

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: P653136

Luminaire Tested: **GLAN-SA9C-840-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P653136  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9C-840-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38775.1 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G5

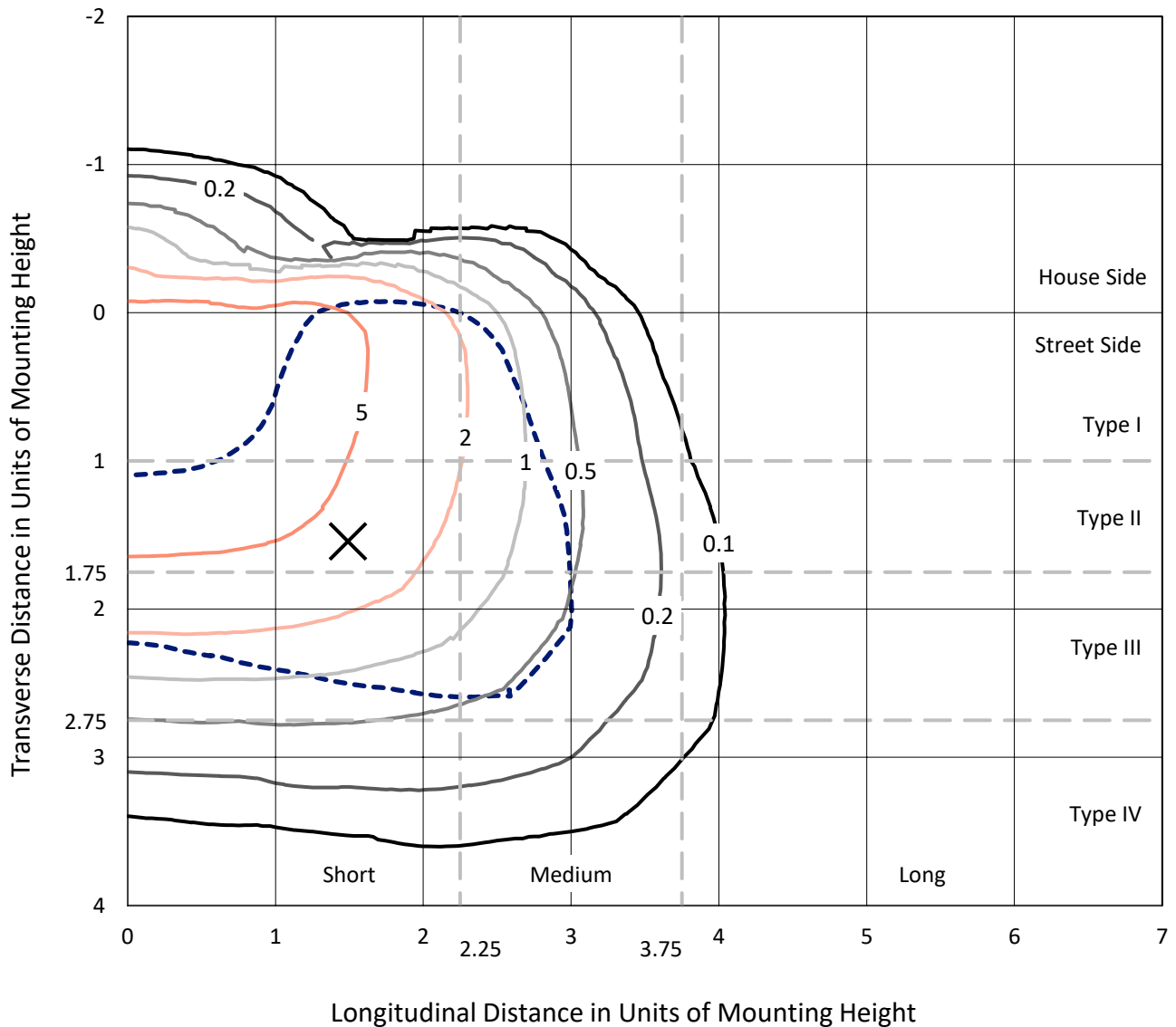
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

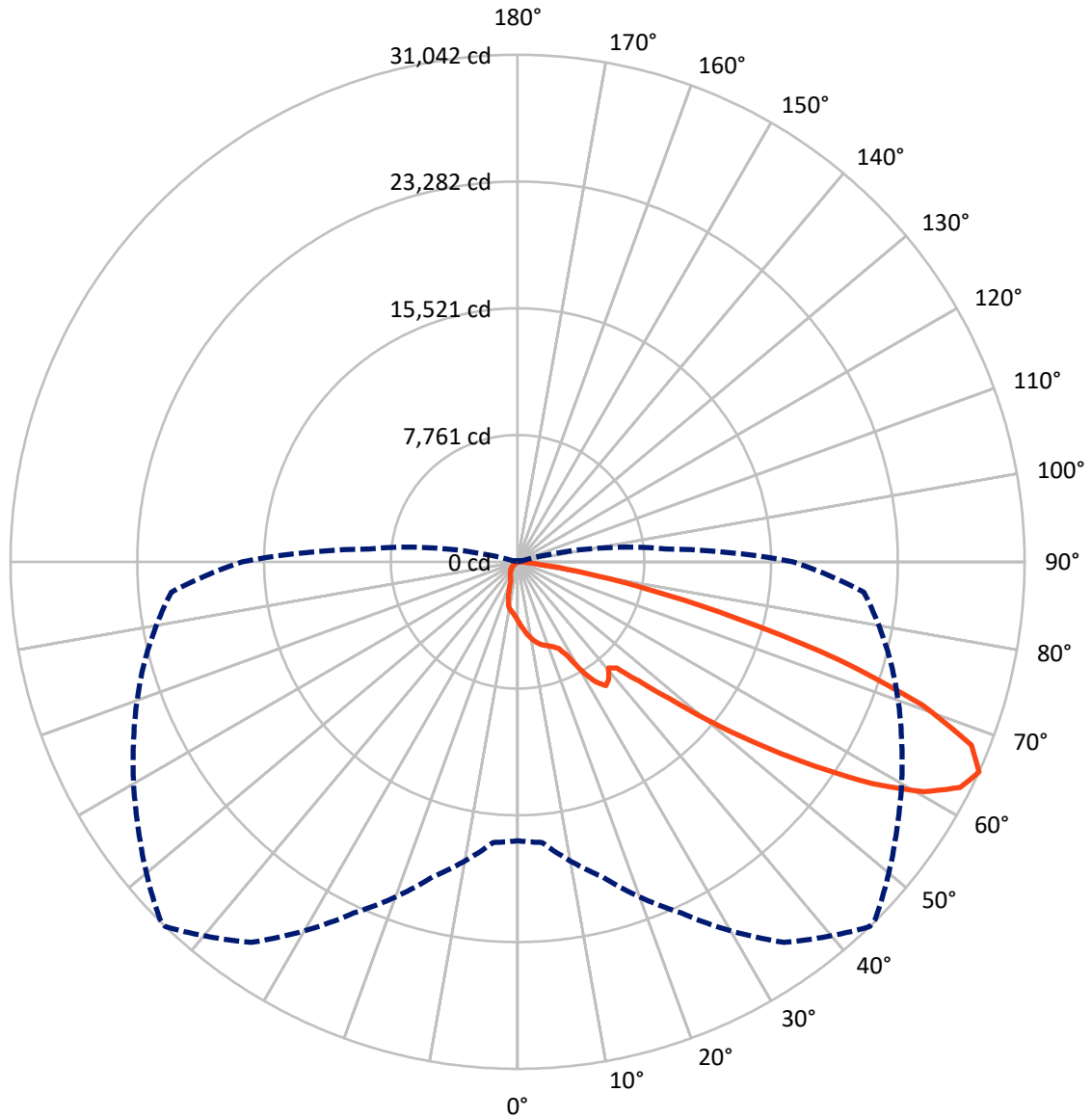
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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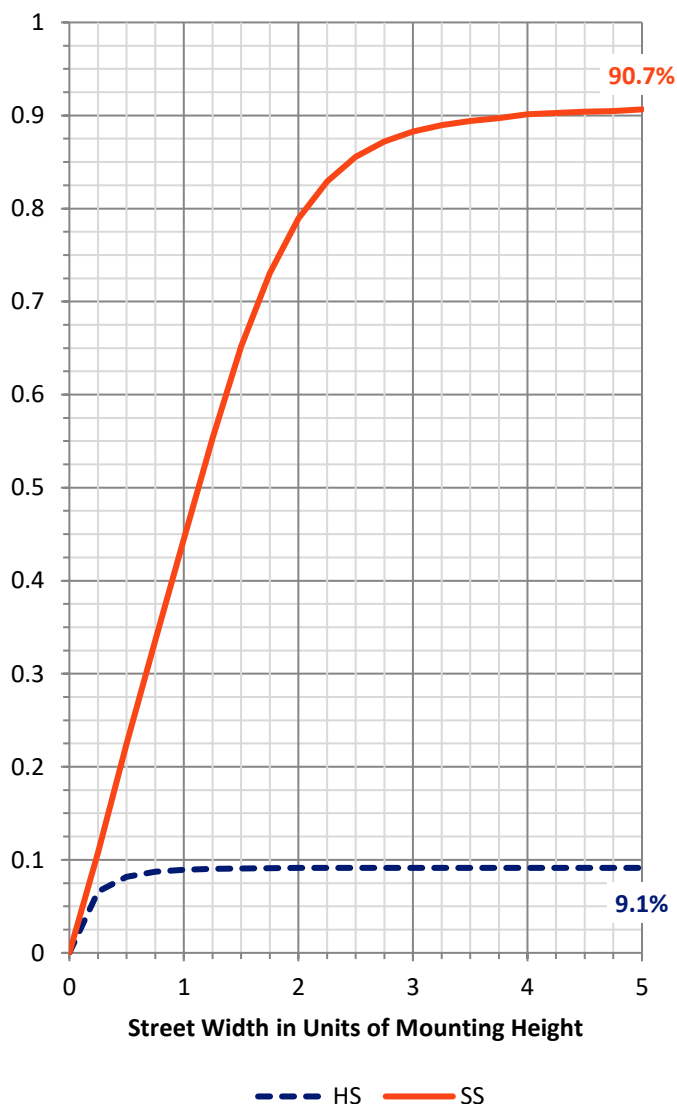
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3572.5	0.0	3572.5
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	35202.6	0.0	35202.6
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	38775.1	0.0	38775.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	358.9	0.9
10°-20°	1080.3	2.8
20°-30°	1831.8	4.7
30°-40°	3045.6	7.9
40°-50°	5317.7	13.7
50°-60°	10388.9	26.8
60°-70°	12053.5	31.1
70°-80°	4389.3	11.3
80°-90°	309.3	0.8
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°	38775.1	100.0
0°-180°	38775.1	100.0

**Coefficient of Utilization**



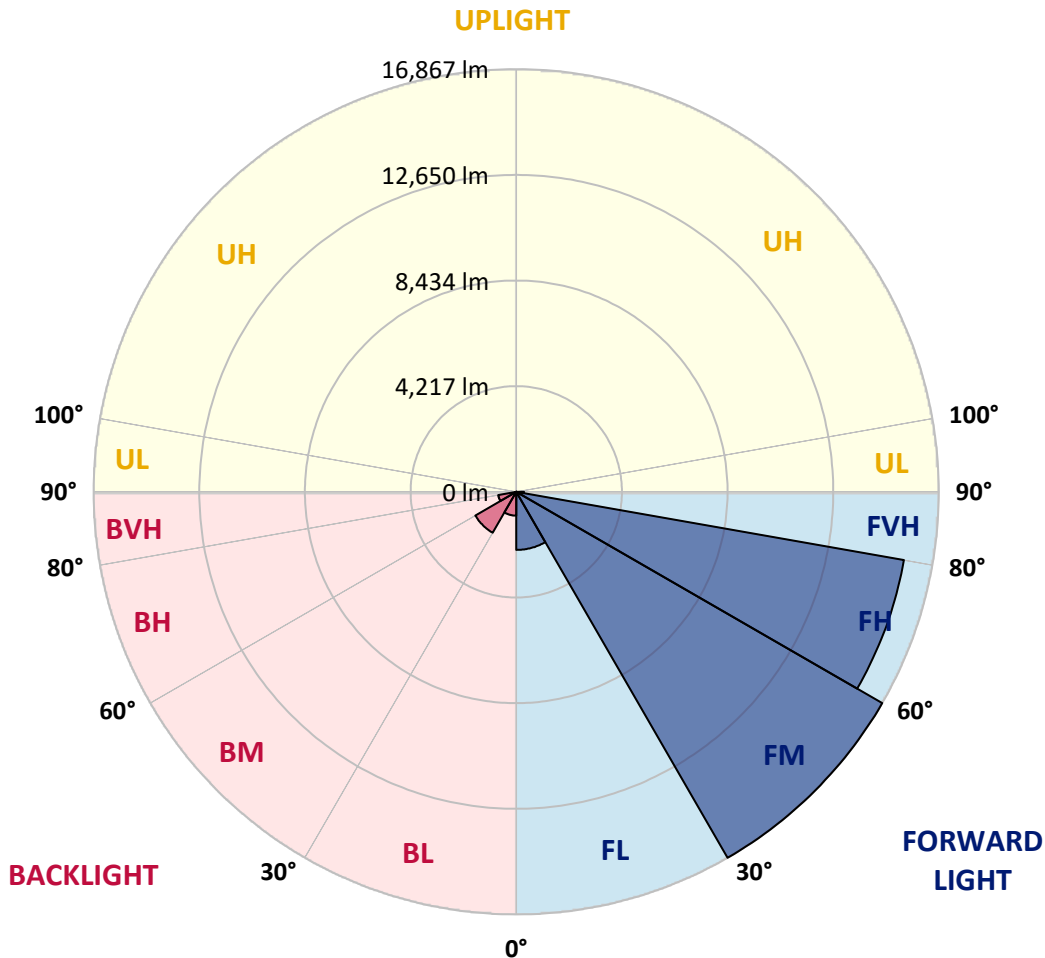
