

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: P383644

Luminaire Tested: **GAN-SA9B-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38625.7 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

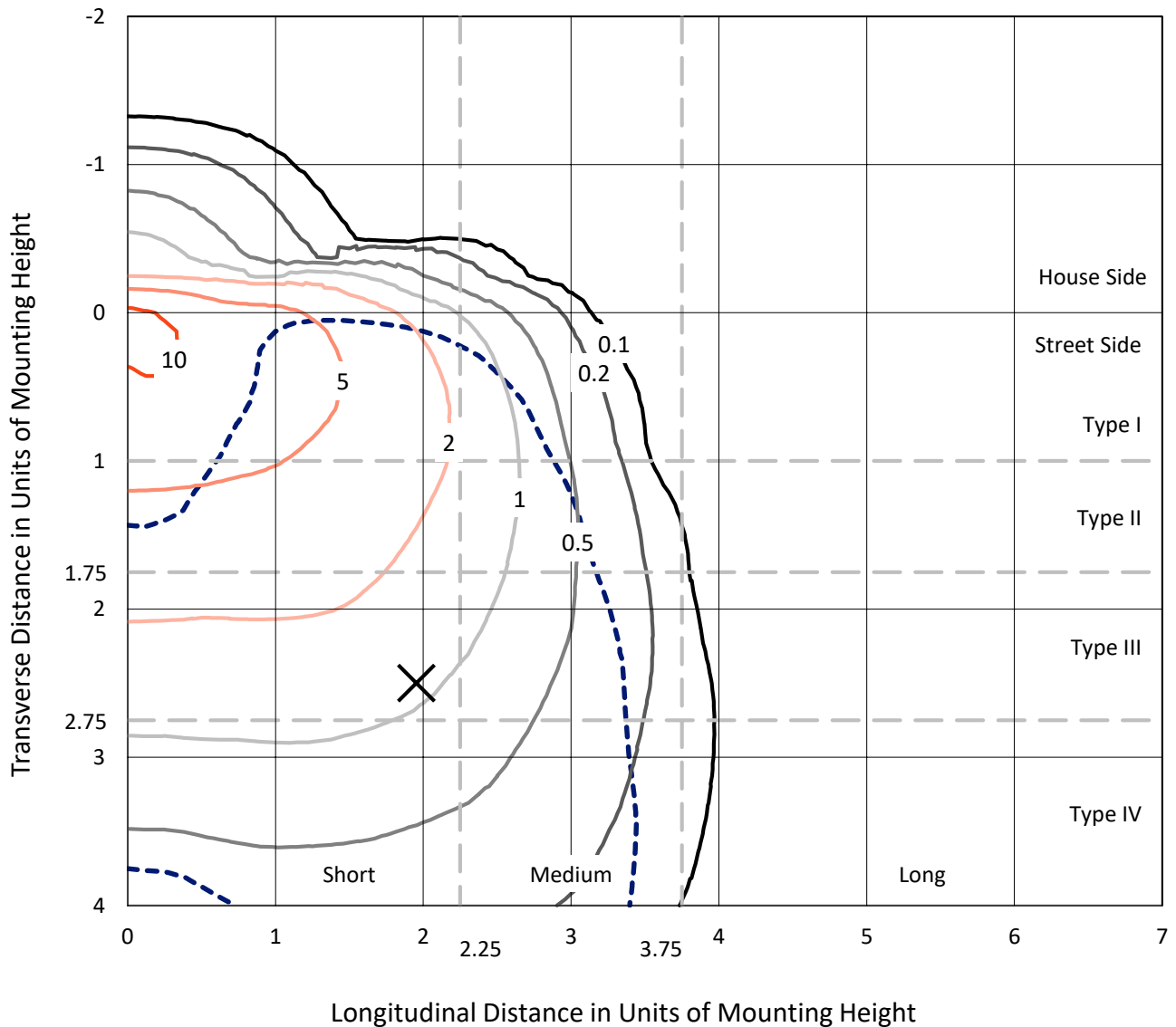
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

