

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: P649164

Luminaire Tested: **GLAN-SA9C-835-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9C-835-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50859 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

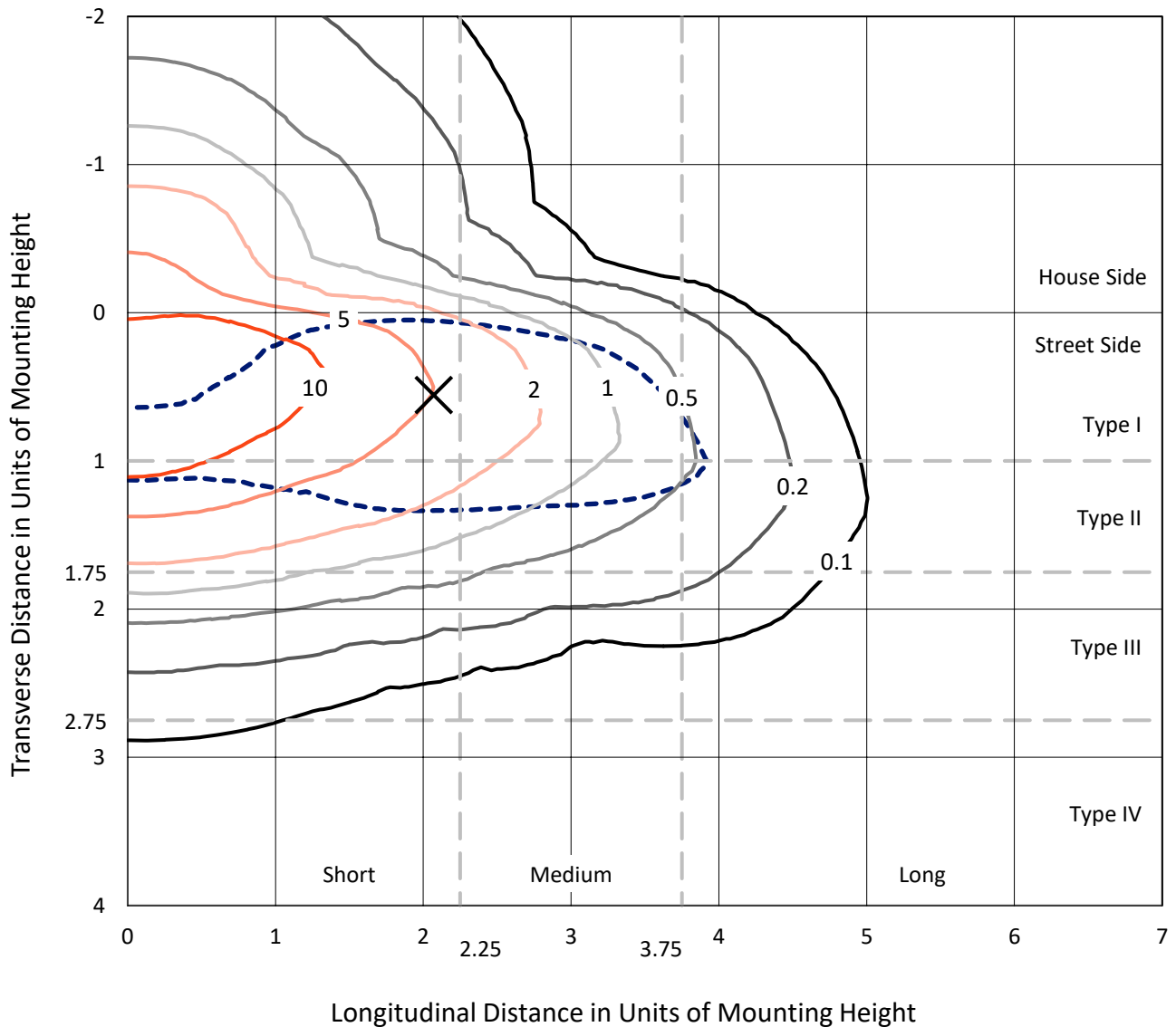
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

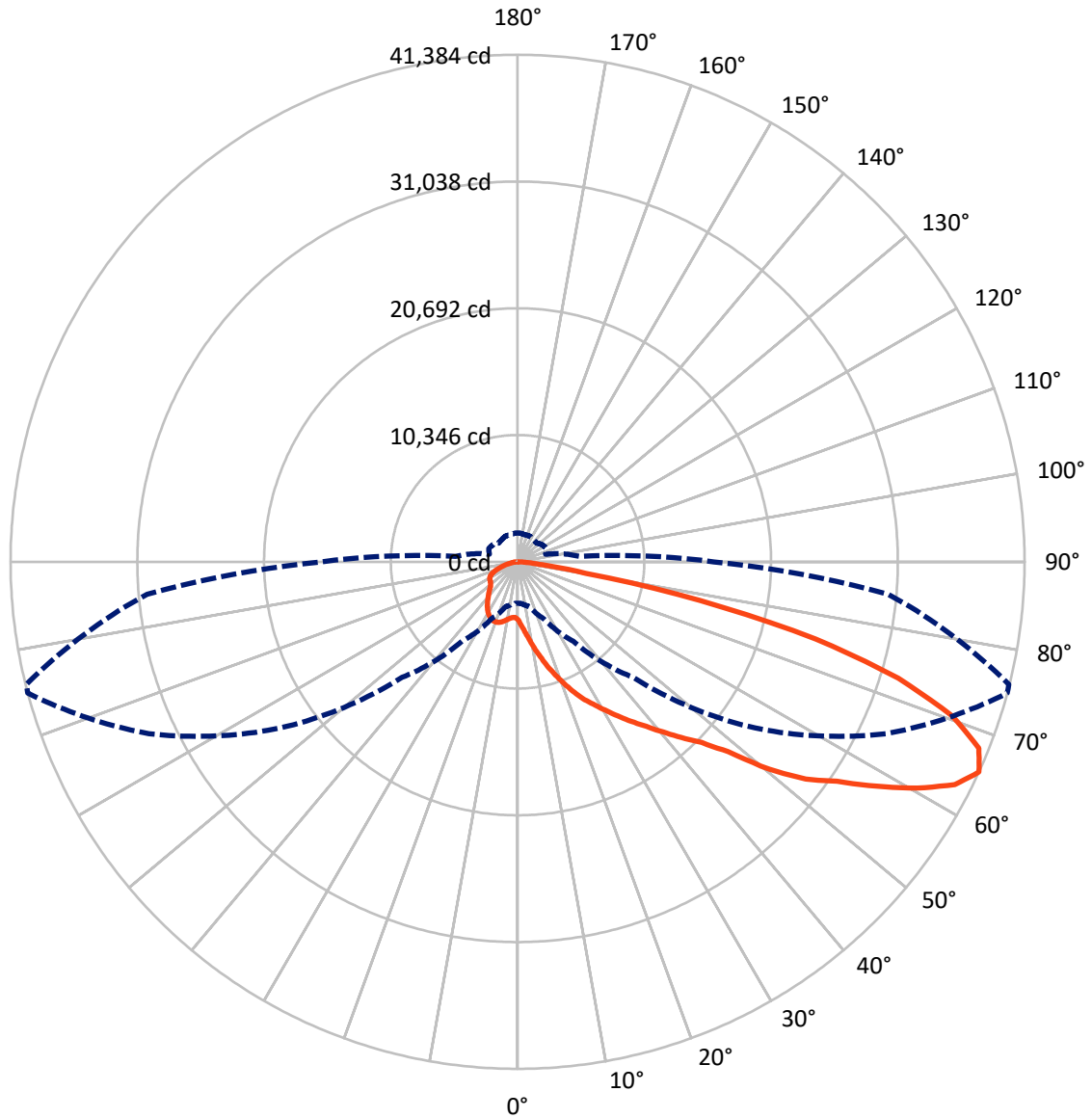
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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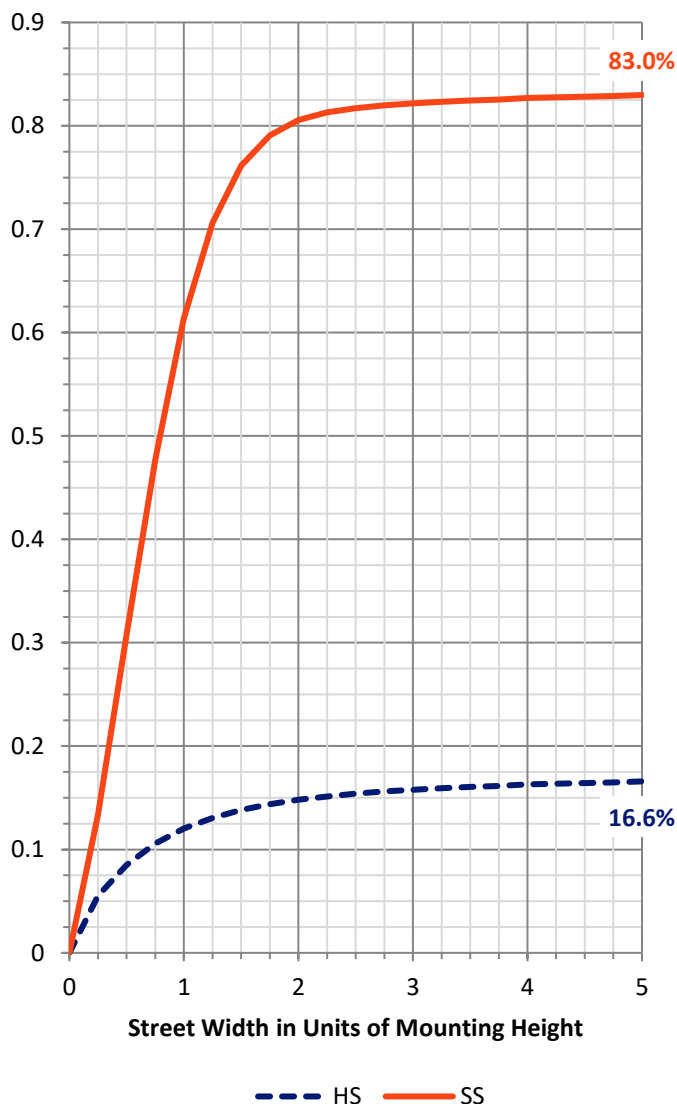
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8550.1	0.0	8550.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	42308.9	0.0	42308.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	50859.0	0.0	50859.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.1	1.1
10°-20°	2248.8	4.4
20°-30°	4343.9	8.5
30°-40°	7055.8	13.9
40°-50°	9705.8	19.1
50°-60°	11459.3	22.5
60°-70°	10040.2	19.7
70°-80°	4793.3	9.4
80°-90°	637.8	1.3
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°	50859.0	100.0
0°-180°	50859.0	100.0

Coefficient of Utilization



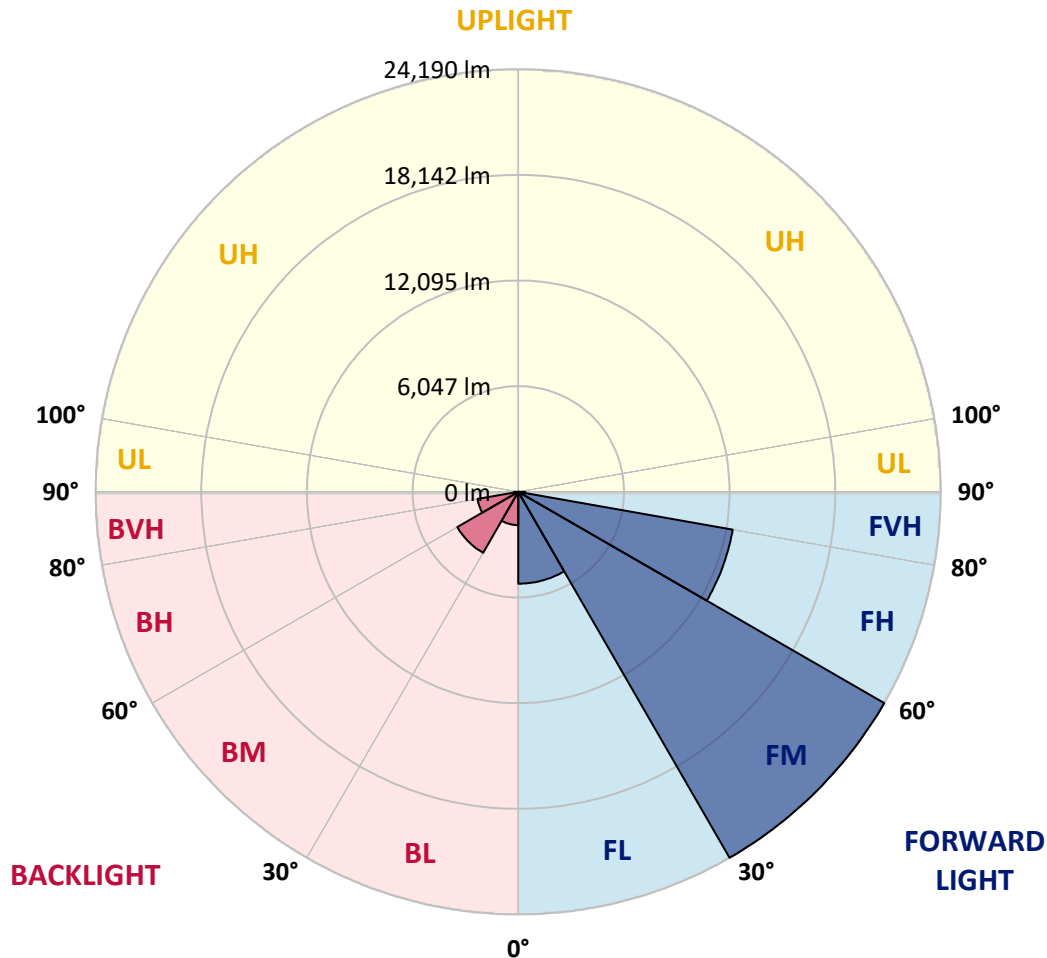
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5258.0	10.3			
FM (30°-60°)	24189.6	47.6			
FH (60°-80°)	12462.7	24.5			G5
