

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: P651154

Luminaire Tested: **GALN-SA9C-840-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 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: 38597.7 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

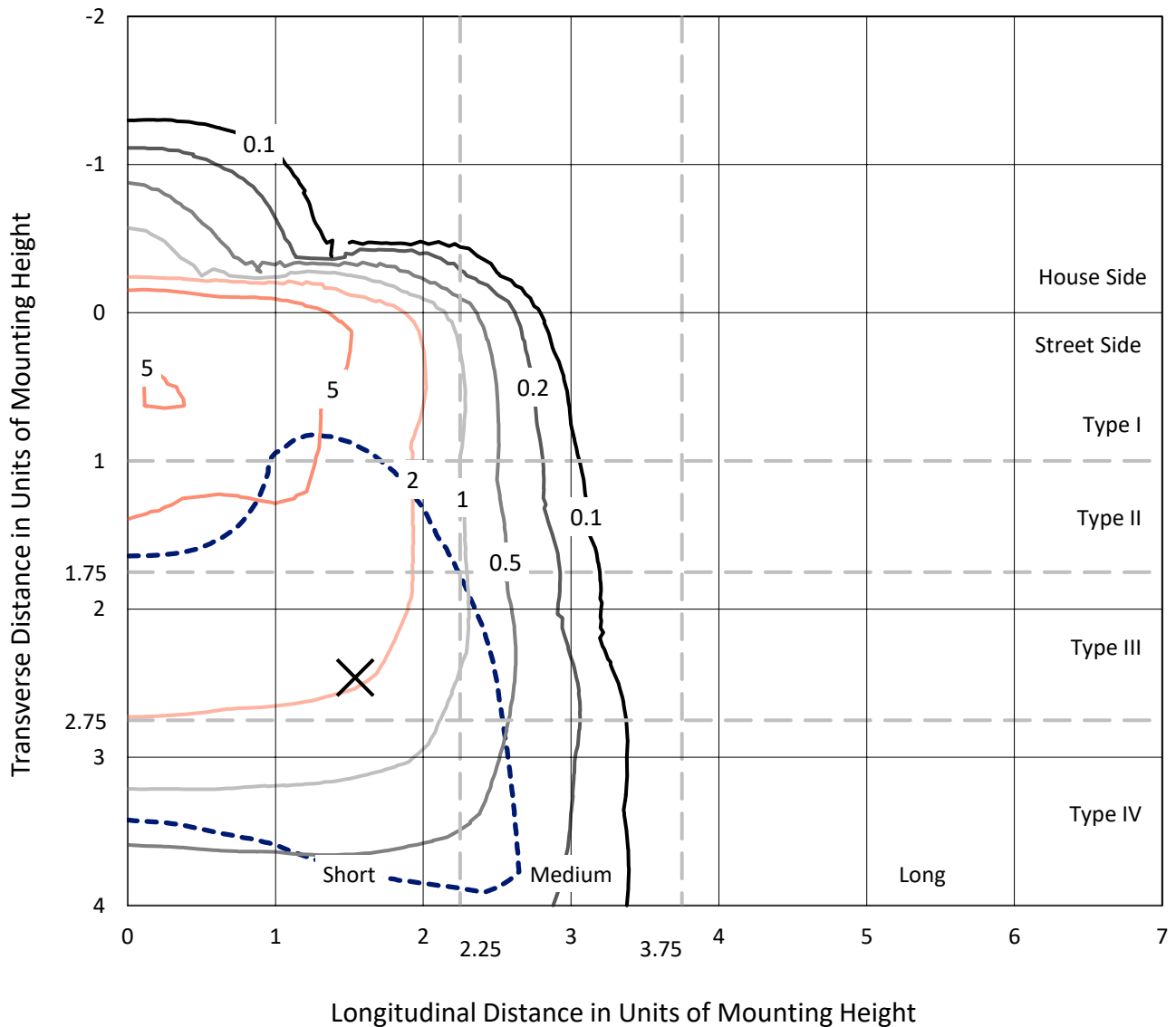
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

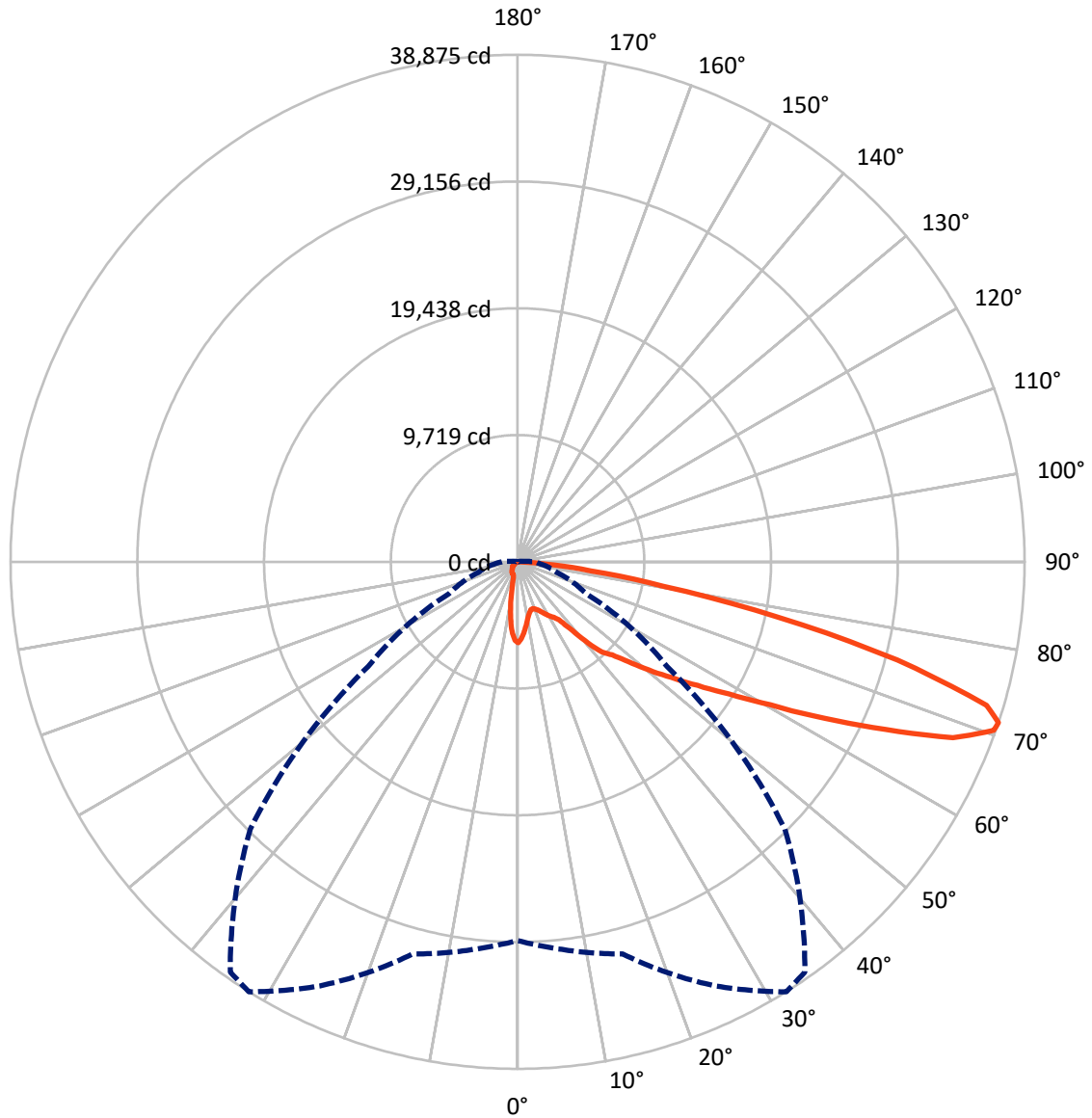
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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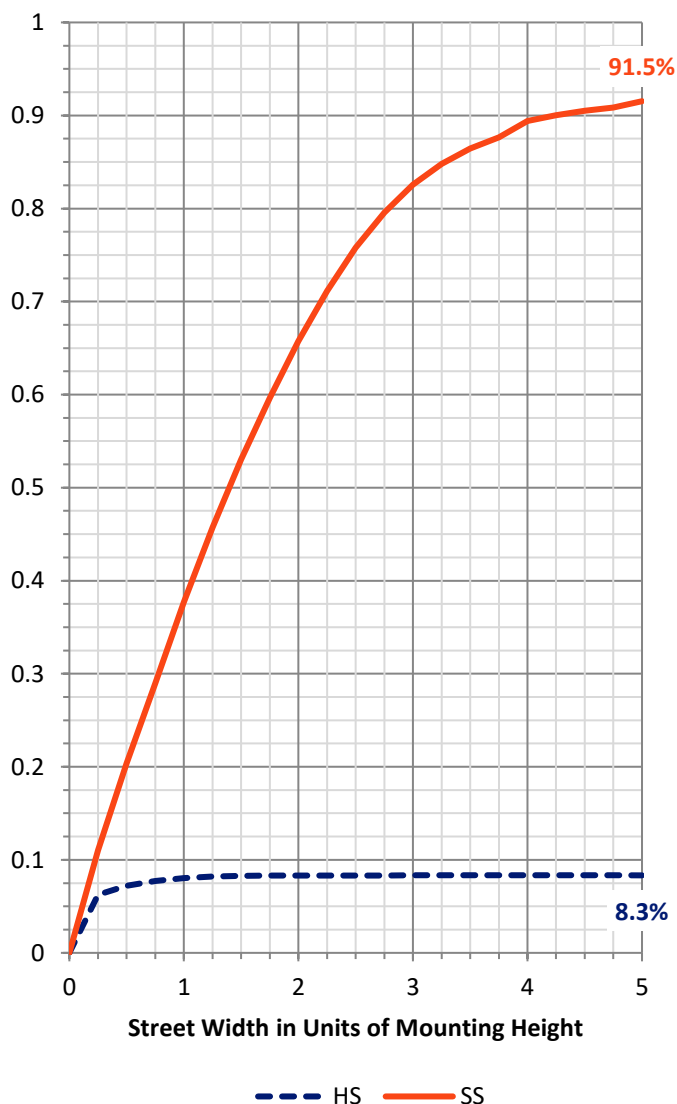
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3233.0	0.0	3233.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	35364.7	0.0	35364.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	38597.7	0.0	38597.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.7	1.3
10°-20°	1095.4	2.8
20°-30°	1704.1	4.4
30°-40°	2839.1	7.4
40°-50°	5281.1	13.7
50°-60°	8479.0	22.0
60°-70°	11404.7	29.5
70°-80°	6766.5	17.5
80°-90°	523.0	1.4
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°	38597.7	100.0
0°-180°	38597.7	100.0

Coefficient of Utilization



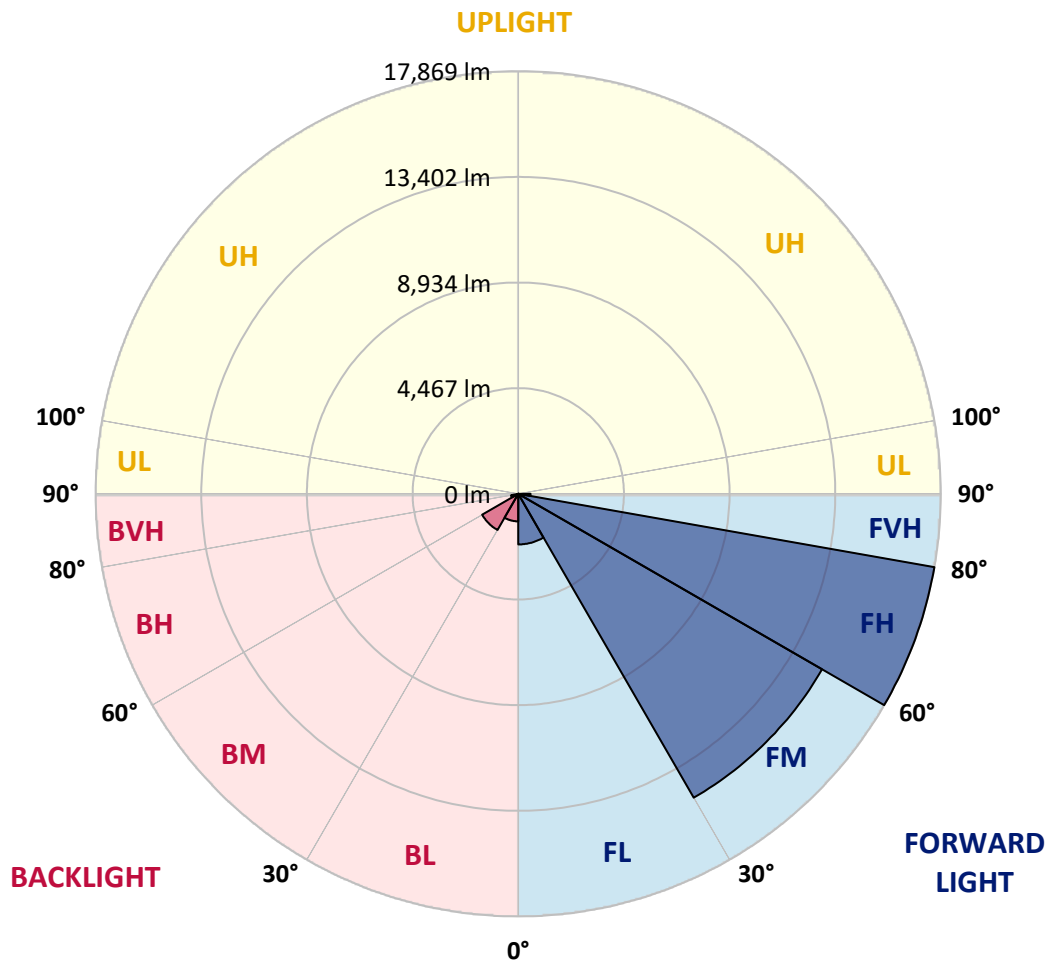
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2139.3	5.5			
