

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: P383238

Luminaire Tested: **GLEON-SA5C-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5C-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23386.5 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

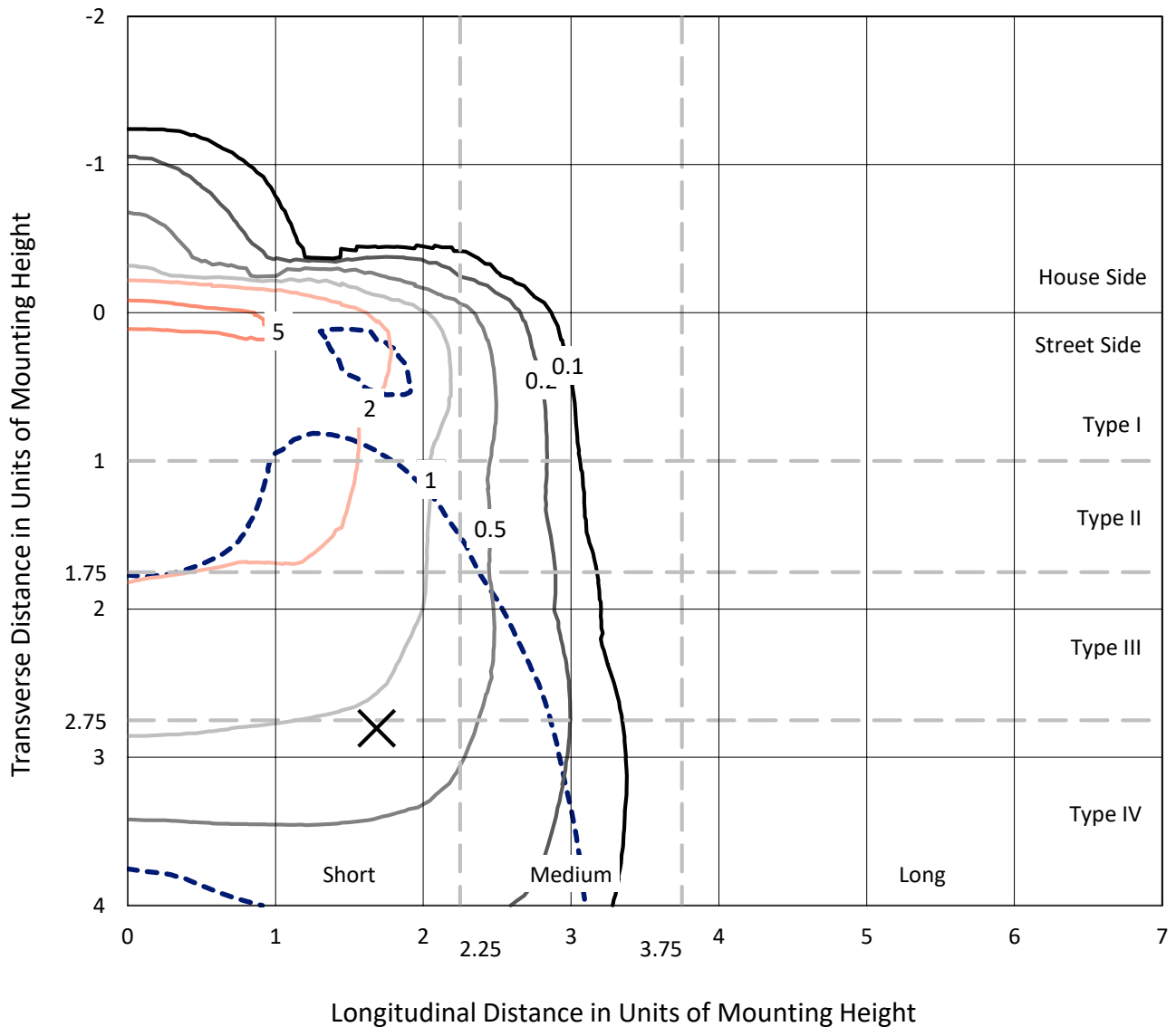
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

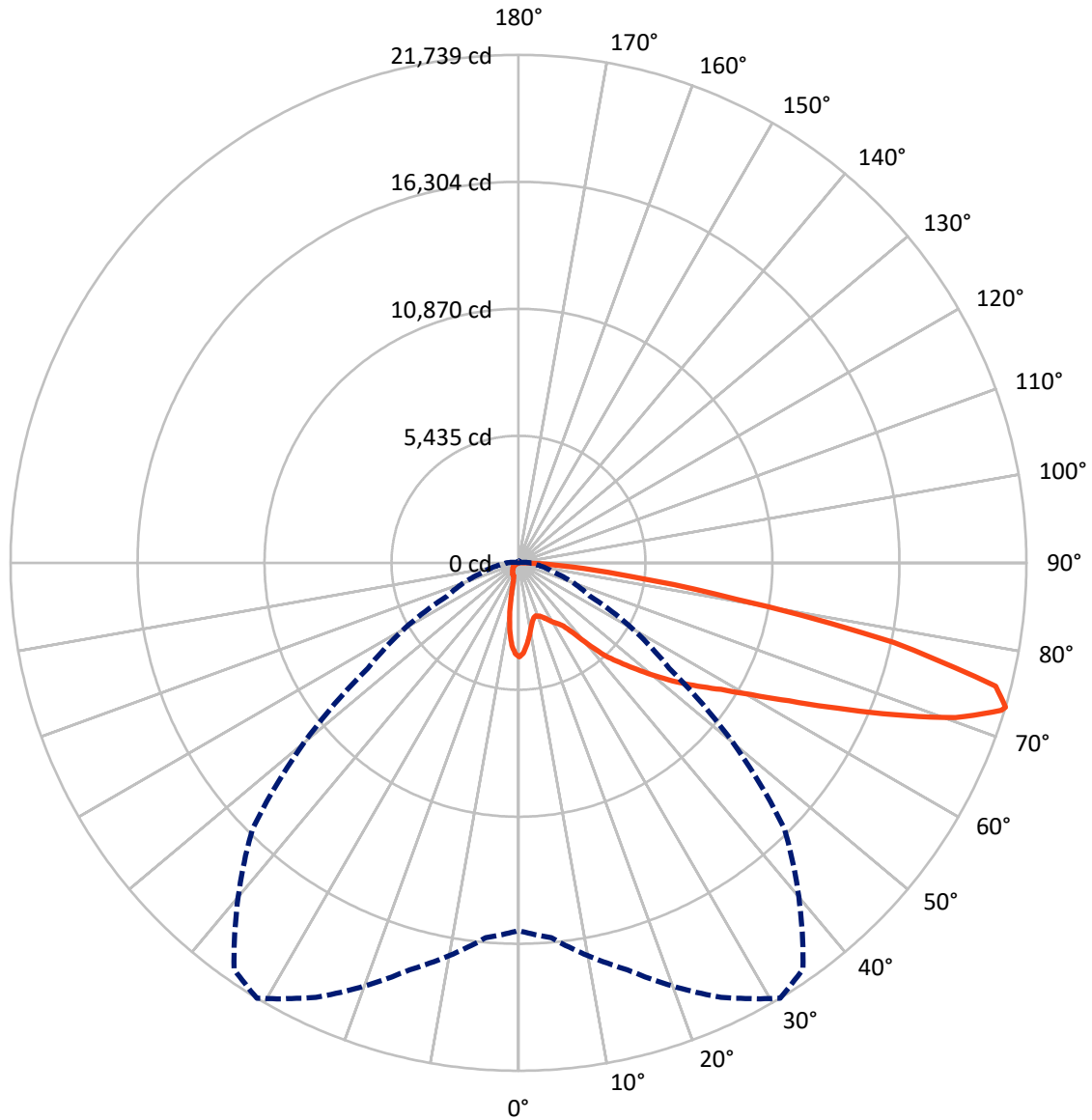
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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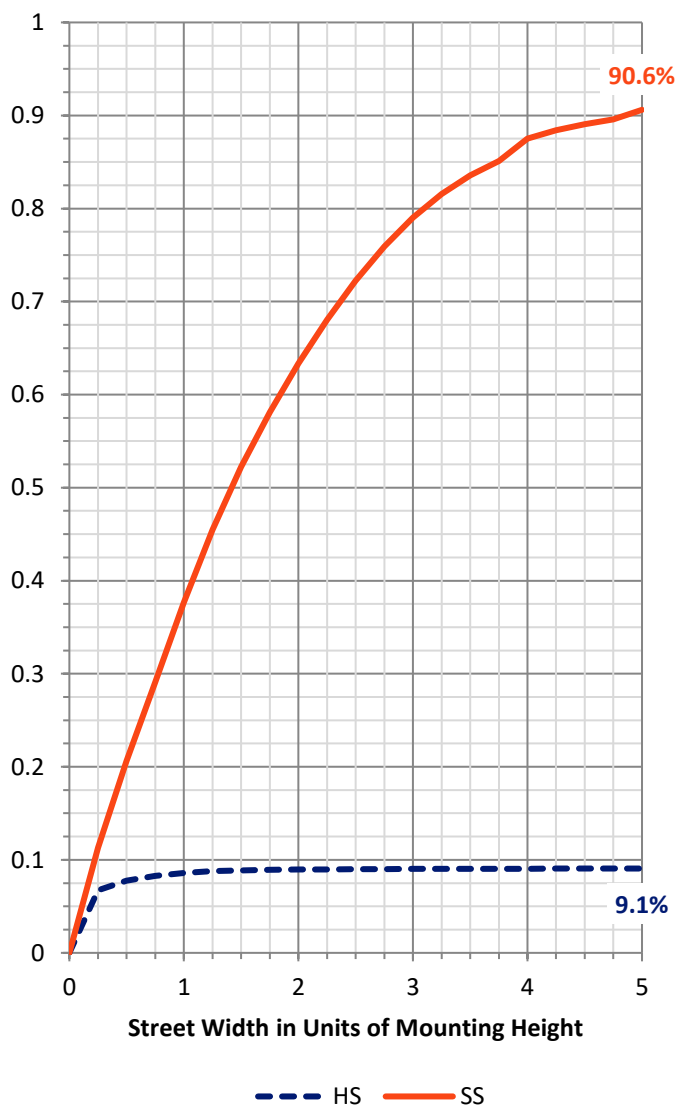
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2131.8	0.0	2131.8
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	21254.7	0.0	21254.7
	% Fixture	90.9	0.0	90.9
Total	Lumens	23386.5	0.0	23386.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.6	1.4
10°-20°	724.4	3.1
20°-30°	1085.3	4.6
30°-40°	1726.8	7.4
40°-50°	3083.6	13.2
50°-60°	4784.8	20.5
60°-70°	6360.7	27.2
70°-80°	4784.6	20.5
80°-90°	502.8	2.1
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°	23386.5	100.0
0°-180°	23386.5	100.0

Coefficient of Utilization

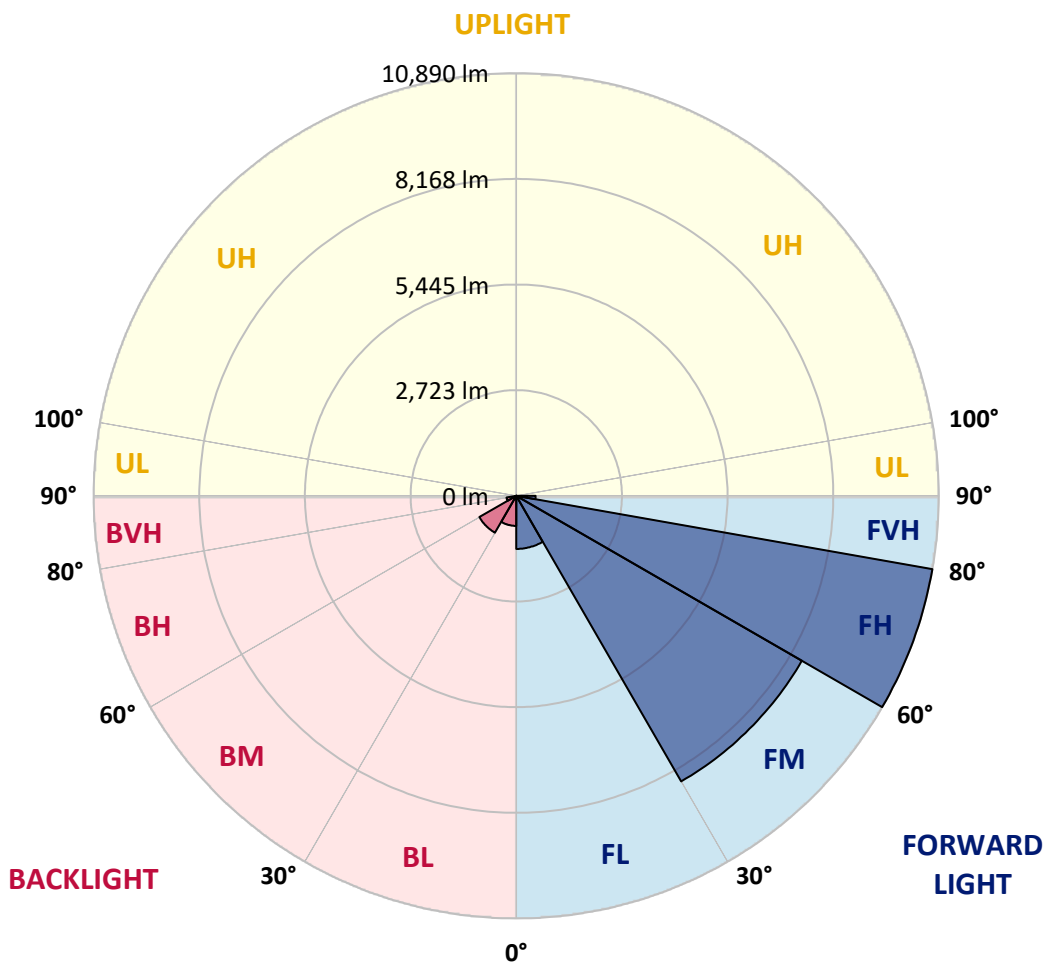


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1368.1	5.9			
