

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: STREETWORKS

Report Number: P654091

Luminaire Tested: **GLAN-SA9A-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P654091
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: STREETWORKS
Catalog Number: GLAN-SA9A-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA 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: 28535.2 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

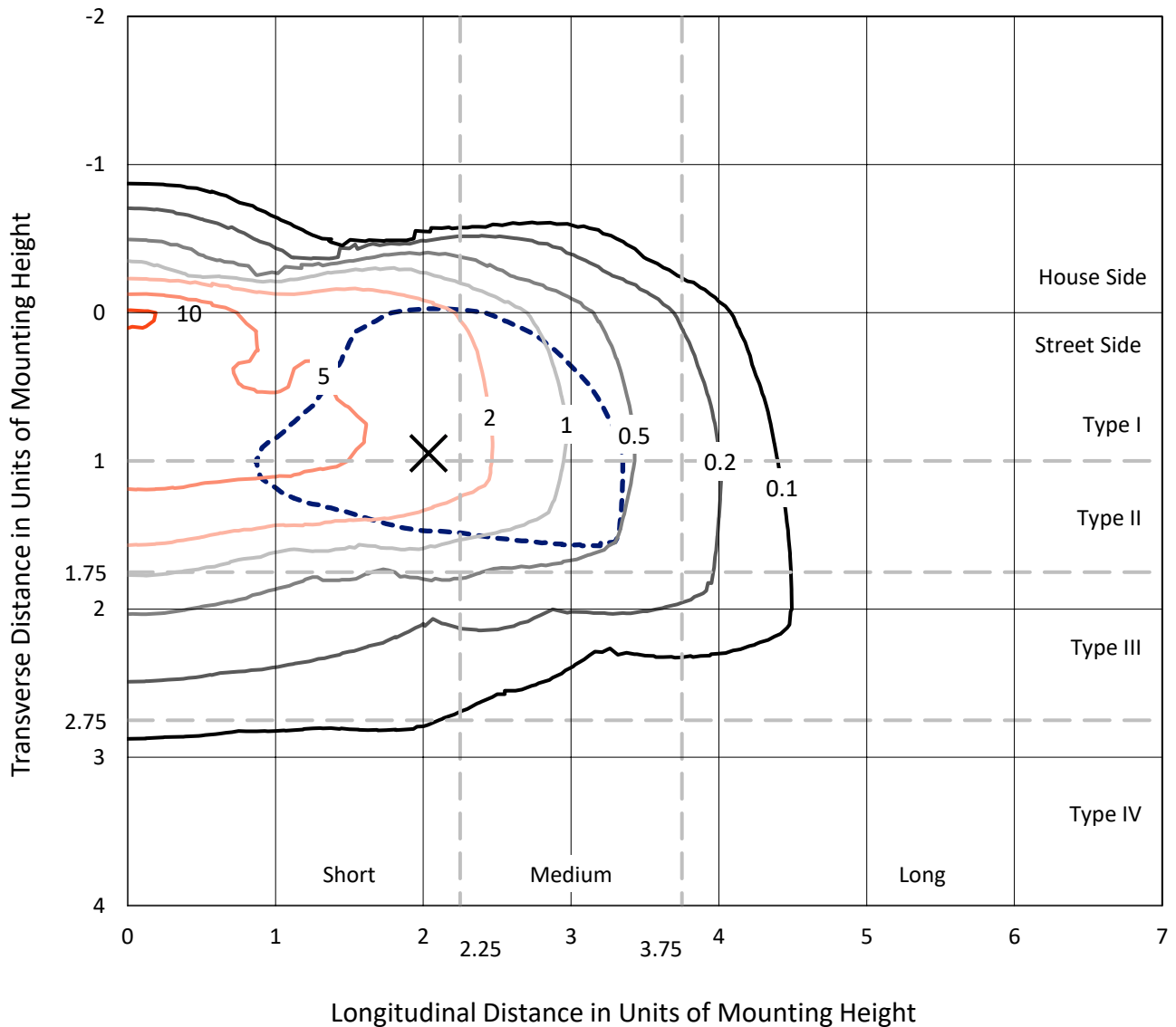
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

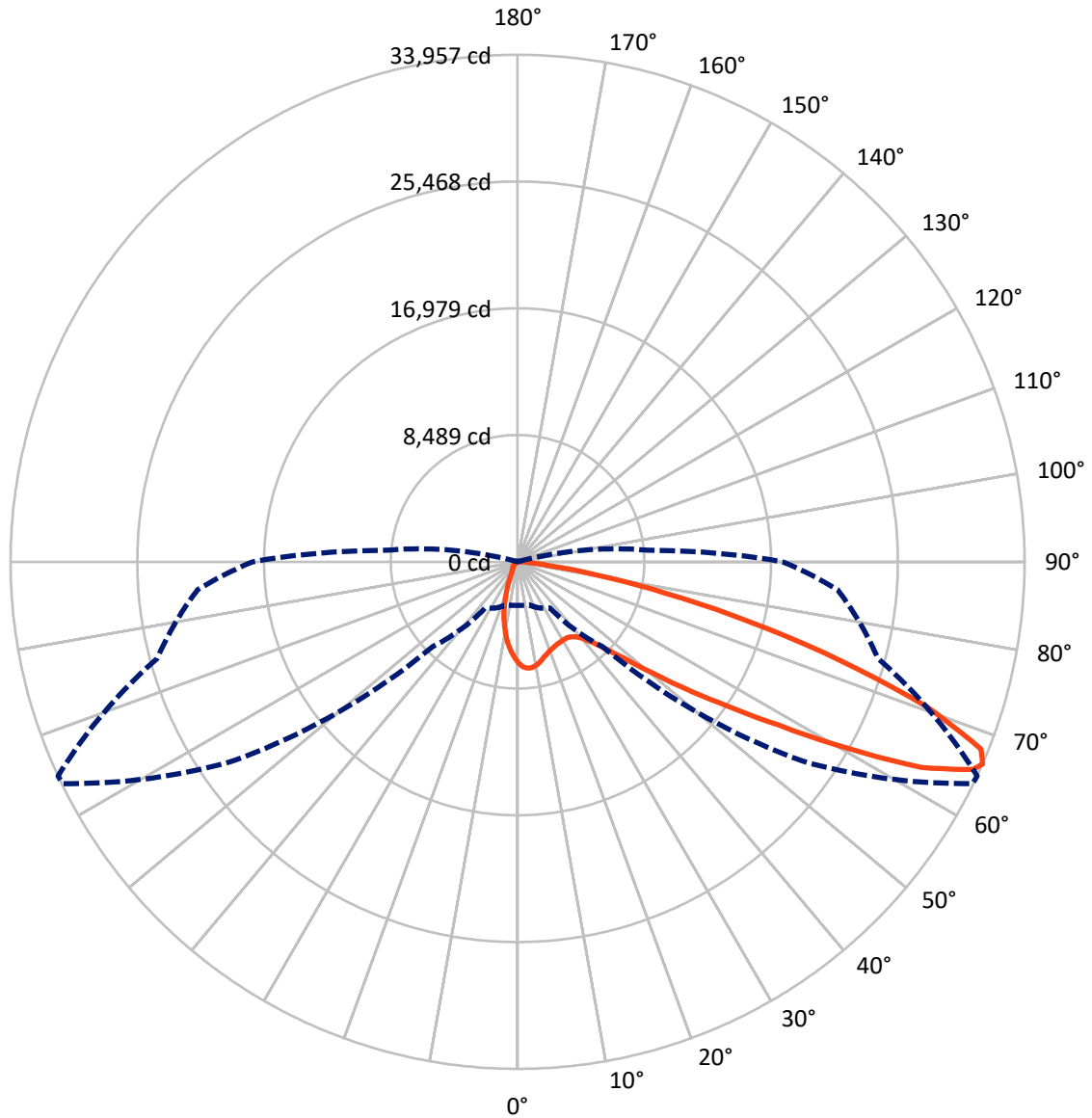
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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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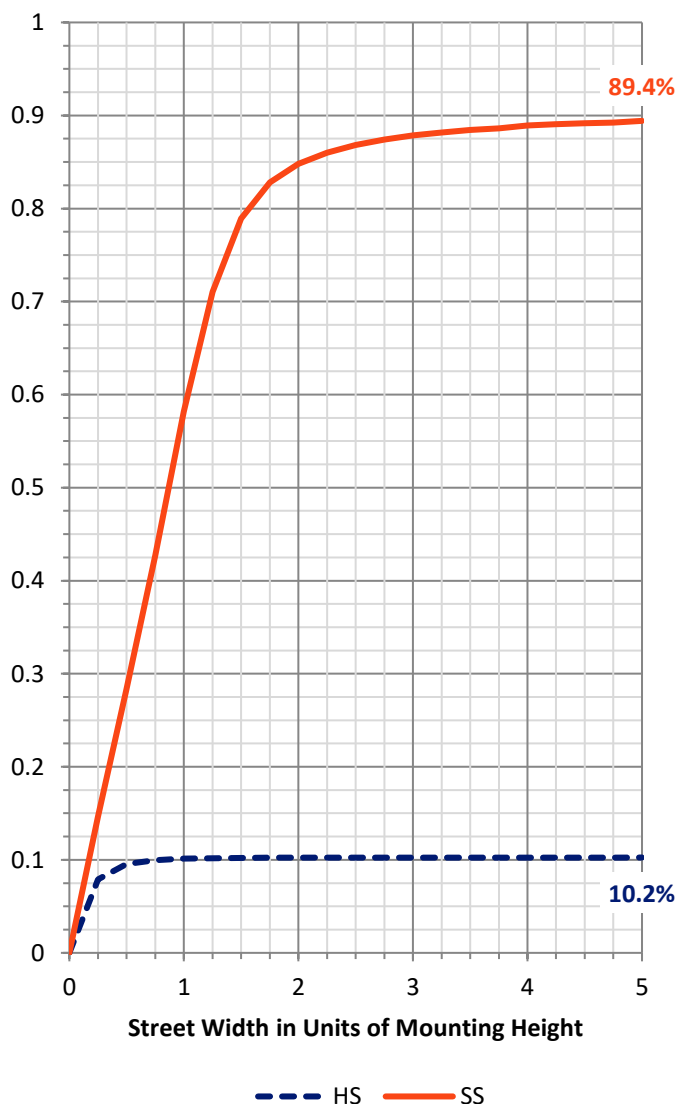
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2951.0	0.0	2951.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	25584.2	0.0	25584.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	28535.2	0.0	28535.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.4	1.9
10°-20°	1205.8	4.2
20°-30°	1727.3	6.1
30°-40°	2522.9	8.8
40°-50°	4230.5	14.8
50°-60°	7060.0	24.7
60°-70°	7493.9	26.3
70°-80°	3394.0	11.9
80°-90°	347.3	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°	28535.2	100.0