FM (30°-60°)	14835.5	38.4			
FH (60°-80°)	17868.9	46.3			G5
FVH (80°-90°)	521.0	1.3			G4/750
BL (0°-30°)	1164.9	3.0	B3/2500		
BM (30°-60°)	1763.7	4.6	B2/2500		
BH (60°-80°)	302.4	0.8	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	6207.1	6207.1	6207.1	6207.1	6207.1	6207.1	6207.1	6207.1	6207.1	6207.1	6207.1
2.5°	5756.7	5816.0	5807.1	5827.9	5878.3	5898.9	5955.3	6017.5	6103.4	6162.7	6201.2
5°	5155.3	5199.7	5205.7	5309.4	5359.8	5416.0	5582.0	5762.7	5964.1	6124.2	6230.8
7.5°	4512.4	4536.1	4583.4	4719.8	4847.2	4903.5	5155.3	5469.4	5786.4	6085.6	6278.2
10°	3982.1	4008.7	4094.7	4239.8	4358.3	4432.4	4782.0	5176.0	5620.5	6064.9	6346.4
12.5°	3679.8	3694.6	3727.2	3857.6	4008.7	4088.7	4465.0	4915.3	5487.1	6073.8	6461.9
15°	3659.1	3653.1	3614.6	3667.9	3804.3	3887.2	4254.6	4737.5	5368.6	6103.4	6598.2
17.5°	3768.7	3753.9	3662.1	3662.1	3774.7	3842.8	4165.7	4642.7	5309.4	6171.6	6790.8
20°	3937.6	3913.9	3762.8	3750.9	3860.5	3931.7	4219.0	4648.6	5321.3	6298.9	7048.6
22.5°	4150.9	4124.3	3896.1	3902.1	4020.6	4091.6	4373.1	4755.4	5395.3	6456.0	7324.1
25°	4429.4	4399.8	4130.2	4118.3	4242.8	4305.0	4601.3	4944.9	5499.0	6651.6	7685.6
27.5°	4799.8	4737.5	4414.6	4396.8	4530.1	4610.1	4876.8	5199.7	5682.7	6921.2	8171.5
