

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: P453738

Luminaire Tested: **GALN-SA4D-740-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25173 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

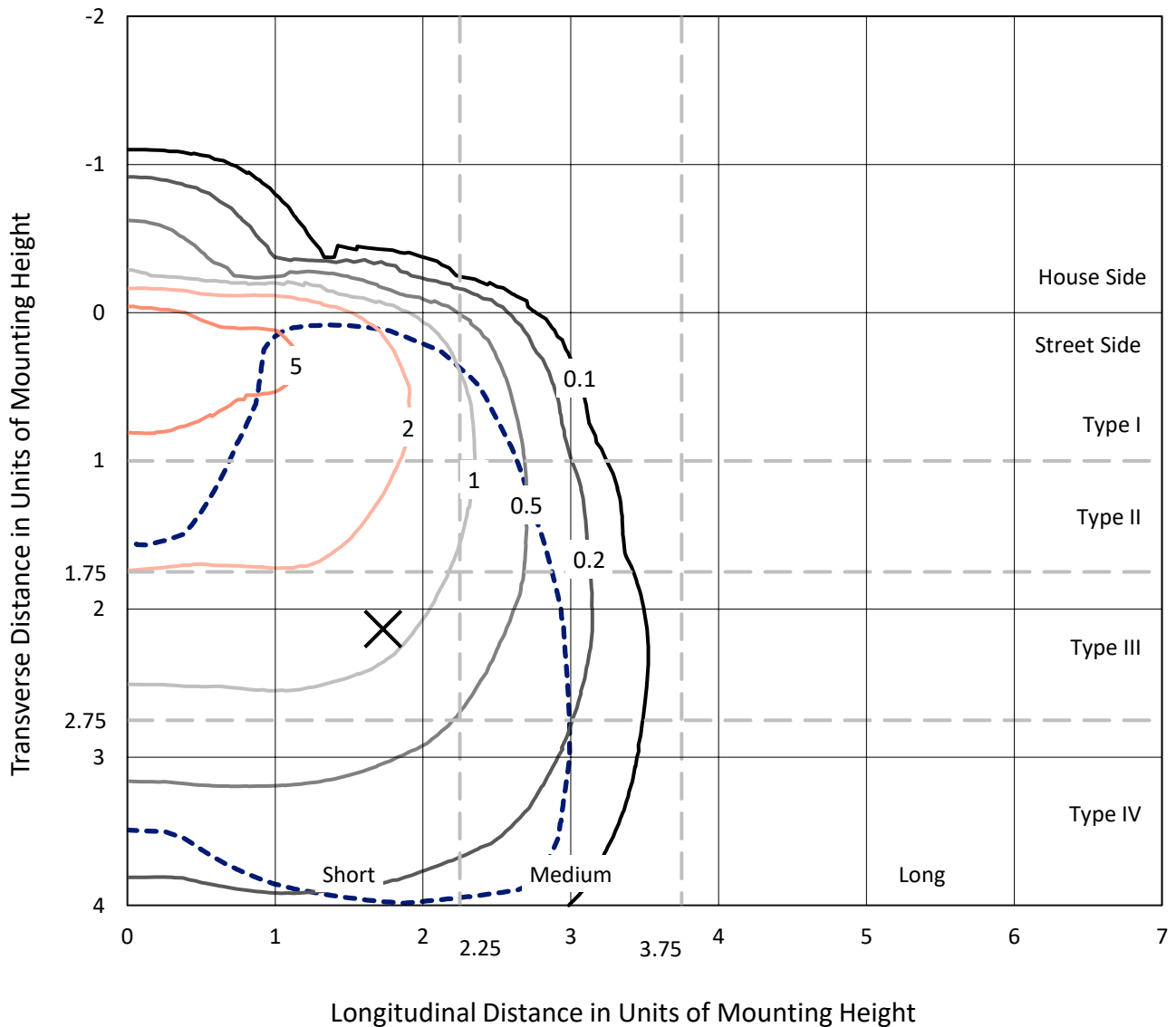
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

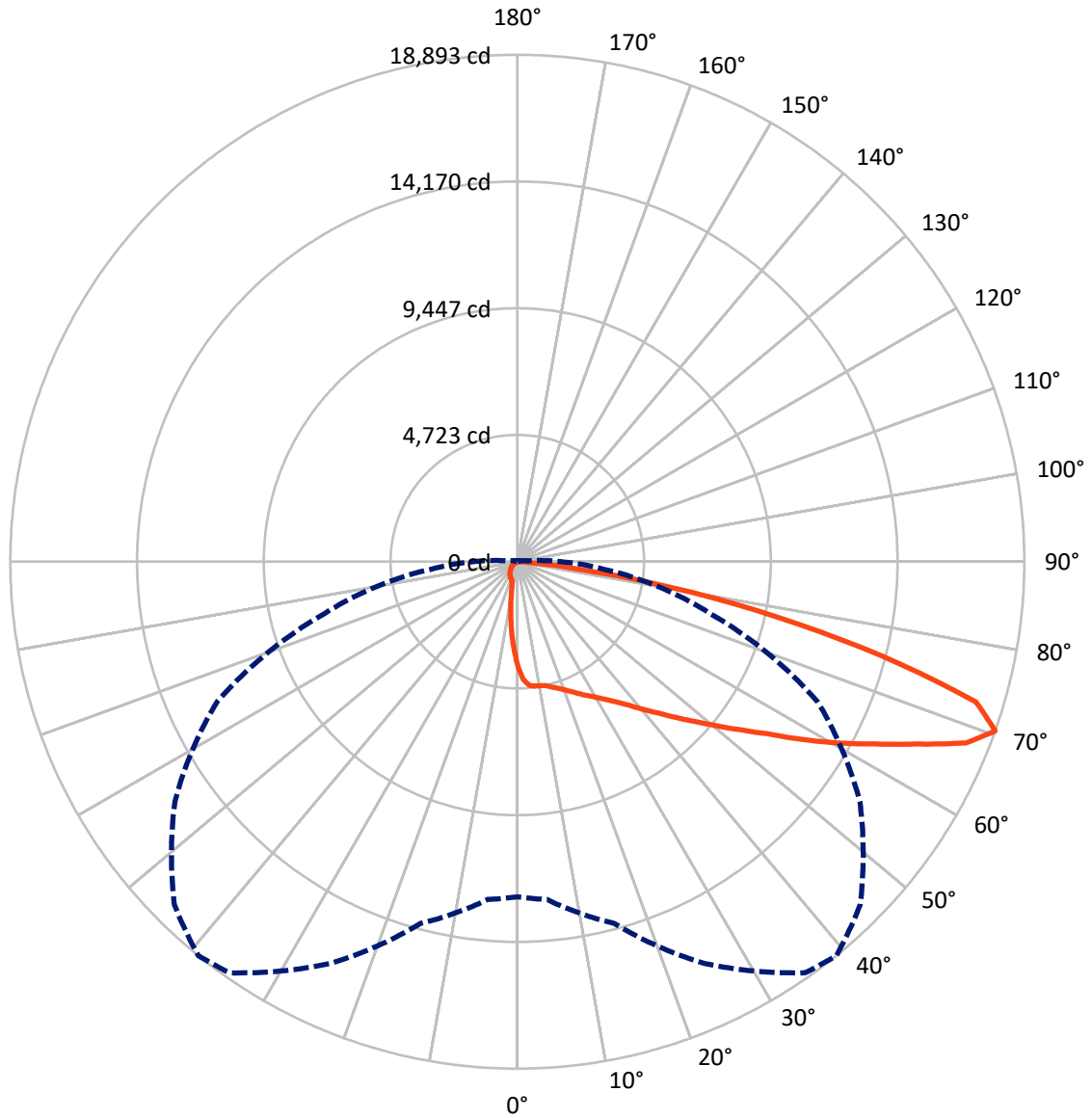
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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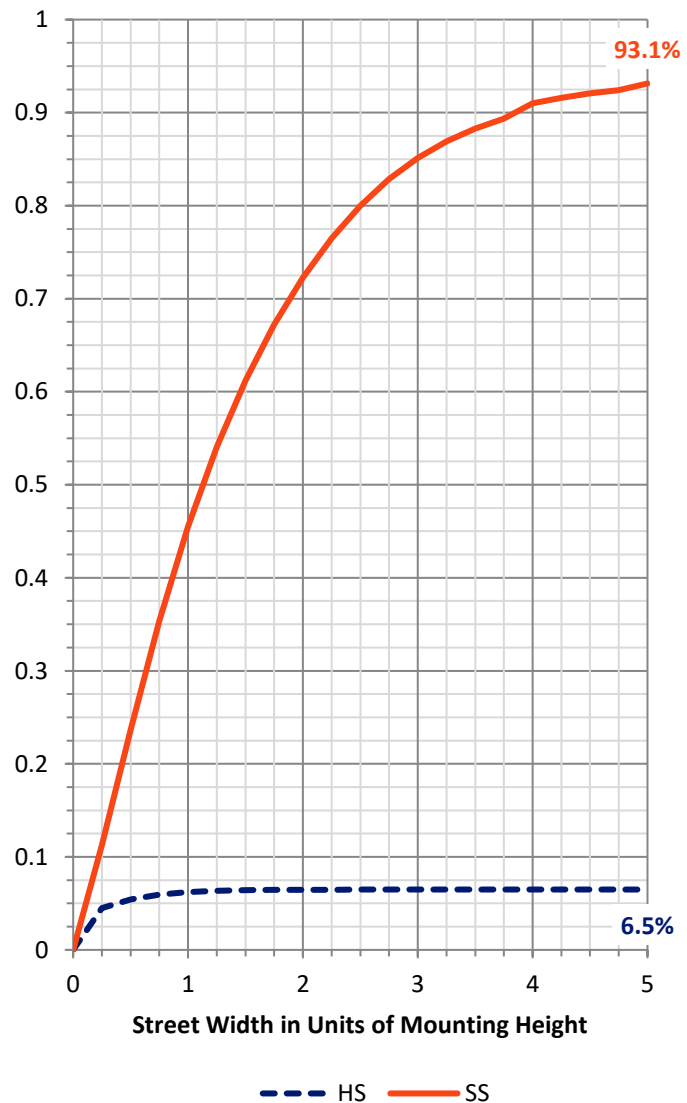
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1641.4	0.0	1641.4
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	23531.6	0.0	23531.6
	% Fixture	93.5	0.0	93.5
Total	Lumens	25173.0	0.0	25173.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.0	1.3
10°-20°	870.6	3.5
20°-30°	1458.5	5.8
30°-40°	2262.0	9.0
40°-50°	3584.6	14.2
50°-60°	5254.5	20.9
60°-70°	6734.9	26.8
70°-80°	4232.0	16.8
80°-90°	440.9	1.8
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°	25173.0	100.0
0°-180°	25173.0	100.0



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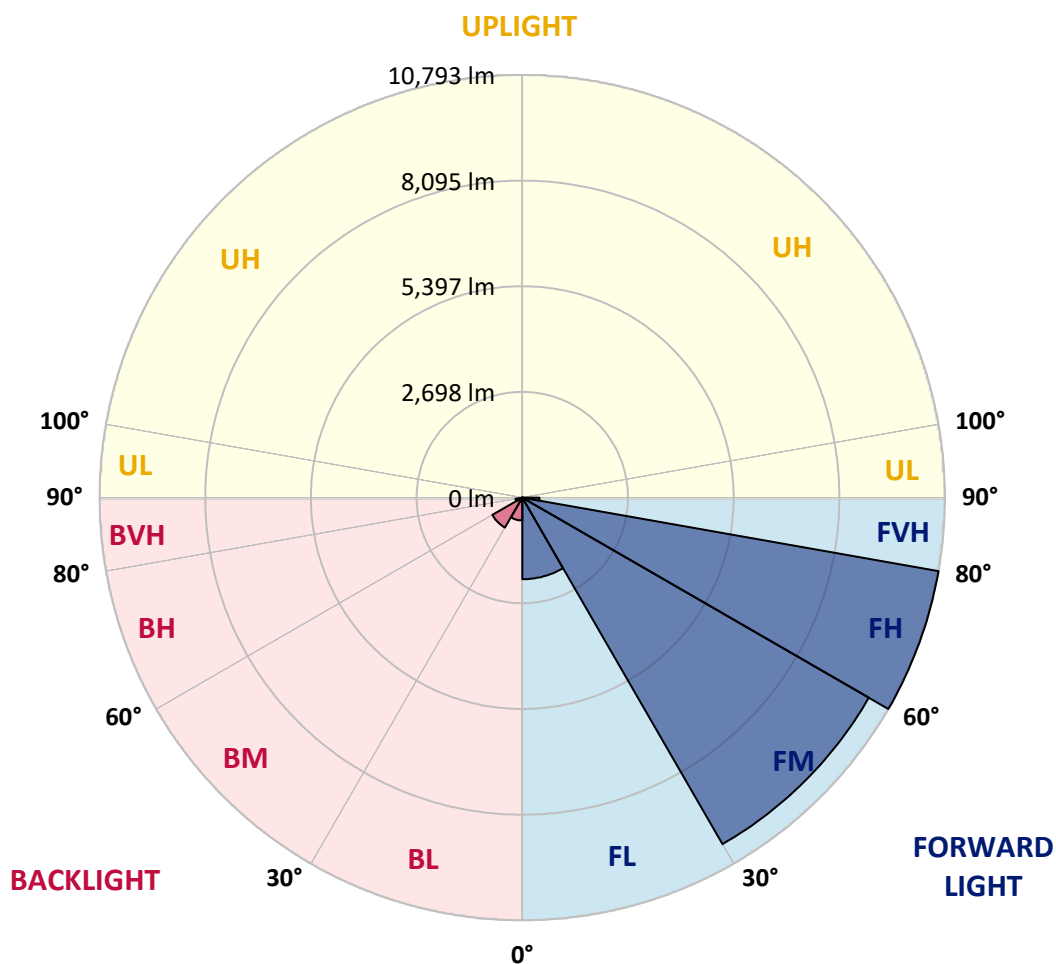
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2082.9	8.3			