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2319.1	6.0			
FM (30°-60°)	16867.3	43.5			
FH (60°-80°)	15711.2	40.5			G5
FVH (80°-90°)	305.1	0.8			G3/500
BL (0°-30°)	951.8	2.5	B2/1000		
BM (30°-60°)	1884.9	4.9	B2/2500		
BH (60°-80°)	731.6	1.9	B2/1000		G2/1000
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-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3608.8	3608.8	3608.8	3608.8	3608.8	3608.8	3608.8	3608.8	3608.8	3608.8	3608.8
2.5°	4062.1	4044.4	4035.5	3988.0	3952.5	3908.0	3908.0	3851.8	3786.6	3715.5	3650.3
5°	4515.5	4485.8	4447.3	4405.8	4322.9	4204.3	4204.3	4085.8	3949.5	3828.1	3694.8
7.5°	4951.0	4924.3	4859.1	4779.2	4642.8	4518.4	4509.5	4337.7	4174.7	3991.0	3801.4
10°	5333.2	5312.5	5256.2	5102.1	4959.9	4796.9	4794.0	4601.4	4411.7	4186.6	3952.5
12.5°	5599.9	5602.8	5528.7	5380.6	5197.0	5042.9	5031.0	4841.4	4642.8	4399.9	4112.5
15°	5789.5	5789.5	5712.5	5546.6	5380.6	5244.3	5232.4	5066.5	4862.2	4598.4	4287.3
17.5°	5842.8	5860.6	5777.7	5629.5	5496.2	5377.7	5374.7	5235.5	5072.5	4817.7	4465.1
20°	5822.1	5839.9	5774.7	5659.2	5567.3	5499.1	5490.2	5434.0	5282.8	5042.9	4654.7
22.5°	5777.7	5795.4	5748.0	5679.9	5635.5	5656.1	5641.3	5688.8	5608.8	5318.4	4879.9
25°	5786.5	5804.3	5768.8	5730.2	5768.8	5896.2	5934.7	6139.1	6068.0	5668.0	5122.9