30°	5105.0	5036.8	4728.7	4681.3	4823.5	4885.7	5161.2	5543.5	6044.2	7392.2	8844.0
32.5°	5504.9	5404.2	5042.7	4918.3	5069.4	5149.4	5573.1	6183.4	6580.4	7890.0	9644.0
35°	6405.6	6343.4	5902.0	5466.4	5457.5	5558.3	6180.4	6829.3	7131.5	8666.3	10734.3
37.5°	7694.5	7650.0	7181.9	6598.2	6429.4	6381.9	6918.2	7540.4	8011.5	9732.9	12002.4
40°	9190.7	9087.0	8657.3	8162.6	7943.3	7804.1	7789.3	8598.1	9161.0	11181.7	13323.8
42.5°	10263.2	10073.6	9552.2	9516.6	9469.2	9324.0	8903.2	10144.7	10645.4	12740.1	14737.1
45°	11389.1	11101.7	10325.5	10192.1	10174.3	10165.4	10586.2	11975.8	12263.1	14429.0	16188.8
47.5°	12263.1	12035.0	11398.0	11338.7	11412.8	11614.3	12811.2	13919.3	13860.1	15934.1	17406.6
50°	13427.5	13255.7	12547.6	12660.2	13042.3	13371.2	15320.7	16037.8	15172.6	17119.2	18292.4
52.5°	14802.3	14485.2	13827.5	14132.7	14719.3	15267.4	17984.4	17892.4	16094.0	18011.0	18953.2
55°	15993.3	15768.2	15542.9	15860.0	16737.0	17421.4	20390.1	19282.0	16763.7	18728.0	19243.5
57.5°	18008.0	17954.7	17723.6	18046.5	19110.2	19821.3	22544.1	20360.5	17193.2	19101.3	18902.8
60°	20988.7	20902.7	20473.1	20885.0	22271.5	23388.5	24529.2	21329.4	17291.0	18956.1	17922.1
62.5°	24573.7	24280.3	23912.9	24520.3	26422.5	26914.3	26398.7	21904.2	16926.6	17800.6	15557.7
