G4/12000
FVH (80°-90°)	79.7	0.4			G1/100
BL (0°-30°)	687.0	3.2	B2/1000		
BM (30°-60°)	671.1	3.1	B1/1000		
BH (60°-80°)	213.4	1.0	B1/500		G1/500
BVH (80°-90°)	1.1	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3983.3	3983.3	3983.3	3983.3	3983.3	3983.3	3983.3	3983.3	3983.3	3983.3	3983.3
2.5°	3806.5	3808.1	3817.3	3840.4	3875.7	3904.9	3929.5	3969.5	3997.2	4000.3	4009.5
5°	3543.7	3525.2	3543.7	3603.6	3657.4	3738.9	3838.8	3938.8	4027.9	4034.1	4077.1
7.5°	3248.5	3263.9	3293.1	3354.6	3456.0	3580.5	3725.1	3903.4	4072.5	4087.9	4172.4
10°	2948.7	2982.5	3030.2	3123.9	3265.4	3426.8	3623.6	3878.8	4143.2	4164.8	4310.8
12.5°	2672.0	2687.3	2745.8	2871.8	3047.1	3274.6	3546.7	3865.0	4221.6	4247.8	4458.4
15°	2459.8	2479.8	2530.5	2644.3	2839.5	3131.6	3483.7	3860.4	4298.5	4335.4	4606.0
17.5°	2419.8	2432.1	2453.7	2530.5	2701.2	3017.9	3426.8	3858.8	4372.3	4416.9	4742.8
20°	2584.3	2573.6	2552.0	2544.4	2638.1	2930.2	3385.3	3871.1	4443.0	4493.8	4887.3
22.5°	2996.3	3010.2	2884.1	2735.0	2704.2	2916.4	3379.2	3929.5	4555.2	4615.2	5048.7
25°	3871.1	3765.0	3568.3	3211.6	2942.5	3001.0	3448.3	4067.9	4685.9	4752.0	5194.8
27.5°	4838.1	4805.8	4499.9	3912.6	3411.4	3179.3	3571.3	4174.0	4729.0	4796.6	5277.8
30°	5788.2	5826.7	5476.1	4827.4	4092.5	3509.8	3686.6	4213.9	4767.4	4838.1	5383.9
32.5°	6669.1	6715.3	6407.8	5765.2	4895.0	4081.7	3885.0	4369.2	4928.8	5001.1	5560.7
35°	7362.5	7368.6	7136.5	6624.6	5771.3	4776.6	4313.9	4641.3	5147.1	5231.7	5748.3
37.5°	7999.0	7989.7	7717.6	7276.4	6501.6	5466.9	4853.5	4955.0	5396.2	5483.8	6018.8
40°	8470.9	8477.1	8389.5	7974.4	7182.6	6104.9	5280.9	5248.6	5814.4	5951.2	6412.4
42.5°	8786.1	8843.0	8886.0	8675.4	8038.9	6890.5	5937.3	5877.4	6540.0	6653.8	6968.9
45°	9041.3	9142.8	9358.0	9347.2	8861.4	7854.5	6838.3	6715.3	7568.5	7690.0	7677.7
47.5°	9227.3	9330.3	9687.0	9902.2	9634.7	8789.2	7971.3	7865.2	8796.9	8929.1	8460.2
50°	9322.7	9445.6	9900.7	10317.3	10238.9	9690.1	9262.7	9268.8	10280.4	10408.0	9367.2
52.5°	9099.7	9259.6	10014.5	10764.7	10916.9	10552.6	10472.6	10675.5	11601.0	11710.2	10186.7
55°	8387.9	8589.3	9859.2	11146.0	11702.5	11570.3	11847.0	12156.0	13044.6	13115.4	11027.6
57.5°	7937.5	8151.2	9401.1	11470.4	12646.5	12849.4	13287.5	13513.5	14534.4	14714.2	11993.1
60°	7557.7	7725.3	9024.4	11539.5	13605.8	14414.4	14840.3	15074.0	16373.1	16489.9	13055.4
62.5°	6925.9	7118.1	8387.9	11056.8	14088.5	15667.4	16549.9	16445.3	17795.1	17876.6	13707.2
65°	5909.7	5926.6	7096.5	9843.8	13590.4	16480.7	17750.5	17312.4	18474.7	18530.0	13656.5
67.5°	4410.7	4573.7	5459.2	7737.6	11479.6	15785.8	18139.5	17335.5	18045.7	17892.0	12572.7
70°	2841.1	2965.6	3700.5	5365.4	8277.2	13173.8	16849.6	16147.1	15838.1	15496.8	10291.2
72.5°	1311.4	1471.3	2198.4	3065.5	4908.8	9384.1	13678.0	13118.4	11399.6	10557.2	6541.5
75°	571.9	611.9	1085.4	1617.3	2301.5	4962.7	9018.3	8143.5	5148.7	4702.8	2618.2
77.5°	349.0	375.1	568.8	867.1	904.0	1891.0	4858.1	3552.9	1591.2	1403.6	710.3