FM (30°-60°)	8497.8	36.3			
FH (60°-80°)	10890.2	46.6			G4/12000
FVH (80°-90°)	498.5	2.1			G3/500
BL (0°-30°)	775.2	3.3	B2/1000		
BM (30°-60°)	1097.3	4.7	B2/2500		
BH (60°-80°)	255.1	1.1	B1/500		G1/500
BVH (80°-90°)	4.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	4023.7	4023.7	4023.7	4023.7	4023.7	4023.7	4023.7	4023.7	4023.7	4023.7	4023.7
2.5°	3813.1	3829.1	3846.4	3849.7	3878.3	3879.5	3920.7	3951.6	3982.5	4012.3	4022.5
5°	3421.8	3448.0	3479.0	3509.9	3570.5	3594.6	3695.3	3798.3	3896.7	3990.5	4036.3
7.5°	3004.1	3033.8	3077.3	3153.9	3221.5	3268.4	3427.4	3610.6	3793.6	3966.4	4066.0
10°	2623.0	2650.4	2696.2	2777.4	2881.6	2945.6	3159.7	3413.7	3682.7	3944.7	4110.6
12.5°	2380.4	2395.2	2420.4	2507.4	2601.3	2673.3	2925.1	3239.8	3591.1	3943.6	4182.7
15°	2335.7	2340.3	2319.6	2358.6	2431.8	2501.7	2756.8	3099.0	3521.3	3961.9	4276.6
17.5°	2406.7	2404.4	2335.7	2331.1	2389.5	2446.7	2674.5	3001.7	3472.1	4004.3	4397.9
20°	2514.2	2506.2	2387.2	2365.5	2427.2	2481.1	2668.7	2965.1	3453.8	4075.1	4545.6
22.5°	2657.3	2643.5	2457.0	2434.1	2500.5	2556.5	2739.7	3000.6	3469.8	4170.2	4717.2
25°	2834.7	2814.1	2577.2	2552.0	2619.5	2675.6	2866.7	3102.4	3517.9	4285.8	4934.6
27.5°	3035.0	3005.2	2769.4	2704.2	2780.9	2839.3	3036.1	3258.1	3593.4	4408.2	5201.3
