

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: P651396

Luminaire Tested: **GALN-SA5D-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651396
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26664.7 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

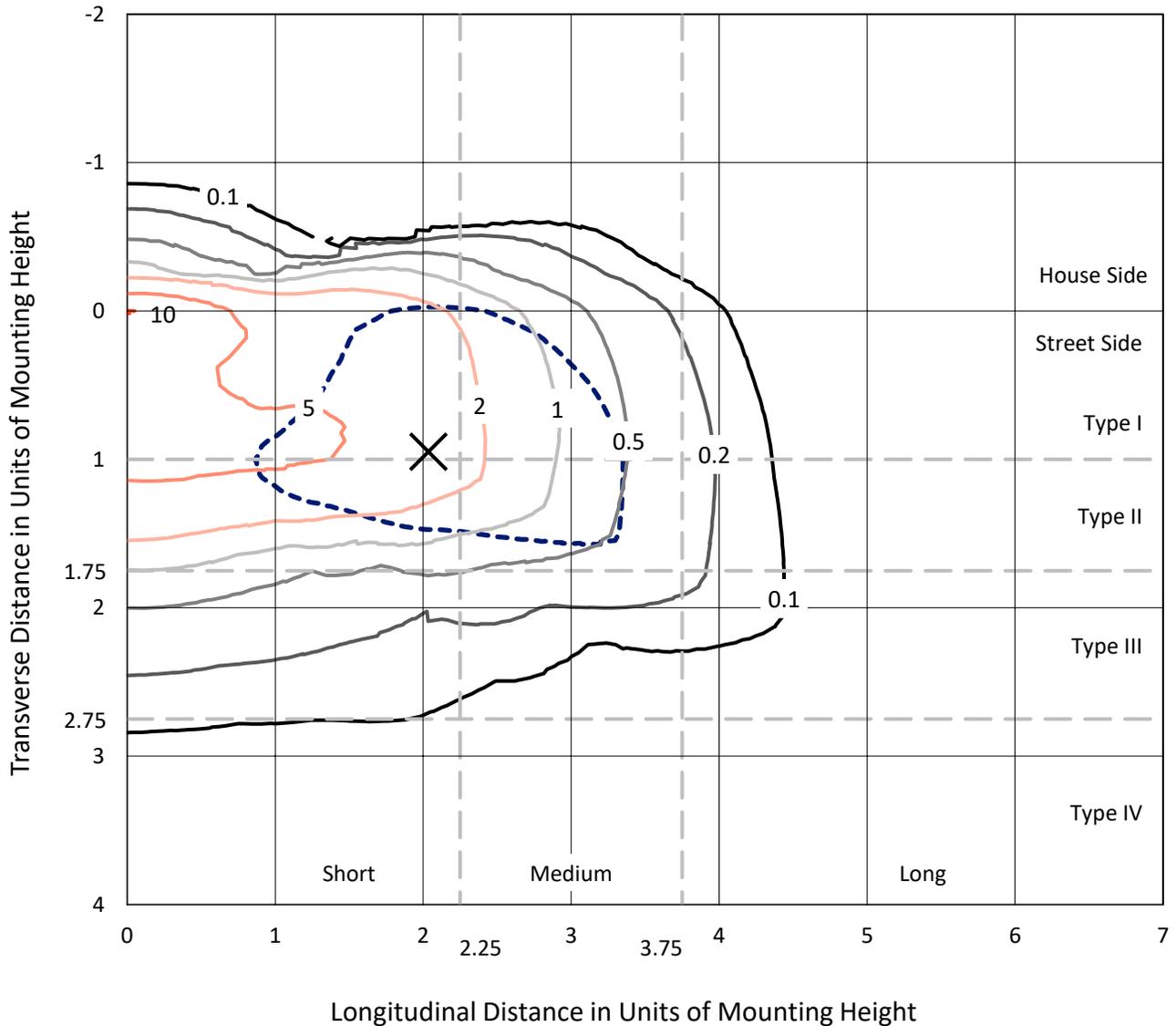
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

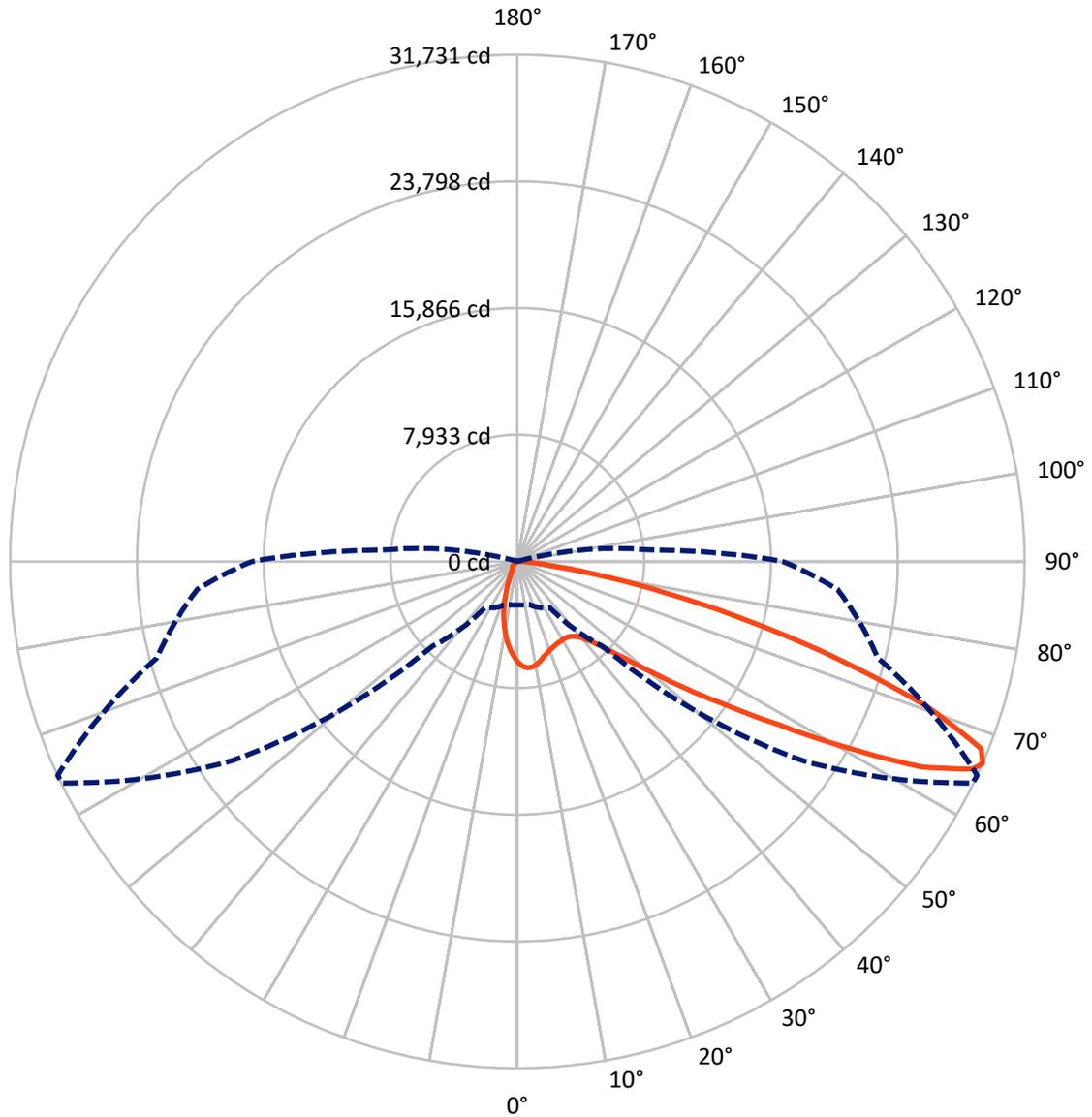
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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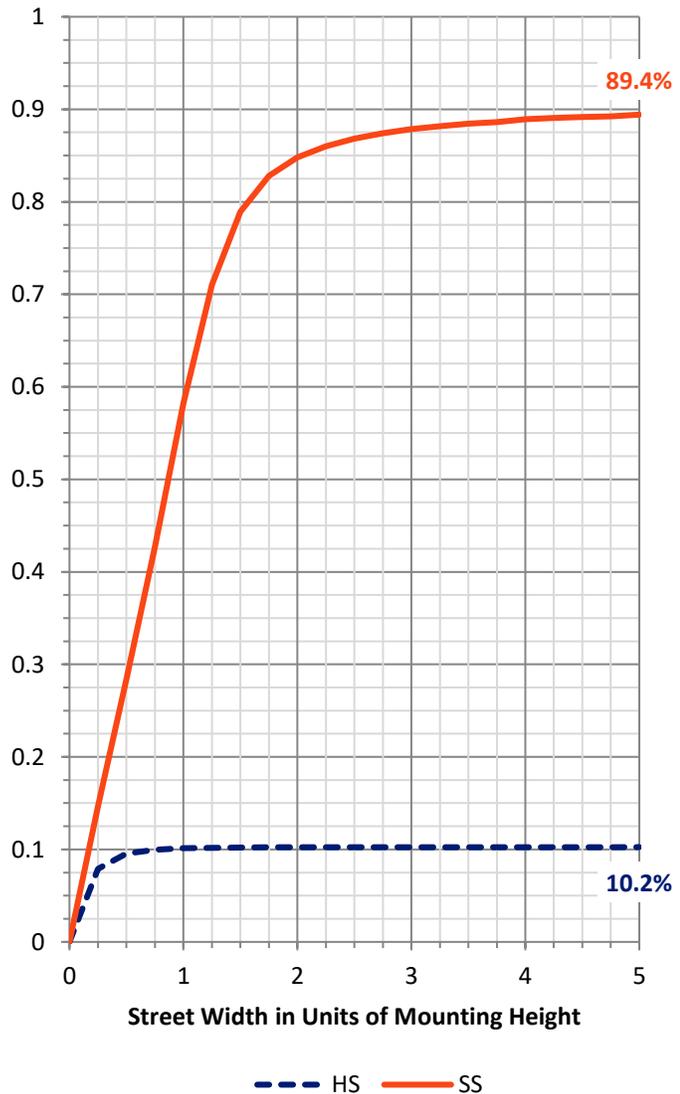
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2757.5	0.0	2757.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	23907.2	0.0	23907.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	26664.7	0.0	26664.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.1	1.9
10°-20°	1126.8	4.2
20°-30°	1614.1	6.1
30°-40°	2357.5	8.8
40°-50°	3953.2	14.8
50°-60°	6597.2	24.7
60°-70°	7002.7	26.3
70°-80°	3171.5	11.9
80°-90°	324.5	1.2
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°	26664.7	100.0
0°-180°	26664.7	100.0

Coefficient of Utilization

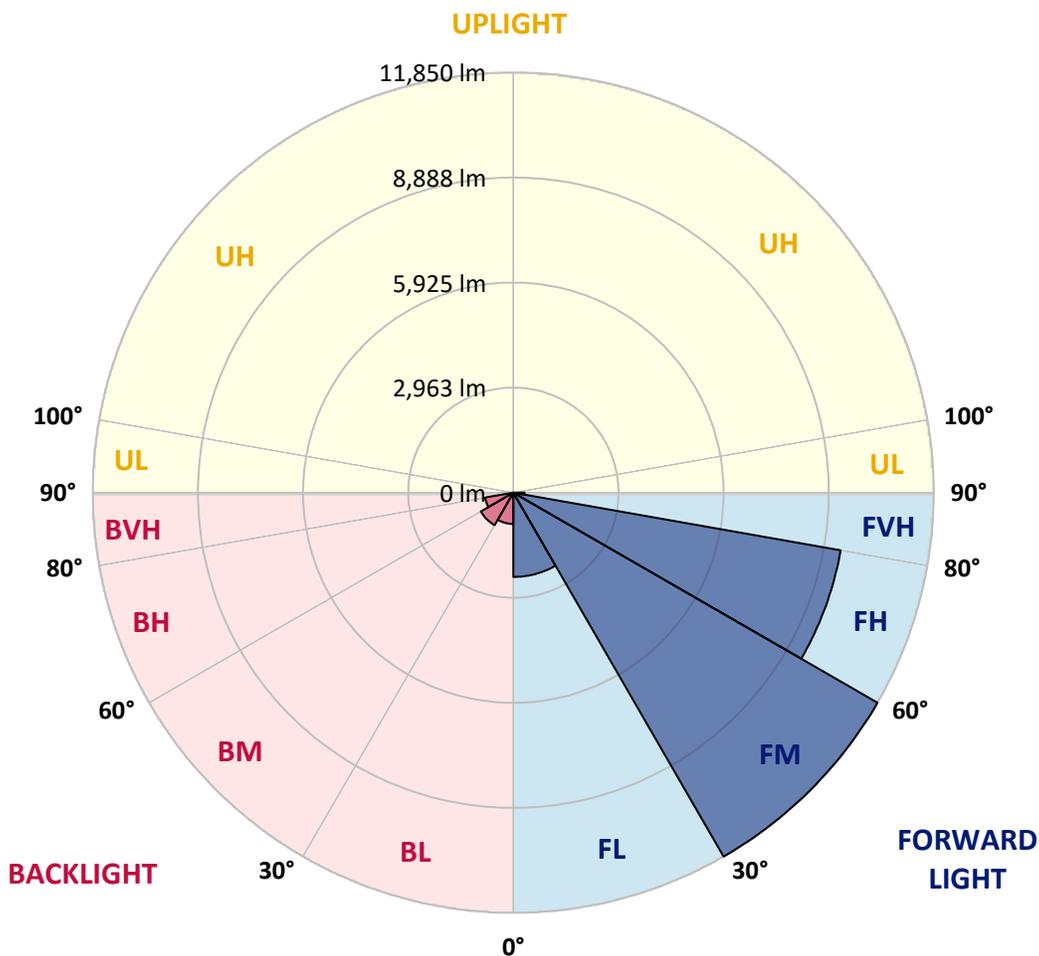


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2375.9	8.9			