FM	(30°-60°)	10217.7	40.6			
FH	(60°-80°)	10793.4	42.9			G4/12000
FVH	(80°-90°)	437.6	1.7			G3/500
BL	(0°-30°)	581.2	2.3	B2/1000		
BM	(30°-60°)	883.4	3.5	B1/1000		
BH	(60°-80°)	173.6	0.7	B1/500		G1/500
BVH	(80°-90°)	3.3	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°	35°	39°	45°	55°	65°	75°	85°
0°	3927.9	3927.9	3927.9	3927.9	3927.9	3927.9	3927.9	3927.9	3927.9	3927.9	3927.9
2.5°	4538.5	4523.3	4503.0	4479.3	4411.6	4399.8	4359.2	4272.9	4169.7	4085.2	3968.4
5°	4753.3	4761.8	4746.6	4704.3	4655.2	4626.5	4575.7	4442.1	4308.5	4137.6	3946.5
7.5°	4802.4	4819.3	4800.7	4760.1	4712.7	4682.3	4641.7	4526.7	4371.0	4176.5	3914.3
10°	4797.3	4817.6	4805.8	4768.6	4729.7	4700.9	4656.9	4565.6	4440.4	4235.7	3924.5
12.5°	4788.9	4815.9	4814.2	4795.6	4763.5	4741.5	4714.4	4633.2	4516.5	4322.0	3980.3
15°	4765.2	4799.0	4829.5	4844.7	4846.4	4846.4	4812.5	4726.3	4614.6	4435.3	4053.0
17.5°	4775.3	4814.2	4890.4	4934.3	4964.8	4961.4	4925.9	4832.8	4709.4	4552.0	4129.1
20°	4837.9	4890.4	4996.9	5084.9	5115.3	5105.2	5057.8	4949.6	4809.2	4651.8	4203.6
22.5°	4991.9	5039.2	5172.9	5276.0	5298.0	5271.0	5203.3	5056.1	4929.3	4760.1	4293.2
25°	5221.9	5277.7	5401.2	5479.0	5479.0	5463.8	5369.1	5196.5	5064.6	4910.7	4410.0