30°	3223.8	3184.9	2972.0	2864.4	2958.2	3023.5	3219.1	3443.5	3714.7	4597.0	5566.4
32.5°	3413.7	3370.2	3152.8	3024.6	3109.3	3180.3	3408.0	3698.7	3942.4	4885.4	6051.5
35°	3850.9	3805.1	3538.5	3326.7	3325.6	3365.7	3672.3	4047.8	4243.4	5287.1	6630.7
37.5°	4586.8	4560.4	4306.4	3904.7	3797.1	3752.5	4032.9	4464.3	4676.0	5839.9	7284.1
40°	5392.4	5369.5	5084.6	4720.6	4556.9	4447.1	4550.1	5044.5	5287.1	6515.1	7951.2
42.5°	6302.2	6193.5	5685.3	5576.6	5430.2	5346.6	5253.9	5759.8	6037.8	7249.8	8612.7
45°	7128.5	6945.3	6286.2	6121.4	6088.2	6108.8	6160.3	6721.0	6882.4	8122.9	9271.9
47.5°	7620.5	7476.3	6970.5	6812.6	6803.5	6939.7	7328.7	7807.1	7723.6	8884.0	9852.1
50°	8088.6	7958.1	7538.2	7577.0	7619.4	7804.8	8655.1	8924.0	8491.4	9574.0	10384.2
52.5°	8467.4	8268.2	8048.6	8267.1	8475.4	8774.1	10023.7	9926.5	9036.1	10123.3	10839.7
55°	8685.9	8595.6	8702.0	8921.7	9313.1	9798.3	11315.8	10760.8	9434.4	10624.6	11143.0
57.5°	9487.1	9309.7	9521.3	9711.4	10221.8	10900.4	12422.4	11382.1	9721.6	10934.7	11212.8
60°	10456.3	10313.3	10438.0	10753.9	11442.9	12240.4	13457.0	11889.2	9871.5	11133.9	11031.9
62.5°	11999.0	11810.2	11732.4	12086.0	12999.2	13870.1	14242.0	12240.4	9838.4	11045.7	10411.7