27.5°	6065.0	6100.6	6050.2	6068.0	6204.3	6500.6	6574.7	6927.2	6613.2	6112.5	5502.1
30°	6684.3	6660.6	6565.8	6651.7	7125.8	7753.9	7733.2	7676.9	7185.0	6625.1	5952.4
32.5°	7247.2	7226.5	7220.6	7591.0	8450.2	8755.4	8740.5	8195.4	7697.6	7211.7	6396.9
35°	7475.4	7395.4	7377.6	8275.4	9712.4	9309.4	9217.6	8408.7	8319.8	7851.7	6850.2
37.5°	8162.7	8106.5	7831.0	8388.0	9208.7	9075.3	9004.3	8776.1	8983.5	8417.6	7362.8
40°	9579.1	9422.0	9173.1	8628.0	8494.6	8551.0	8622.0	9247.2	9768.6	9190.9	8047.2
42.5°	11339.0	11303.5	10841.2	9825.0	8826.5	8903.5	8995.3	10230.8	10897.5	10355.3	9164.2
45°	13451.5	13501.9	12835.3	11635.3	10325.7	10390.9	10524.2	11682.7	12426.4	12165.7	10921.2
47.5°	15371.5	15333.0	15107.8	13860.4	12651.6	12506.4	12722.6	13546.4	14541.9	14583.4	13101.9
50°	17303.3	17507.8	17173.0	16684.1	15786.3	15481.1	15401.1	15804.1	17321.1	17122.6	15721.1
52.5°	20079.5	20186.2	19558.1	19433.7	19638.1	18648.5	18568.5	18666.2	20023.3	19341.8	17682.6
55°	21824.7	21762.5	21528.4	22500.3	23309.2	22073.6	21972.9	21578.8	22266.1	20909.2	19569.9
57.5°	22375.8	22464.7	23009.8	24766.9	26680.9	25632.0	25448.3	24328.4	23883.9	22369.8	21306.2
60°	22129.9	22292.8	23469.1	26082.4	28737.1	28580.1	28423.1	26541.6	25045.4	23590.6	22523.9