0°-180°	28535.2	100.0

Coefficient of Utilization

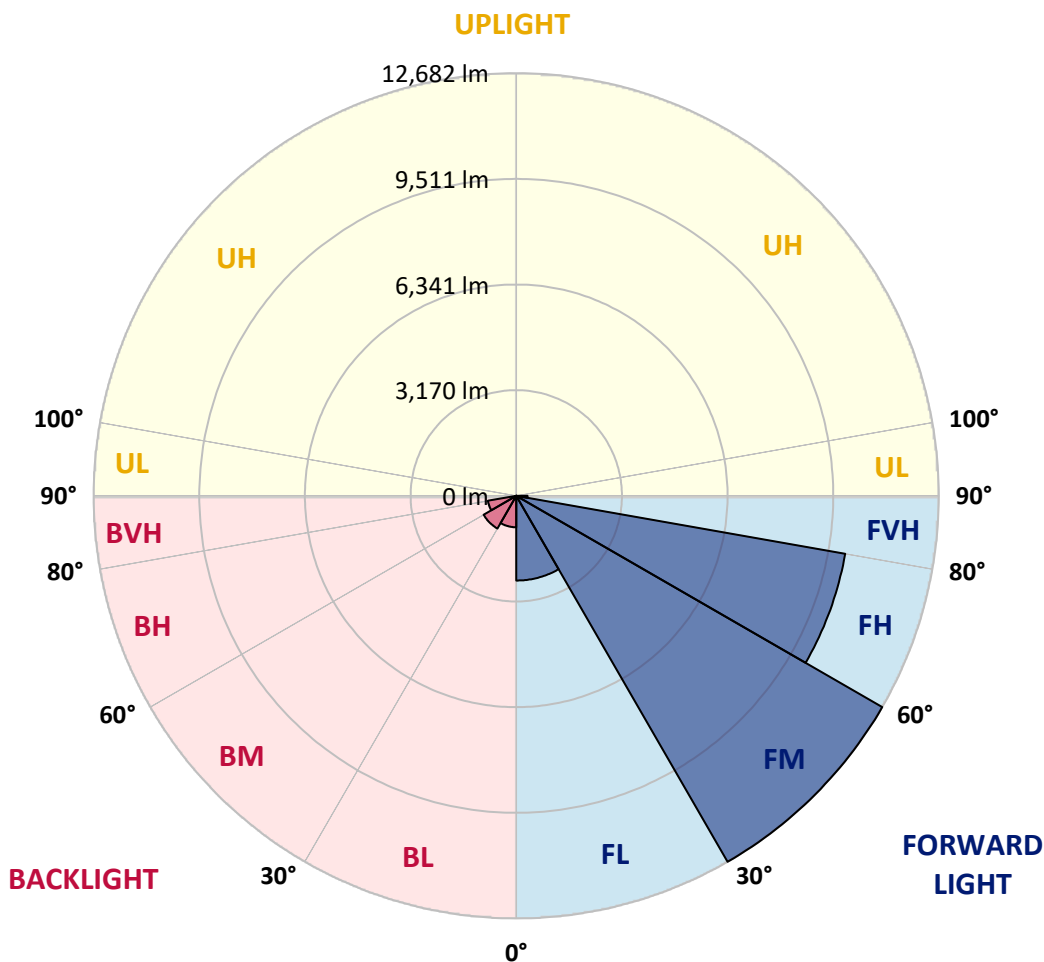


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2542.6	8.9			
FM (30°-60°)	12681.7	44.4			
FH (60°-80°)	10023.7	35.1			G4/12000
FVH (80°-90°)	336.2	1.2			G3/500
BL (0°-30°)	944.0	3.3	B2/1000		
BM (30°-60°)	1131.7	4.0	B2/2500		
BH (60°-80°)	864.2	3.0	B2/1000		G2/1000
BVH (80°-90°)	11.1	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°	6766.8	6766.8	6766.8	6766.8	6766.8	6766.8	6766.8	6766.8	6766.8	6766.8	6766.8
2.5°	7131.0	7138.7	7148.3	7161.8	7171.5	7142.5	7102.1	7055.8	7046.2	6947.9	6828.4
5°	6749.4	6761.0	6845.7	6892.0	6996.1	7090.6	7150.3	7158.0	7154.1	7061.6	6870.8
7.5°	6205.9	6238.6	6321.5	6402.4	6597.1	6776.4	6988.4	7136.8	7146.4	7121.3	6884.3
10°	5764.6	5785.7	5828.1	5988.1	6150.0	6423.6	6720.5	6999.9	7023.0	7123.3	6872.7
12.5°	5419.6	5450.4	5502.4	5625.8	5820.4	6078.7	6416.0	6791.7	6839.9	7086.7	6839.9
15°	5178.6	5194.1	5246.1	5367.5	5556.4	5795.4	6136.5	6574.0	6616.4	7038.5	6834.2
17.5°	5064.9	5082.2	5118.9	5215.3	5371.4	5593.0	5926.4	6398.6	6452.6	7007.6	6855.4
20°	5095.8	5111.2	5113.1	5163.2	5269.2	5456.2	5772.3	6234.8	6304.2	6988.4	6890.1
22.5°	5271.1	5273.1	5249.9	5226.8	5263.5	5398.4	5677.8	6130.7	6202.0	6984.5	6930.5