FM (30°-60°)	11850.4	44.4			
FH (60°-80°)	9366.7	35.1			G4/12000
FVH (80°-90°)	314.2	1.2			G3/500
BL (0°-30°)	882.1	3.3	B2/1000		
BM (30°-60°)	1057.5	4.0	B2/2500		
BH (60°-80°)	807.5	3.0	B2/1000		G2/1000
BVH (80°-90°)	10.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6323.2	6323.2	6323.2	6323.2	6323.2	6323.2	6323.2	6323.2	6323.2	6323.2	6323.2
2.5°	6663.6	6670.8	6679.8	6692.4	6701.4	6674.3	6636.6	6593.4	6584.4	6492.5	6380.8
5°	6307.0	6317.8	6397.1	6440.3	6537.5	6625.7	6681.6	6688.8	6685.2	6598.7	6420.4
7.5°	5799.1	5829.7	5907.2	5982.8	6164.7	6332.2	6530.3	6669.0	6678.0	6654.6	6433.1
10°	5386.7	5406.5	5446.1	5595.6	5746.9	6002.6	6280.0	6541.1	6562.7	6656.3	6422.2
12.5°	5064.3	5093.1	5141.8	5257.0	5438.9	5680.3	5995.4	6346.6	6391.6	6622.1	6391.6
15°	4839.2	4853.6	4902.3	5015.7	5192.2	5415.5	5734.3	6143.1	6182.7	6577.1	6386.2
17.5°	4733.0	4749.1	4783.4	4873.4	5019.3	5226.4	5538.0	5979.2	6029.6	6548.3	6406.1
20°	4761.7	4776.1	4778.0	4824.8	4923.8	5098.6	5393.9	5826.1	5891.0	6530.3	6438.4
22.5°	4925.7	4927.4	4905.8	4884.2	4918.4	5044.5	5305.6	5728.9	5795.5	6526.7	6476.3
25°	5170.6	5176.0	5139.9	5064.3	4995.9	5060.7	5285.9	5665.8	5725.3	6517.7	6499.7