65°	27921.6	27619.4	27628.3	28908.3	30979.2	31314.0	28579.4	21818.2	15860.0	14906.0	11475.0
67.5°	30484.5	30434.1	30795.6	33293.3	36001.3	35770.2	30528.9	20532.3	12698.7	9661.7	6097.5
70°	30614.8	30712.6	31749.6	35965.7	38715.2	38347.8	30363.0	16689.6	7916.7	4444.3	2402.8
71°	29038.6	29696.4	31130.4	35882.8	38875.2	38398.2	28964.5	13978.6	5807.1	3099.1	1733.2
72.5°	24745.5	25092.2	28191.2	33770.3	37610.0	36590.8	25418.0	9798.1	3718.3	1896.2	995.5
75°	13629.0	14482.3	18879.1	26493.5	30081.6	29186.7	16565.2	4654.6	1854.7	1037.0	411.8
77.5°	6488.6	6322.6	9211.4	15756.3	20396.1	20348.7	8346.3	2068.0	1081.4	702.2	207.4
80°	1854.7	2085.8	3525.7	7490.0	11323.9	11448.4	3205.8	998.4	749.6	548.2	106.6
82.5°	559.9	571.8	1294.7	3312.4	5632.3	5309.4	1202.9	509.6	539.2	435.6	62.2
85°	97.8	121.4	382.2	1167.4	2148.1	1629.5	302.2	243.0	355.6	287.4	35.6
87.5°	5.9	8.9	127.4	133.3	189.6	109.7	53.3	35.6	77.0	77.0	20.8
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°	6207.1	6207.1	6207.1	6207.1	6207.1	6207.1	6207.1	6207.1	6207.1	6207.1	6207.1
2.5°	6227.9	6245.6	6233.7	6207.1	6162.7	6109.4	6038.2	5979.0	5928.6	5902.0	5934.5
5°	6266.4	6290.1	6230.8	6097.5	5896.0	5676.8	5427.9	5235.3	5084.2	5036.8	5019.0