25°	5533.3	5539.1	5500.5	5419.6	5346.3	5415.7	5656.7	6063.3	6126.9	6974.9	6955.6
27.5°	5895.6	5893.6	5882.1	5747.2	5539.1	5492.8	5674.0	6026.7	6080.6	6947.9	6965.2
30°	6402.4	6387.1	6362.0	6209.8	5891.7	5679.8	5747.2	6003.6	6053.6	6909.3	6940.2
32.5°	6901.7	6959.4	6955.6	6811.1	6414.1	6013.2	5899.4	6034.3	6071.0	6884.3	6903.6
35°	7483.7	7481.8	7630.1	7576.2	7111.7	6439.1	6159.7	6136.5	6165.5	6901.7	6886.2
37.5°	8023.3	8073.4	8304.7	8360.6	7936.6	7040.4	6527.8	6356.2	6365.9	7019.2	6928.7
40°	8695.9	8792.3	9137.3	9324.3	8950.3	7932.7	7071.2	6759.0	6761.0	7308.3	7088.6
42.5°	9563.3	9715.5	10037.3	10349.6	10149.1	8988.9	7886.5	7396.9	7393.1	7817.1	7454.8
45°	10617.5	10723.5	11089.7	11584.9	11457.8	10463.3	9073.7	8385.7	8335.6	8651.6	8104.3
47.5°	11527.2	11671.7	12043.6	12608.4	13186.5	12263.4	10492.2	9744.4	9711.6	9979.6	9218.3
50°	11924.2	12051.4	12442.6	13234.7	14635.8	14626.3	12604.5	11727.6	11671.7	11816.2	10941.2
52.5°	11488.6	11608.1	12003.2	12990.0	15318.1	17505.6	15665.1	14215.8	14148.3	13963.3	12999.6
55°	9996.9	10095.2	10679.1	11812.3	15056.0	19425.2	19882.0	17289.8	17027.6	16308.8	15329.7
57.5°	7959.7	7909.6	8271.9	9588.3	13518.1	20069.0	24210.7	21119.3	20650.9	18336.3	17301.3