27.5°	5501.0	5548.4	5670.2	5739.5	5698.9	5655.0	5560.2	5352.2	5225.3	5100.1	4550.4
30°	5783.5	5814.0	5942.5	5973.0	5930.7	5874.9	5773.4	5565.3	5453.7	5357.2	4753.3
32.5°	6050.8	6116.8	6223.3	6216.6	6159.0	6132.0	6038.9	5817.3	5754.8	5744.6	5037.5
35°	6318.1	6368.8	6463.5	6487.2	6436.5	6431.4	6363.7	6199.6	6201.3	6267.3	5480.7
37.5°	6548.1	6593.8	6705.4	6757.9	6768.0	6793.4	6766.3	6658.1	6812.0	6993.0	6067.7
40°	6741.0	6805.2	6947.3	7038.7	7143.5	7236.6	7241.7	7265.3	7574.9	7886.2	6834.0
42.5°	6891.5	6981.2	7187.5	7356.7	7596.9	7715.3	7810.0	7940.3	8461.3	8926.5	7737.3
45°	7087.7	7190.9	7448.0	7713.6	8089.1	8283.7	8415.6	8764.1	9503.3	10137.6	8664.3
47.5°	7412.5	7466.6	7728.8	8116.2	8610.1	8887.6	9144.7	9672.5	10621.4	11189.8	9435.6
50°	7830.3	7865.9	8063.8	8601.7	9241.1	9606.5	10075.1	10695.9	11781.9	12062.7	9872.1
52.5°	8292.1	8304.0	8452.8	9136.2	9948.2	10408.3	10932.7	11699.0	12727.5	12685.2	10161.3
55°	8828.4	8811.4	8938.3	9716.4	10785.5	11311.6	11922.3	12725.8	13547.9	13126.7	10327.1
57.5°	9442.4	9396.7	9520.2	10486.1	11858.0	12487.3	13108.1	13612.2	14183.9	13497.1	10406.6
60°	10085.2	9993.9	10141.0	11350.5	13121.6	13718.7	14234.7	14370.0	14853.8	13791.5	10269.6