27.5°	5509.1	5507.4	5496.5	5370.5	5176.0	5132.8	5302.1	5631.6	5682.0	6492.5	6508.7
30°	5982.8	5968.4	5945.0	5802.7	5505.5	5307.5	5370.5	5610.0	5656.8	6456.4	6485.3
32.5°	6449.3	6503.3	6499.7	6364.6	5993.6	5619.1	5512.8	5638.8	5673.0	6433.1	6451.1
35°	6993.2	6991.3	7130.0	7079.6	6645.6	6017.0	5755.9	5734.3	5761.3	6449.3	6434.8
37.5°	7497.4	7544.3	7760.3	7812.6	7416.4	6578.9	6099.9	5939.6	5948.6	6559.1	6474.4
40°	8126.0	8216.0	8538.4	8713.1	8363.7	7412.7	6607.7	6316.0	6317.8	6829.3	6624.0
42.5°	8936.4	9078.7	9379.4	9671.2	9483.9	8399.7	7369.5	6912.1	6908.5	7304.8	6966.2
45°	9921.5	10020.6	10362.8	10825.6	10706.8	9777.5	8479.0	7836.0	7789.2	8084.5	7573.0
47.5°	10771.6	10906.7	11254.3	11781.9	12322.2	11459.6	9804.5	9105.7	9075.1	9325.4	8614.0
50°	11142.6	11261.4	11627.1	12367.2	13676.5	13667.5	11778.3	10958.9	10906.7	11041.7	10224.1
52.5°	10735.5	10847.2	11216.4	12138.5	14314.1	16358.2	14638.3	13283.9	13220.9	13048.0	12147.5
55°	9341.6	9433.5	9979.1	11038.1	14069.2	18152.0	18578.8	16156.5	15911.6	15239.8	14324.9
57.5°	7438.0	7391.1	7729.7	8959.8	12632.0	18753.5	22623.7	19735.0	19297.3	17134.4	16167.3
60°	5154.4	5298.5	5435.3	6245.8	9498.3	17710.7	25139.7	24233.8	23657.5	18998.4	17932.2