80°	236.8	266.0	413.6	453.5	309.0	527.3	1823.3	948.6	321.3	307.5	152.2
82.5°	115.3	146.1	305.9	253.7	133.8	169.1	530.4	202.9	93.8	87.6	53.8
85°	16.9	29.2	172.2	166.0	60.0	40.0	93.8	50.7	32.3	30.7	24.6
87.5°	0.0	0.0	58.4	26.1	6.1	6.1	10.8	10.8	12.3	10.8	12.3
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°	3983.3	3983.3	3983.3	3983.3	3983.3	3983.3	3983.3	3983.3	3983.3	3983.3	3983.3
2.5°	4014.1	4021.8	3992.6	3951.1	3906.5	3861.9	3798.9	3742.0	3708.2	3728.1	3678.9
5°	4086.3	4080.2	4003.3	3877.3	3709.7	3508.3	3308.4	3137.8	3082.4	2999.4	2990.2
7.5°	4186.3	4169.4	4006.4	3717.4	3339.2	2961.0	2592.0	2347.6	2207.7	2089.3	2092.4
10°	4326.2	4277.0	3971.0	3436.0	2813.4	2243.0	1772.6	1449.7	1309.8	1265.3	1229.9
12.5°	4470.7	4375.4	3872.7	3056.3	2190.8	1532.8	1077.7	880.9	794.8	767.2	764.1
15°	4599.8	4449.2	3700.5	2599.7	1592.7	979.3	734.9	670.3	659.5	661.1	659.5
17.5°	4727.4	4507.6	3462.2	2115.4	1082.3	702.6	631.9	616.5	621.1	627.2	625.7
20°	4833.5	4519.9	3157.8	1614.2	765.6	616.5	593.4	590.4	595.0	599.6	599.6
22.5°	4948.8	4529.1	2796.5	1117.7	625.7	573.4	561.1	561.1	567.3	573.4	575.0
25°	5034.9	4478.4	2364.5	802.5	551.9	531.9	525.8	527.3	533.5	536.5	535.0
27.5°	5048.7	4335.4	1906.3	615.0	501.2	481.2	475.0	481.2	473.5	478.1	475.0
30°	5061.0	4154.0	1442.1	518.1	455.1	424.3	415.1	405.9	399.7	392.0	390.5
32.5°	5099.5	3940.3	1053.1	465.8	412.0	378.2	356.7	330.5	310.6	304.4	302.9
35°	5116.4	3683.6	773.3	424.3	373.6	336.7	298.3	261.4	232.1	221.4	229.1
37.5°	5181.0	3434.5	599.6	393.6	339.8	293.6	244.4	198.3	170.6	164.5	167.6
40°	5313.2	3163.9	502.7	367.4	310.6	253.7	193.7	149.1	130.7	124.5	123.0
42.5°	5525.3	2894.9	447.4	342.8	281.3	213.7	152.2	116.8	101.5	96.9	96.9
45°	5783.6	2636.6	408.9	316.7	250.6	172.2	119.9	93.8	84.6	81.5	81.5
47.5°	6123.4	2410.6	376.7	290.6	216.8	136.8	96.9	81.5	75.3	76.9	78.4
50°	6467.7	2243.0	341.3	261.4	178.3	112.2	83.0	72.3	70.7	72.3	72.3
52.5°	6727.6	2144.6	293.6	221.4	139.9	93.8	73.8	67.6	66.1	63.0	63.0
55°	7078.1	2123.1	233.7	179.9	110.7	78.4	66.1	61.5	56.9	53.8	52.3
57.5°	7528.5	2147.7	179.9	139.9	86.1	64.6	58.4	50.7	44.6	38.4	38.4
60°	7808.3	2092.4	139.9	107.6	63.0	52.3	44.6	36.9	29.2	24.6	23.1
62.5°	7719.2	1858.7	110.7	79.9	44.6	38.4	29.2	24.6	16.9	12.3	10.8
65°	7259.5	1500.5	89.2	55.3	32.3	23.1	15.4	15.4	7.7	1.5	0.0
67.5°	6354.0	1111.5	70.7	36.9	18.4	10.8	7.7	4.6	0.0	0.0	0.0
70°	5171.7	802.5	55.3	23.1	10.8	7.7	3.1	1.5	0.0	0.0	0.0
72.5°	3283.8	459.7	43.0	13.8	7.7	3.1	0.0	0.0	0.0	0.0	0.0
75°	1269.9	179.9	29.2	9.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	359.7	84.6	16.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	93.8	36.9	9.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	44.6	15.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.1	6.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.3	1.5	0.0	0.0	0.0	0.0	0.0	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)