FVH (80°-90°)	398.6	0.8			G3/500
BL (0°-30°)	1908.8	3.8	B3/2500		
BM (30°-60°)	4031.3	7.9	B3/5000		
BH (60°-80°)	2370.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	239.2	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4725.4	4725.4	4725.4	4725.4	4725.4	4725.4	4725.4	4725.4	4725.4	4725.4	4725.4
2.5°	6278.5	6237.1	6193.0	6071.6	5942.0	5795.8	5586.1	5384.8	5117.1	5108.9	4910.3
5°	8019.2	7991.6	7795.7	7682.6	7382.0	6981.9	6642.7	6115.8	5627.5	5569.6	5183.4
7.5°	9619.2	9511.6	9437.1	9233.0	8935.0	8421.9	7765.4	7053.7	6237.1	6159.9	5519.9
10°	10824.7	10813.6	10775.0	10598.5	10375.0	9864.7	9136.4	8115.7	7009.6	6857.8	5928.2
12.5°	11726.7	11735.0	11729.5	11726.7	11566.7	11133.6	10344.7	9268.8	7790.2	7682.6	6399.9
15°	12319.8	12402.6	12435.7	12573.6	12587.4	12297.7	11619.1	10383.3	8670.2	8510.2	6907.5
17.5°	12711.5	12752.9	12907.4	13141.9	13332.2	13279.8	12675.7	11415.0	9569.5	9301.9	7434.4
20°	13086.7	13158.4	13277.0	13597.0	13933.6	14088.0	13663.2	12471.5	10460.5	10289.5	8016.4
22.5°	13867.4	13969.4	14010.8	14173.6	14460.4	14733.6	14540.5	13483.9	11437.0	11205.4	8634.4
25°	15188.7	15296.3	15180.4	15141.8	15235.6	15370.8	15329.4	14438.4	12358.4	12027.4	9219.2
27.5°	16910.1	16923.8	16697.6	16482.5	16250.8	16181.8	16054.9	15285.3	13158.4	12882.5	9806.8