65°	14065.8	13870.1	13522.2	13842.6	15004.2	15618.7	15119.8	12314.9	9609.5	10332.7	8843.9
67.5°	16182.9	16041.0	15743.4	16283.6	17331.9	17529.9	16047.9	12134.1	8872.5	8378.2	6248.4
70°	17581.4	17520.7	17714.1	18908.8	19843.8	19786.6	16899.3	11162.5	6915.6	5152.1	3091.0
72.5°	16573.2	16863.8	18292.1	20458.4	21600.4	21133.6	16462.1	8571.5	3952.7	1982.1	893.7
73°	15737.8	16109.6	18032.2	20516.7	21739.0	21227.4	16094.8	7867.8	3369.1	1564.3	677.5
75°	10948.5	11405.0	14928.6	19108.0	21091.2	20224.9	13415.8	4815.6	1561.0	693.5	273.5
77.5°	5315.7	5653.3	8220.2	13806.0	16402.6	15801.8	8351.8	1794.4	704.9	433.7	125.9
80°	1984.4	2206.4	3568.2	7026.6	9479.1	9727.4	3673.5	678.6	469.2	349.1	64.1
82.5°	519.5	579.0	1316.1	3133.4	4857.9	5084.6	1158.1	342.2	343.3	287.3	38.9
85°	165.9	189.9	410.8	1406.5	2288.8	2009.5	302.1	165.9	249.5	214.0	21.7
87.5°	20.6	26.4	130.4	330.7	504.7	280.4	46.9	49.2	106.4	119.1	12.6
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°	4023.7	4023.7	4023.7	4023.7	4023.7	4023.7	4023.7	4023.7	4023.7	4023.7	4023.7
2.5°	4032.9	4027.2	4028.3	3998.5	3979.1	3940.2	3900.1	3881.8	3862.3	3854.4	3862.3
5°	4053.4	4043.2	4013.4	3921.8	3824.6	3698.7	3580.8	3491.5	3379.4	3348.5	3380.6