62.5°	20378.8	20606.9	22488.4	25848.3	29433.4	30414.2	30218.6	27922.4	25818.7	24183.2	22737.3
65°	17078.1	17247.1	19949.2	23723.9	28443.8	31042.3	30971.2	28354.9	25940.1	23640.9	21276.5
67.5°	12174.6	12749.4	15253.0	19993.6	25516.4	29969.7	30091.2	27836.4	24799.5	21297.3	17620.4
70°	7653.2	8044.2	9839.8	14313.7	20455.8	26292.8	26692.8	25463.1	21522.5	16601.1	11795.3
72.5°	3650.3	3940.7	5220.6	9060.5	14438.2	20686.9	21004.0	20903.2	16642.6	10459.0	6085.8
75°	1626.7	1736.2	2491.8	4625.1	9321.3	13904.8	14725.6	14861.9	10399.8	5116.9	2367.3
77.5°	829.6	832.6	1167.4	2239.9	4654.7	8296.1	8459.1	8936.1	5638.4	2254.8	823.7
80°	441.4	471.1	619.2	1057.7	2414.8	4085.8	4065.1	4468.1	2500.7	1105.2	275.5
82.5°	198.5	219.2	349.6	554.1	1179.3	1549.6	1671.1	1828.1	1072.5	705.2	121.4
85°	59.3	71.1	171.8	278.5	426.6	447.4	500.7	645.9	607.4	500.7	62.2
87.5°	8.9	8.9	71.1	77.0	62.2	80.0	82.9	91.8	195.5	183.7	32.6
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°	3608.8	3608.8	3608.8	3608.8	3608.8	3608.8	3608.8	3608.8	3608.8	3608.8	3608.8
2.5°	3614.7	3594.0	3519.9	3457.7	3404.4	3371.7	3333.2	3309.6	3297.7	3288.8	3291.8
5°	3629.6	3579.2	3451.8	3351.0	3274.0	3191.0	3134.7	3102.1	3087.3	3063.6	3063.6