62.5°	10597.8	10599.4	10873.5	12270.7	14420.7	14943.4	15217.5	15339.3	15430.6	13727.2	9549.0
65°	11397.9	11424.9	11863.1	13547.9	15924.5	16377.9	16565.7	16169.8	15456.0	12928.8	8466.4
67.5°	12223.4	12309.6	13111.4	15307.1	17661.8	18027.2	17785.3	16330.5	14765.8	11106.9	6419.6
70°	12492.3	12634.4	13955.5	16518.3	18703.8	18893.3	18074.5	15581.2	12343.5	7426.0	3230.9
72.5°	11446.9	11677.0	13470.1	16076.8	18039.0	17874.9	16171.5	13067.5	7847.2	2819.9	986.2
75°	8072.2	8173.7	11194.9	13336.4	14508.7	14043.5	12301.2	8424.1	3227.5	791.7	338.3
77.5°	4168.1	4119.0	6658.1	8848.7	10347.4	9865.3	8055.3	4360.9	1223.0	329.9	209.8
80°	2155.1	2190.6	2880.8	4636.6	6316.4	5812.3	4294.9	2021.4	651.3	182.7	160.7
82.5°	1207.8	1133.4	1656.1	2024.8	2953.5	2315.8	1647.6	1431.1	284.2	110.0	152.2
85°	219.9	230.1	908.4	1094.5	1025.1	651.3	531.2	955.7	82.9	60.9	106.6
87.5°	3.4	3.4	175.9	314.6	199.6	91.3	167.5	137.0	16.9	23.7	18.6
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°	3927.9	3927.9	3927.9	3927.9	3927.9	3927.9	3927.9	3927.9	3927.9	3927.9	3927.9
2.5°	3909.2	3845.0	3724.9	3606.5	3455.9	3332.4	3249.5	3163.3	3075.3	3082.1	3102.4