60°	5516.0	5670.1	5816.6	6683.8	10164.6	18953.0	26903.1	25933.7	25317.0	20331.0	19190.1
62.5°	4055.0	4157.1	4253.5	4654.4	6390.9	15133.1	27379.2	30879.1	30331.8	22449.1	20992.1
65°	3207.0	3214.7	3253.2	3648.3	4211.1	9840.8	25091.5	33667.9	33527.2	24488.2	21722.5
66°	2921.8	2923.7	2983.4	3407.5	3779.5	8013.7	23258.6	33879.9	33957.0	24977.7	21508.6
67.5°	2553.7	2546.0	2632.7	3062.5	3442.1	5778.0	19978.4	33020.4	33477.1	25353.5	20739.6
70°	1979.3	1969.7	2075.7	2569.1	3170.4	3854.6	13279.1	28352.5	29088.7	24584.5	18349.8
72.5°	1318.3	1326.0	1507.2	2027.5	3025.8	3393.9	7988.7	21568.4	22609.1	20302.2	14435.4
75°	769.0	782.5	988.7	1507.2	2626.9	3235.9	4521.5	15379.8	16044.8	14019.1	8992.7
77.5°	402.8	408.6	553.1	994.5	2014.0	3004.6	3012.4	9825.3	10137.6	6813.0	3559.7
80°	214.0	208.1	296.8	599.4	1385.7	2638.5	2443.8	5201.8	5408.0	2023.7	900.0
82.5°	81.0	88.6	158.0	393.2	819.1	1894.5	2104.6	2299.3	2228.0	445.2	377.8
85°	15.4	19.3	67.4	233.2	412.4	792.1	1551.5	1127.4	1044.6	167.7	217.8
87.5°	1.9	3.9	19.3	55.9	59.7	267.9	458.7	312.3	269.8	61.6	90.6
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°	6766.8	6766.8	6766.8	6766.8	6766.8	6766.8	6766.8	6766.8	6766.8	6766.8	6766.8
2.5°	6770.6	6718.6	6545.1	6373.6	6198.2	6040.1	5932.2	5756.8	5712.5	5648.9	5612.2