7.5°	4085.5	4064.9	3977.9	3791.4	3575.1	3334.8	3064.7	2867.9	2706.5	2602.4	2640.1
10°	4132.4	4093.5	3918.4	3601.5	3214.6	2788.9	2405.5	2106.8	1895.1	1808.1	1804.7
12.5°	4211.3	4138.1	3845.1	3354.2	2774.1	2206.4	1704.0	1380.2	1208.5	1097.5	1095.2
15°	4298.3	4190.8	3752.5	3057.8	2261.3	1580.4	1097.5	851.4	740.4	704.9	700.3
17.5°	4404.8	4251.4	3632.3	2692.7	1724.6	1047.2	716.4	645.5	640.9	637.5	637.5
20°	4538.7	4323.5	3477.8	2275.0	1223.4	699.2	608.9	613.4	615.7	611.1	612.2
22.5°	4694.3	4396.8	3293.6	1826.5	827.4	584.8	582.5	588.2	590.5	588.2	589.4
25°	4875.2	4481.5	3069.3	1356.1	597.4	555.0	560.8	568.8	574.5	574.5	574.5
27.5°	5099.4	4584.4	2799.2	946.5	516.1	524.1	540.1	555.0	563.0	565.4	565.4
30°	5391.2	4712.6	2475.3	648.9	469.2	482.9	512.7	541.3	556.1	558.5	559.6
32.5°	5759.8	4856.8	2100.0	479.5	429.2	439.4	471.5	519.5	548.1	552.8	552.8
35°	6182.0	5023.9	1696.0	417.7	400.6	404.0	429.2	484.1	534.4	547.0	548.1
37.5°	6644.4	5188.7	1289.7	390.2	376.5	376.5	394.8	441.7	501.3	540.1	544.8
40°	7075.8	5288.2	904.1	368.5	354.7	354.7	370.8	405.1	461.2	519.5	532.1
42.5°	7474.1	5322.6	629.4	347.9	334.1	337.6	351.3	378.8	421.2	479.5	490.9
45°	7883.8	5316.9	458.9	323.9	313.6	323.9	334.1	354.7	385.7	418.8	421.2