7.5°	6325.7	6340.5	6180.4	5884.1	5457.5	4939.0	4485.7	4103.5	3807.2	3718.3	3588.0
10°	6402.6	6393.8	6091.5	5540.5	4790.9	4011.7	3309.5	2788.0	2394.0	2251.8	2239.9
12.5°	6521.2	6473.8	5979.0	5072.3	3996.9	2977.6	2109.6	1650.3	1401.4	1318.4	1300.7
15°	6669.3	6556.7	5801.2	4524.2	3060.6	1922.9	1300.7	1161.4	1128.9	1122.9	1117.0
17.5°	6844.1	6666.4	5567.2	3851.7	2151.0	1247.4	1087.3	1084.4	1087.3	1081.4	1078.5
20°	7081.1	6781.9	5288.6	3054.7	1422.1	1051.8	1037.0	1037.0	1040.0	1037.0	1037.0
22.5°	7333.0	6918.2	4944.9	2331.8	1072.5	998.4	995.5	1001.5	1007.3	1004.4	1004.4
25°	7644.1	7095.9	4491.6	1597.0	959.9	954.0	957.0	968.8	980.7	983.6	980.7
27.5°	8094.5	7315.2	4005.8	1099.2	879.9	885.9	915.5	945.1	962.9	965.9	965.9
30°	8601.1	7558.2	3371.7	891.8	814.8	814.8	850.3	906.6	945.1	951.1	954.0
32.5°	9252.9	7839.6	2669.5	802.9	752.5	746.6	779.2	847.4	918.5	939.2	939.2
35°	10058.8	8171.5	1985.1	746.6	708.1	693.3	711.1	767.4	859.2	918.5	924.4
37.5°	11003.9	8485.5	1451.8	696.3	666.7	645.9	657.7	702.2	776.2	865.1	888.9
40°	11877.9	8764.1	1084.4	654.8	625.1	610.3	619.2	640.0	702.2	785.2	800.0
42.5°	12832.0	8980.3	862.2	610.3	583.7	577.8	577.8	586.6	628.1	675.5	678.5
45°	13783.1	9057.3	722.9	557.0	539.2	545.1	542.2	536.3	554.1	548.2	548.2