30°	18758.3	18692.1	18317.0	17928.0	17536.3	17150.0	16786.0	16101.8	14049.4	13732.2	10383.3
32.5°	20474.1	20438.3	20021.8	19417.6	18755.6	18391.4	17654.9	16926.7	15003.9	14697.7	10976.4
35°	21759.6	21812.0	21354.1	20694.8	19972.1	19649.3	18719.7	17792.8	15991.4	15657.7	11621.9
37.5°	22672.7	22645.1	22239.6	21668.6	21034.1	20752.8	19963.8	18739.0	17053.5	16733.5	12328.1
40°	22998.3	22981.7	22681.0	22264.4	21861.8	21762.4	21265.9	19759.7	18270.1	17894.9	13177.7
42.5°	22791.3	22827.2	22628.6	22515.5	22441.0	22512.7	22559.6	21097.6	19596.9	19252.1	14099.1
45°	22156.9	22137.6	22110.0	22294.8	22714.1	23185.8	23839.6	22361.0	21039.7	20763.8	15334.9
47.5°	21023.1	21161.0	21230.0	21740.3	22656.2	23773.4	25312.7	24054.8	23133.4	22893.4	17219.0
50°	19437.0	19547.3	19955.5	20863.1	22228.6	23994.1	26752.7	26824.4	26625.8	26176.2	19265.9
52.5°	16959.7	17130.8	17972.1	19635.5	21351.4	23903.0	27624.4	29199.6	29461.6	29125.0	21282.4
55°	14187.3	14427.3	15315.6	17497.6	20143.1	23406.5	28225.7	30576.1	31621.5	31309.8	23224.5
57.5°	11472.9	11726.7	12639.8	14752.9	18035.5	22308.6	28620.2	32109.8	34562.2	34156.7	25641.0
60°	8598.5	8863.3	9646.7	11823.2	15034.2	20162.4	28352.7	33439.5	37500.1	37326.3	28060.2
62.5°	5547.5	5839.9	6521.3	8322.7	11555.7	17230.1	26920.9	34173.3	40043.5	39833.9	29825.7