5°	6757.1	6635.7	6302.3	5938.0	5598.8	5232.6	4953.2	4683.4	4538.8	4465.5	4438.5
7.5°	6718.6	6525.8	6005.4	5435.0	4891.5	4344.1	3868.1	3505.7	3272.6	3112.5	3004.6
10°	6641.5	6375.5	5660.4	4876.0	4055.0	3332.3	2729.0	2270.4	1915.7	1803.9	1807.8
12.5°	6562.4	6207.8	5275.0	4255.5	3237.8	2326.2	1686.4	1324.1	1154.4	1098.6	1087.0
15°	6489.2	6047.9	4897.2	3654.1	2411.1	1507.2	1087.0	959.8	913.6	903.9	902.0
17.5°	6450.6	5899.4	4494.5	2966.1	1682.5	1023.4	871.1	836.5	822.9	813.3	809.5
20°	6417.9	5770.4	4109.0	2322.4	1150.6	838.4	780.5	747.8	724.7	715.0	709.2
22.5°	6394.8	5637.3	3710.1	1798.1	880.8	743.9	691.9	649.5	616.7	605.2	597.4
25°	6360.1	5490.9	3307.2	1314.4	742.0	661.0	601.3	551.2	508.8	487.6	483.7
27.5°	6309.9	5325.1	2865.9	973.3	663.0	587.9	514.6	452.9	410.5	387.4	389.3
30°	6229.0	5151.6	2424.5	772.9	599.4	512.7	433.6	373.9	333.5	316.0	314.1
32.5°	6132.7	4941.5	2019.8	663.0	541.6	445.2	362.3	310.3	279.5	266.0	264.1
35°	6042.1	4729.6	1607.4	595.5	481.8	383.5	304.5	260.2	237.1	225.5	227.4
37.5°	5992.0	4540.7	1252.8	541.6	433.6	329.6	262.1	223.5	202.3	192.8	190.8
40°	6024.8	4386.5	996.4	493.4	379.7	283.3	225.5	192.8	171.6	158.0	158.0
42.5°	6178.9	4319.0	803.7	447.2	329.6	244.7	196.6	165.8	142.6	129.1	131.0