5°	3841.6	3729.9	3493.1	3242.8	3002.6	2786.0	2572.9	2381.7	2303.9	2232.9	2236.3
7.5°	3773.9	3616.6	3269.8	2877.4	2513.7	2144.9	1877.7	1657.7	1541.0	1453.1	1427.7
10°	3743.5	3535.4	3065.1	2525.5	2009.6	1607.0	1263.6	1084.3	945.6	901.6	913.5
12.5°	3757.0	3494.8	2880.8	2207.5	1593.5	1119.8	879.6	788.3	757.8	752.8	749.4
15°	3782.4	3466.0	2699.8	1855.7	1170.6	832.3	739.2	722.3	718.9	715.5	717.2
17.5°	3816.2	3440.7	2506.9	1525.8	898.2	727.4	700.3	691.9	690.2	690.2	690.2
20°	3850.0	3411.9	2292.1	1231.5	749.4	686.8	669.9	664.8	663.1	663.1	661.4
22.5°	3888.9	3386.5	2073.9	967.6	690.2	658.0	642.8	639.4	637.7	636.0	636.0
25°	3944.8	3354.4	1842.1	791.7	653.0	631.0	615.7	612.4	610.7	603.9	605.6
27.5°	4019.2	3330.7	1603.6	683.4	619.1	597.1	587.0	581.9	578.5	573.4	575.1
30°	4120.7	3310.4	1349.9	624.2	580.2	561.6	551.5	548.1	544.7	539.6	539.6
32.5°	4296.6	3318.9	1082.6	576.8	544.7	522.7	512.5	509.2	505.8	500.7	500.7
35°	4560.5	3367.9	866.1	536.2	502.4	480.4	470.3	470.3	465.2	458.4	456.7
37.5°	4991.9	3493.1	695.2	497.3	461.8	441.5	429.7	426.3	421.2	411.1	409.4
40°	5501.0	3687.6	585.3	458.4	424.6	404.3	394.1	384.0	370.5	360.3	358.6
42.5°	6140.4	3887.3	507.5	419.5	389.1	370.5	358.6	341.7	321.4	307.9	306.2