62.5°	3789.2	3884.7	3974.7	4349.3	5972.0	14141.2	25584.6	28855.1	28343.6	20977.7	19616.2
65°	2996.8	3004.1	3040.0	3409.2	3935.1	9195.7	23446.8	31461.1	31329.6	22883.1	20298.7
66°	2730.3	2732.1	2787.9	3184.1	3531.7	7488.4	21734.0	31659.2	31731.3	23340.5	20098.8
67.5°	2386.3	2379.1	2460.1	2861.8	3216.5	5399.3	18668.9	30856.0	31282.8	23691.7	19380.2
70°	1849.6	1840.6	1939.7	2400.7	2962.6	3601.9	12408.7	26494.0	27182.0	22973.1	17147.0
72.5°	1231.9	1239.0	1408.3	1894.6	2827.5	3171.5	7465.0	20154.6	21127.2	18971.4	13489.2
75°	718.6	731.2	923.9	1408.3	2454.7	3023.8	4225.1	14371.7	14993.0	13100.3	8403.3
77.5°	376.4	381.8	516.9	929.3	1882.0	2807.7	2814.9	9181.4	9473.1	6366.5	3326.4
80°	199.9	194.5	277.4	560.1	1294.9	2465.6	2283.7	4860.8	5053.5	1891.0	841.1
82.5°	75.6	82.8	147.7	367.4	765.4	1770.4	1966.7	2148.6	2081.9	416.0	353.0
85°	14.4	18.0	63.1	217.9	385.4	740.2	1449.8	1053.6	976.1	156.7	203.5
87.5°	1.8	3.6	18.0	52.2	55.8	250.4	428.7	291.7	252.1	57.6	84.6
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°	6323.2	6323.2	6323.2	6323.2	6323.2	6323.2	6323.2	6323.2	6323.2	6323.2	6323.2
2.5°	6326.8	6278.1	6116.1	5955.8	5791.9	5644.2	5543.4	5379.5	5338.1	5278.6	5244.4
5°	6314.2	6200.7	5889.2	5548.7	5231.8	4889.7	4628.4	4376.3	4241.2	4172.9	4147.6