7.5°	3712.5	3632.5	3454.7	3300.7	3167.4	3054.8	2948.1	2909.6	2882.9	2877.0	2871.1
10°	3831.0	3730.3	3487.3	3274.0	3084.4	2930.3	2779.2	2645.9	2542.2	2479.9	2471.0
12.5°	3979.2	3834.0	3537.7	3256.2	3013.3	2740.7	2340.7	2071.0	1890.3	1834.1	1842.9
15°	4115.4	3958.4	3588.0	3241.4	2882.9	2272.6	1819.3	1511.1	1419.2	1410.4	1413.3
17.5°	4278.4	4091.8	3647.3	3220.7	2524.4	1736.2	1351.1	1268.1	1285.9	1315.5	1312.5
20°	4447.3	4234.0	3718.4	3096.2	2014.8	1306.7	1194.1	1203.0	1229.6	1256.3	1262.2
22.5°	4628.0	4396.9	3801.4	2797.0	1537.8	1137.8	1131.8	1143.7	1170.3	1199.9	1205.9
25°	4877.0	4601.4	3863.6	2405.8	1164.4	1051.8	1063.7	1084.4	1108.1	1140.7	1146.6
27.5°	5197.0	4877.0	3896.2	1896.3	1007.3	974.8	977.7	1007.3	1037.0	1066.6	1066.6
30°	5611.7	5205.8	3831.0	1434.1	930.3	900.7	888.9	906.7	945.2	974.8	977.7
32.5°	5982.1	5516.9	3659.2	1096.2	874.1	832.6	803.0	805.9	820.7	838.5	841.5
35°	6352.5	5819.1	3365.9	921.5	814.8	767.4	722.9	699.2	687.4	678.5	687.4
37.5°	6826.5	6195.4	2974.8	838.5	764.5	705.2	642.9	592.6	551.1	524.4	530.3
40°	7436.9	6716.9	2512.6	785.2	717.0	645.9	563.0	497.8	426.6	402.9	391.1
42.5°	8444.2	7507.9	2026.6	740.8	669.6	583.7	480.0	391.1	325.9	302.3	308.1
45°	10035.3	8506.5	1561.5	693.3	622.2	515.5	402.9	308.1	254.8	243.0	248.9