65°	3379.3	3412.4	3787.5	5166.8	7908.8	13340.4	23646.5	33199.4	41384.1	41320.7	30363.6
67.5°	2184.8	2237.2	2408.3	3095.1	4742.0	9266.0	18907.3	29985.7	40600.7	40578.7	29251.9
70°	1845.5	1862.1	1939.3	2088.3	2755.8	5619.2	13277.0	24863.1	37624.2	37624.2	26578.9
72.5°	1649.6	1671.7	1699.3	1746.2	1966.9	3183.4	7922.6	19354.2	32485.0	32700.2	22623.1
75°	1497.9	1492.4	1508.9	1517.2	1677.2	2080.0	4096.5	14314.3	25130.6	24700.3	16383.2
77.5°	1282.7	1291.0	1282.7	1318.6	1481.4	1583.5	2080.0	9605.4	15230.1	14672.9	8223.3
80°	1053.8	1067.5	1081.3	1103.4	1266.2	1202.8	1249.7	4377.8	5633.0	5514.4	2540.7
82.5°	791.7	811.0	833.1	885.5	995.8	794.4	789.0	1870.4	2033.1	1862.1	935.1
85°	320.0	378.0	571.0	623.4	626.2	435.8	485.5	780.7	830.3	811.0	366.9
87.5°	74.5	88.2	184.8	278.6	256.5	162.8	179.3	253.8	289.6	267.6	124.1
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°	4725.4	4725.4	4725.4	4725.4	4725.4	4725.4	4725.4	4725.4	4725.4	4725.4	4725.4
2.5°	4819.2	4722.7	4557.1	4430.3	4339.2	4259.2	4209.6	4179.3	4168.2	4165.5	4168.2
5°	4982.0	4811.0	4548.9	4383.4	4292.3	4239.9	4209.6	4206.8	4209.6	4212.4	4204.1
7.5°	5205.5	4959.9	4617.8	4463.4	4394.4	4355.8	4342.0	4336.5	4339.2	4336.5	4336.5
10°	5503.4	5166.8	4753.0	4593.0	4535.1	4491.0	4468.9	4455.1	4444.1	4433.0	4427.6