7.5°	6278.1	6098.1	5611.8	5078.7	4570.8	4059.3	3614.5	3275.9	3058.0	2908.6	2807.7
10°	6206.2	5957.6	5289.5	4556.5	3789.2	3113.9	2550.2	2121.5	1790.2	1685.7	1689.3
12.5°	6132.3	5800.9	4929.3	3976.5	3025.7	2173.7	1575.9	1237.3	1078.8	1026.5	1015.8
15°	6063.9	5651.4	4576.2	3414.6	2253.0	1408.3	1015.8	896.8	853.7	844.6	842.9
17.5°	6027.9	5512.8	4199.9	2771.7	1572.2	956.3	814.0	781.6	769.0	760.0	756.4
20°	5997.3	5392.1	3839.7	2170.2	1075.2	783.4	729.4	698.8	677.2	668.2	662.8
22.5°	5975.6	5267.9	3466.9	1680.3	823.0	695.2	646.6	606.9	576.3	565.5	558.3
25°	5943.2	5130.9	3090.4	1228.3	693.4	617.7	561.9	515.1	475.4	455.7	452.0
27.5°	5896.3	4976.1	2678.0	909.5	619.6	549.3	480.9	423.2	383.6	362.0	363.8
30°	5820.7	4814.0	2265.7	722.2	560.1	479.0	405.2	349.4	311.6	295.4	293.6
32.5°	5730.7	4617.7	1887.4	619.6	506.0	416.0	338.6	290.0	261.1	248.5	246.7
35°	5646.1	4419.5	1502.0	556.5	450.3	358.4	284.6	243.1	221.5	210.8	212.5
37.5°	5599.2	4243.1	1170.6	506.0	405.2	308.0	244.9	208.9	189.1	180.1	178.3
40°	5629.8	4099.0	931.1	461.0	354.8	264.7	210.8	180.1	160.3	147.7	147.7
42.5°	5773.9	4036.0	751.0	417.8	308.0	228.8	183.7	154.9	133.3	120.7	122.4
45°	6213.3	4102.6	628.6	378.2	264.7	198.1	158.4	127.8	108.1	99.1	97.2