45°	6806.9	4069.9	455.0	384.0	355.2	340.0	326.5	299.4	274.0	257.1	255.4
47.5°	7304.2	4103.8	412.7	350.2	326.5	311.3	292.6	258.8	225.0	209.8	204.7
50°	7539.4	3939.7	368.8	316.3	297.7	280.8	257.1	218.2	181.0	162.4	159.0
52.5°	7622.3	3655.5	333.2	285.9	269.0	248.7	219.9	175.9	142.1	123.5	121.8
55°	7588.4	3296.9	301.1	257.1	235.1	211.4	182.7	140.4	104.9	89.7	86.3
57.5°	7410.8	2840.2	269.0	228.4	201.3	177.6	145.5	104.9	71.0	57.5	55.8
60°	6932.1	2217.7	236.8	196.2	170.8	145.5	115.0	74.4	44.0	32.1	32.1
62.5°	6123.5	1645.9	206.4	164.1	143.8	116.7	81.2	47.4	23.7	16.9	15.2
65°	5117.0	1214.6	172.5	138.7	120.1	91.3	57.5	28.8	11.8	5.1	3.4
67.5°	3570.9	749.4	143.8	113.3	98.1	66.0	35.5	11.8	5.1	0.0	0.0
70°	1622.2	356.9	110.0	86.3	74.4	47.4	18.6	6.8	3.4	0.0	0.0
72.5°	504.1	187.8	77.8	62.6	50.7	30.4	10.1	5.1	3.4	0.0	0.0
75°	233.4	120.1	49.1	33.8	28.8	15.2	6.8	3.4	1.7	0.0	0.0
77.5°	174.2	93.0	28.8	18.6	15.2	10.1	5.1	3.4	1.7	0.0	0.0
80°	152.2	47.4	16.9	11.8	8.5	6.8	3.4	1.7	0.0	0.0	0.0
82.5°	137.0	23.7	10.1	6.8	5.1	3.4	1.7	1.7	0.0	0.0	0.0
85°	74.4	13.5	6.8	5.1	3.4	1.7	1.7	0.0	0.0	0.0	0.0
87.5°	13.5	6.8	5.1	3.4	3.4	1.7	1.7	1.7	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)