12.5°	5831.6	5395.8	4899.2	4744.7	4662.0	4593.0	4543.4	4507.5	4482.7	4457.9	4452.4
15°	6198.5	5638.5	5062.0	4846.8	4728.2	4626.1	4540.6	4482.7	4438.5	4402.7	4399.9
17.5°	6548.9	5867.5	5172.3	4893.8	4719.9	4576.5	4463.4	4383.4	4328.2	4281.3	4275.8
20°	6924.0	6085.4	5222.0	4863.4	4637.2	4463.4	4314.4	4217.9	4154.4	4102.0	4093.8
22.5°	7301.9	6270.3	5216.5	4766.8	4493.7	4289.6	4132.4	4030.3	3955.8	3903.4	3884.1
25°	7663.3	6419.2	5147.5	4612.3	4295.1	4082.7	3922.7	3828.9	3762.7	3699.3	3699.3
27.5°	7988.9	6507.5	5017.9	4424.7	4090.9	3867.6	3740.6	3655.1	3594.4	3553.0	3528.2
30°	8308.8	6548.9	4841.3	4187.5	3875.8	3685.4	3583.4	3533.8	3478.6	3431.7	3426.2
32.5°	8595.7	6540.6	4620.6	3955.8	3671.6	3536.5	3495.2	3456.5	3398.5	3332.4	3315.8
35°	8874.4	6485.4	4358.6	3702.0	3500.6	3448.3	3459.3	3404.1	3299.2	3216.5	3202.7
37.5°	9177.8	6386.1	4071.7	3495.2	3357.2	3406.8	3434.4	3313.0	3142.0	3012.4	2982.1
40°	9528.1	6273.0	3773.7	3288.2	3244.0	3368.2	3368.2	3144.8	2910.3	2830.3	2808.2
42.5°	9939.2	6179.2	3525.5	3114.5	3150.3	3274.4	3260.6	2921.3	2824.8	2783.4	2772.4
45°	10590.2	6146.1	3268.9	2962.7	3073.0	3164.1	3051.0	2844.1	2788.9	2755.8	2744.8
47.5°	11619.1	6184.8	3042.7	2849.6	2984.8	3053.8	2816.5	2791.7	2753.0	2706.1	2700.6
50°	12573.6	6148.9	2882.7	2786.1	2907.5	2921.3	2720.0	2728.2	2706.1	2653.7	2642.7