47.5°	6942.7	4352.9	543.9	336.8	226.9	169.3	133.3	106.2	86.5	79.2	77.5
50°	8217.8	4869.8	480.9	295.4	192.7	144.1	109.8	84.6	68.5	61.2	61.2
52.5°	9972.0	5997.3	435.8	248.5	162.1	122.4	90.1	68.5	54.0	48.6	46.8
55°	11805.4	7185.8	412.4	208.9	135.1	100.8	72.1	54.0	41.5	36.0	34.2
57.5°	13568.5	8118.8	385.4	169.3	108.1	77.5	55.8	41.5	28.8	25.2	23.4
60°	15259.6	8873.4	327.7	135.1	84.6	55.8	41.5	28.8	19.8	16.2	16.2
62.5°	16772.4	9312.8	257.5	108.1	64.8	39.6	27.0	21.6	14.4	10.8	10.8
65°	16948.9	8741.9	194.5	82.8	46.8	25.2	16.2	16.2	10.8	7.2	7.2
66°	16594.1	8257.4	171.1	75.6	41.5	21.6	14.4	12.6	9.0	5.4	5.4
67.5°	15801.7	7430.8	147.7	64.8	34.2	16.2	10.8	10.8	7.2	3.6	3.6
70°	13653.1	6069.2	117.1	48.6	25.2	12.6	7.2	7.2	5.4	3.6	3.6
72.5°	10405.9	4531.2	95.5	36.0	18.0	9.0	5.4	5.4	5.4	3.6	3.6
75°	6276.4	2440.3	73.8	27.0	16.2	7.2	3.6	5.4	7.2	5.4	3.6
77.5°	2312.4	830.2	57.6	21.6	12.6	7.2	3.6	3.6	7.2	5.4	5.4
80°	567.3	216.1	41.5	18.0	12.6	7.2	3.6	3.6	7.2	7.2	7.2
82.5°	263.0	91.8	28.8	16.2	12.6	7.2	3.6	3.6	5.4	7.2	7.2
85°	151.3	43.2	23.4	18.0	12.6	7.2	3.6	3.6	5.4	7.2	7.2
87.5°	61.2	21.6	21.6	18.0	14.4	9.0	3.6	3.6	3.6	5.4	5.4
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)