45°	6649.2	4390.4	672.6	404.8	283.3	212.0	169.6	136.8	115.6	106.0	104.1
47.5°	7429.7	4658.3	582.1	360.4	242.9	181.2	142.6	113.7	92.5	84.8	82.8
50°	8794.3	5211.4	514.6	316.0	206.2	154.2	117.6	90.6	73.3	65.5	65.5
52.5°	10671.4	6417.9	466.4	266.0	173.5	131.0	96.4	73.3	57.9	52.1	50.1
55°	12633.4	7689.9	441.4	223.5	144.6	107.9	77.1	57.9	44.3	38.5	36.6
57.5°	14520.2	8688.2	412.4	181.2	115.6	82.8	59.7	44.3	30.9	27.0	25.1
60°	16329.9	9495.8	350.8	144.6	90.6	59.7	44.3	30.9	21.2	17.3	17.3
62.5°	17948.9	9966.0	275.6	115.6	69.4	42.4	28.9	23.1	15.4	11.6	11.6
65°	18137.8	9355.1	208.1	88.6	50.1	27.0	17.3	17.3	11.6	7.7	7.7
66°	17758.1	8836.6	183.1	81.0	44.3	23.1	15.4	13.5	9.7	5.8	5.8
67.5°	16910.1	7952.0	158.0	69.4	36.6	17.3	11.6	11.6	7.7	3.9	3.9
70°	14610.9	6495.0	125.3	52.1	27.0	13.5	7.7	7.7	5.8	3.9	3.9
72.5°	11135.9	4849.0	102.2	38.5	19.3	9.7	5.8	5.8	5.8	3.9	3.9
75°	6716.6	2611.5	79.1	28.9	17.3	7.7	3.9	5.8	7.7	5.8	3.9
77.5°	2474.6	888.5	61.6	23.1	13.5	7.7	3.9	3.9	7.7	5.8	5.8
80°	607.1	231.3	44.3	19.3	13.5	7.7	3.9	3.9	7.7	7.7	7.7
82.5°	281.4	98.3	30.9	17.3	13.5	7.7	3.9	3.9	5.8	7.7	7.7
85°	161.9	46.3	25.1	19.3	13.5	7.7	3.9	3.9	5.8	7.7	7.7
87.5°	65.5	23.1	23.1	19.3	15.4	9.7	3.9	3.9	3.9	5.8	5.8
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)