47.5°	8192.8	5268.8	364.0	301.0	294.1	307.9	317.0	330.7	347.9	345.6	345.6
50°	8482.3	5152.1	293.0	270.1	274.6	290.6	295.3	299.9	301.0	279.3	276.9
52.5°	8702.0	4970.1	234.6	236.9	255.2	271.3	266.6	259.8	248.4	222.0	217.4
55°	8775.3	4619.9	184.3	195.7	226.6	247.2	230.0	215.2	193.4	171.7	167.1
57.5°	8642.4	4167.9	149.9	152.2	191.2	208.3	188.8	171.7	147.7	129.3	125.9
60°	8360.9	3665.5	123.6	114.4	147.7	162.5	149.9	132.7	111.0	97.3	96.1
62.5°	7802.5	3129.9	101.8	89.2	112.2	124.7	116.7	104.1	85.8	76.7	75.5
65°	6628.3	2503.9	82.4	72.1	87.0	97.3	90.5	81.2	67.5	60.6	59.5
67.5°	4626.8	1692.5	67.5	59.5	68.7	76.7	71.0	66.4	53.8	52.6	53.8
70°	2231.6	815.9	56.1	48.1	53.8	59.5	57.2	53.8	51.5	59.5	68.7
72.5°	639.7	273.5	44.6	40.1	43.5	46.9	49.2	48.1	56.1	72.1	83.6
73°	492.1	220.9	42.4	37.7	41.2	45.7	48.1	46.9	57.2	73.2	83.6
75°	210.5	106.4	32.0	30.9	34.4	40.1	42.4	42.4	57.2	74.4	80.1
77.5°	95.0	57.2	20.6	24.0	29.7	32.0	35.5	35.5	45.7	57.2	57.2
80°	53.8	30.9	16.0	18.4	21.7	21.7	21.7	19.5	20.6	22.9	25.2
82.5°	34.4	20.6	12.6	14.9	13.7	11.5	9.1	9.1	8.0	9.1	11.5
85°	19.5	11.5	11.5	9.1	5.7	4.6	5.7	4.6	1.1	0.0	1.1
87.5°	11.5	6.9	3.4	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)