47.5°	14461.5	8965.5	598.5	506.6	506.6	515.5	500.7	480.0	471.1	435.6	438.5
50°	14926.7	8630.7	491.8	447.4	471.1	482.9	453.3	420.8	388.1	349.6	340.7
52.5°	15119.2	8035.2	402.9	370.4	417.7	432.6	397.0	358.5	308.1	275.5	266.7
55°	14994.9	7300.4	334.8	302.2	352.5	370.4	334.8	290.4	234.1	198.5	192.6
57.5°	14446.7	6423.4	284.4	240.0	281.5	293.3	269.6	222.2	165.9	130.4	130.4
60°	13498.6	5516.8	231.1	189.6	210.3	228.2	204.4	160.0	112.6	80.0	74.1
62.5°	11575.8	4479.8	186.6	148.1	148.1	163.0	142.2	115.6	71.1	41.5	38.5
65°	8358.1	3072.4	148.1	109.7	106.6	106.6	88.9	77.0	41.5	17.7	11.9
67.5°	4542.0	1733.2	118.5	82.9	74.1	71.1	56.3	44.4	17.7	2.9	0.0
70°	1786.6	666.7	91.8	56.3	47.4	44.4	29.6	20.8	11.9	0.0	0.0
71°	1211.8	459.3	80.0	47.4	38.5	32.6	23.7	17.7	8.9	0.0	0.0
72.5°	693.3	284.4	62.2	35.6	29.6	23.7	17.7	11.9	8.9	0.0	0.0
75°	302.2	145.2	38.5	26.7	20.8	14.8	11.9	8.9	2.9	0.0	0.0
77.5°	154.1	80.0	26.7	20.8	11.9	8.9	5.9	2.9	0.0	0.0	0.0
80°	86.0	41.5	17.7	11.9	8.9	5.9	2.9	2.9	0.0	0.0	0.0
82.5°	47.4	23.7	8.9	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.6	14.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.8	5.9	0.0	0.0	0.0	0.0	2.9	2.9	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)