47.5°	12144.9	9798.3	1203.0	640.0	563.0	441.4	317.1	243.0	210.3	207.4	204.4
50°	14130.1	11001.2	1004.4	580.7	491.8	367.4	260.7	204.4	183.7	180.7	180.7
52.5°	15925.6	11863.5	817.8	512.6	414.8	302.3	219.2	180.7	163.0	154.1	154.1
55°	17522.6	12426.4	663.7	429.6	325.9	240.0	189.6	163.0	142.2	130.4	127.4
57.5°	18728.5	12494.6	497.8	343.7	243.0	186.7	163.0	142.2	118.5	103.7	97.8
60°	19244.0	11904.9	367.4	260.7	180.7	148.2	130.4	115.6	88.9	74.1	71.1
62.5°	18725.5	10758.3	272.6	198.5	139.3	109.7	91.8	86.0	62.2	44.4	41.5
65°	16867.8	9102.1	216.3	151.1	103.7	80.0	59.3	56.3	38.5	20.8	17.7
67.5°	13513.8	7128.7	171.8	112.6	74.1	53.3	38.5	35.6	20.8	5.9	5.9
70°	8787.9	4557.0	139.3	82.9	47.4	35.6	23.7	17.7	11.9	2.9	0.0
72.5°	4346.5	2130.3	112.6	65.2	32.6	17.7	8.9	5.9	8.9	0.0	0.0
75°	1685.9	758.5	82.9	44.4	17.7	8.9	5.9	0.0	2.9	0.0	0.0
77.5°	560.0	251.9	50.4	23.7	11.9	5.9	0.0	0.0	0.0	0.0	0.0
80°	207.4	97.8	26.7	14.8	5.9	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	82.9	38.5	17.7	11.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	41.5	23.7	11.9	8.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	29.6	17.7	11.9	8.9	5.9	2.9	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)