52.5°	13354.3	6035.8	2780.7	2753.0	2841.4	2689.6	2628.9	2659.3	2651.0	2584.8	2573.7
55°	14212.2	5966.8	2731.0	2753.0	2797.2	2488.2	2543.4	2587.6	2576.5	2529.6	2526.8
57.5°	15252.1	5980.6	2695.2	2761.3	2753.0	2386.2	2457.9	2510.3	2507.6	2493.8	2493.8
60°	16317.0	5986.1	2640.0	2758.6	2700.6	2306.2	2369.6	2444.1	2449.6	2457.9	2457.9
62.5°	16670.1	5746.1	2532.4	2708.9	2584.8	2229.0	2286.8	2388.9	2383.4	2405.5	2408.3
65°	16010.8	5081.3	2372.4	2595.8	2435.8	2173.8	2223.4	2317.2	2286.8	2344.8	2355.8
67.5°	14573.6	4204.1	2124.1	2391.7	2270.3	2115.8	2182.1	2217.9	2162.7	2275.8	2278.6
70°	12595.7	3282.7	1809.6	2102.0	2082.7	2055.1	2148.9	2093.7	2016.5	2154.4	2126.9
72.5°	10532.2	2507.6	1445.5	1718.6	1831.7	1964.1	2091.0	1933.8	1826.2	1867.5	1817.9
75°	7911.6	1853.8	1161.3	1346.2	1525.5	1834.5	2038.6	1740.7	1575.2	1536.6	1525.5
77.5°	4033.1	1211.0	869.0	1006.9	1144.8	1657.9	1966.9	1514.5	1304.8	1244.1	1216.5
80°	1440.0	753.1	612.4	695.1	772.4	1426.2	1718.6	1252.4	1012.4	1001.4	1012.4
82.5°	667.6	485.5	411.0	455.2	457.9	951.7	1310.4	935.1	769.6	1169.6	987.6
85°	286.9	242.7	231.7	226.2	209.7	424.9	736.6	502.1	783.5	350.3	322.8
87.5°	85.5	96.5	85.5	63.4	46.9	46.9	74.5	27.6	19.3	13.8	13.8
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)