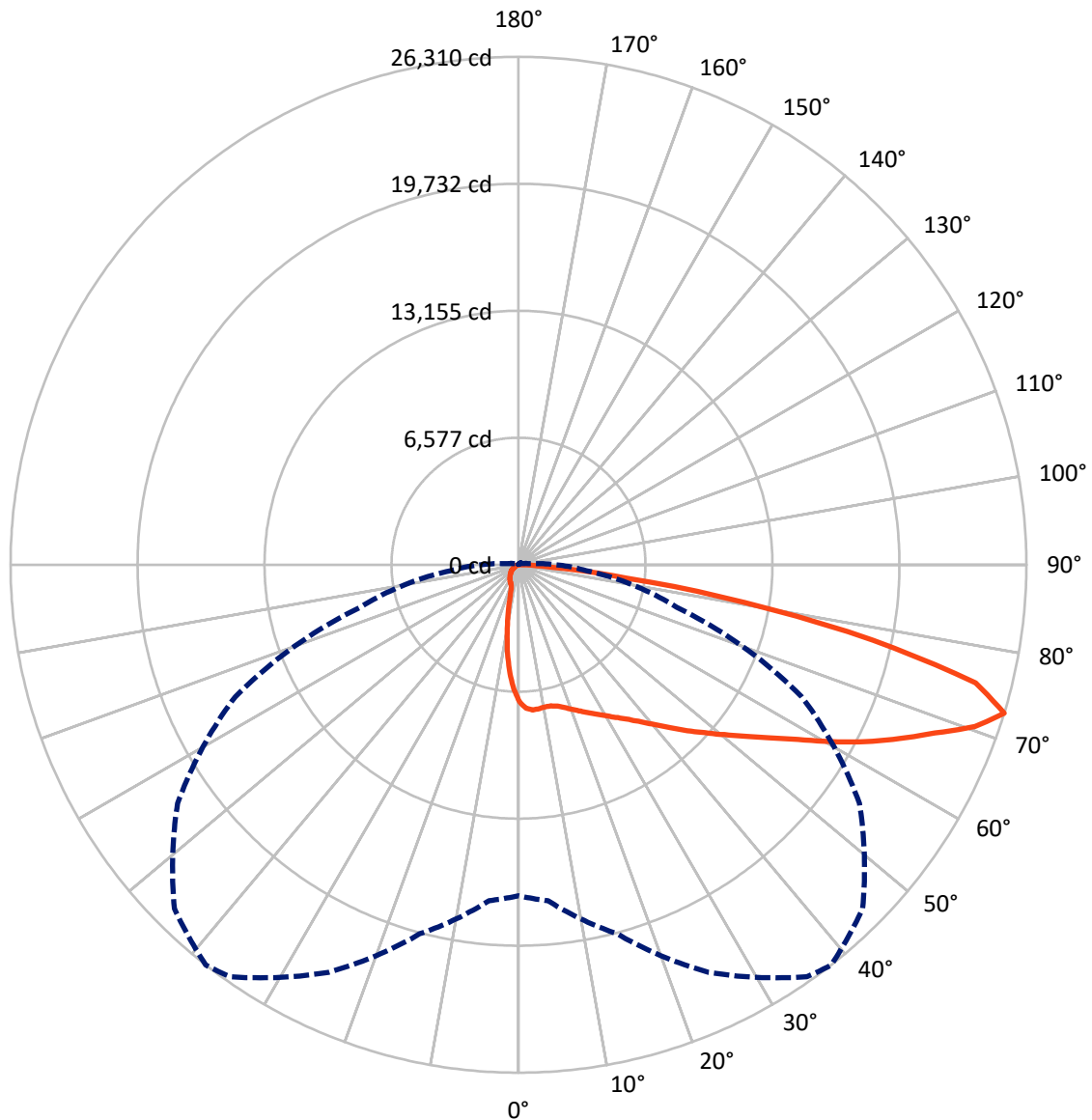
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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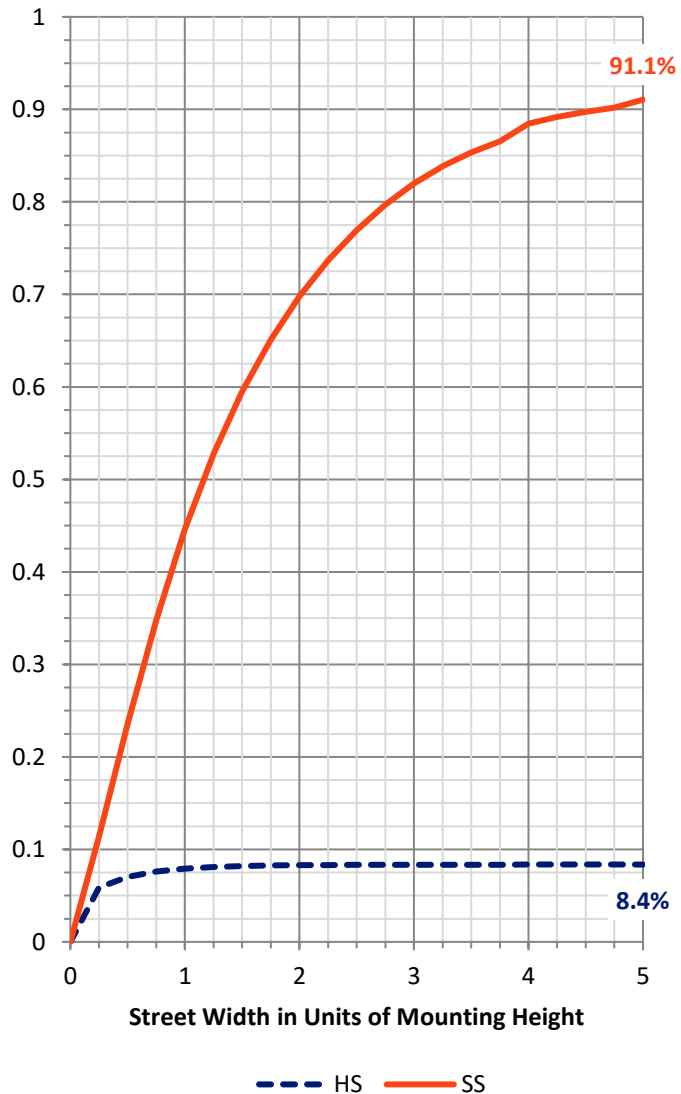
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3250.5	0.0	3250.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	35375.2	0.0	35375.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	38625.7	0.0	38625.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.3	1.6
10°-20°	1480.2	3.8
20°-30°	2354.2	6.1
30°-40°	3539.2	9.2
40°-50°	5399.3	14.0
50°-60°	7631.1	19.8
60°-70°	9571.9	24.8
70°-80°	7157.1	18.5
80°-90°	887.5	2.3
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°	38625.7	100.0
0°-180°	38625.7	100.0

Coefficient of Utilization

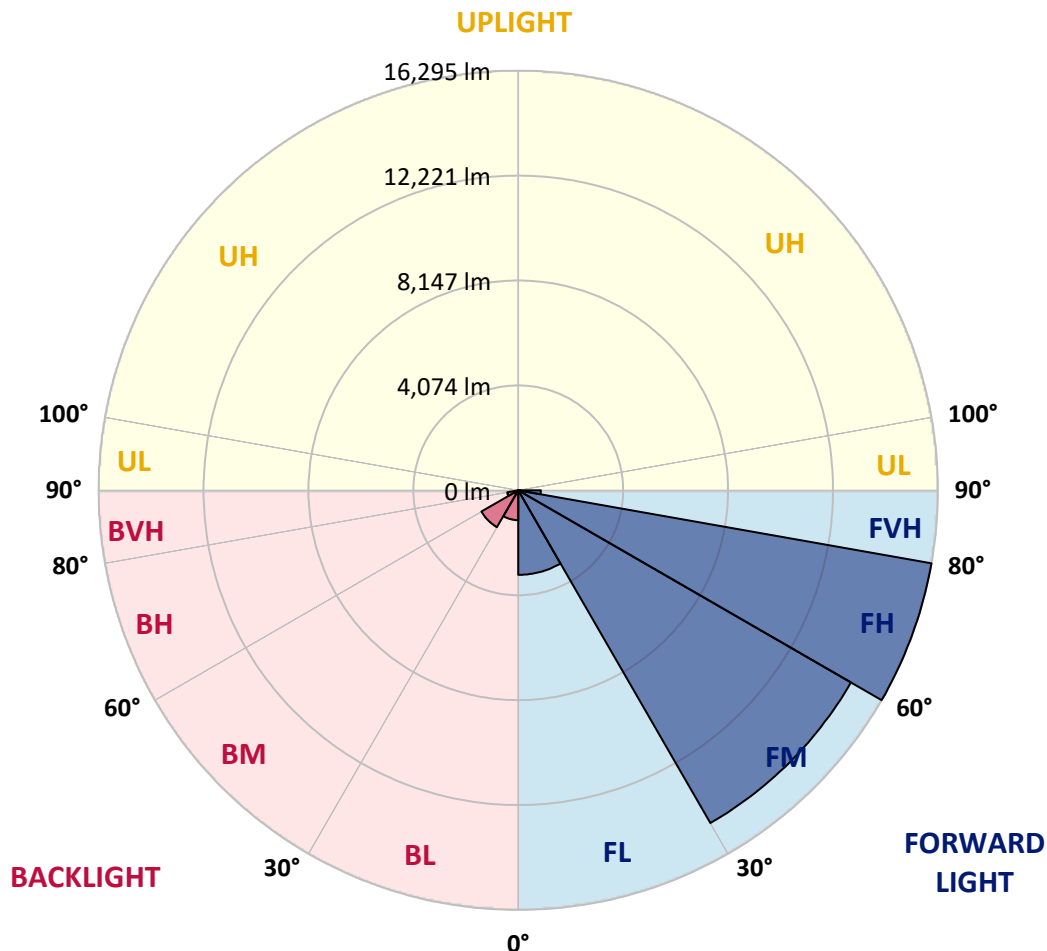


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3282.2	8.5			
FM (30°-60°)	14919.0	38.6			
FH (60°-80°)	16294.8	42.2			G5
FVH (80°-90°)	879.2	2.3			G5
BL (0°-30°)	1157.4	3.0	B3/2500		
BM (30°-60°)	1650.6	4.3	B2/2500		
BH (60°-80°)	434.2	1.1	B1/500		G1/500
BVH (80°-90°)	8.3	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°	35°	38°	45°	55°	65°	75°	85°
0°	7103.1	7103.1	7103.1	7103.1	7103.1	7103.1	7103.1	7103.1	7103.1	7103.1	7103.1
2.5°	7539.5	7541.1	7523.5	7494.6	7457.7	7438.4	7406.4	7354.9	7300.4	7202.6	7096.7
5°	7693.5	7693.5	7671.0	7632.5	7573.1	7555.5	7494.6	7412.7	7300.4	7141.6	6963.6
7.5°	7677.4	7680.6	7650.1	7610.1	7550.7	7534.6	7460.9	7369.4	7229.8	7037.4	6809.6
10°	7594.0	7602.0	7578.0	7558.7	7504.2	7486.6	7417.5	7326.2	7186.5	6981.2	6719.7
12.5°	7509.0	7517.0	7525.0	7542.6	7509.0	7502.6	7448.0	7371.1	7237.8	7024.5	6729.4
15°	7454.4	7470.5	7528.2	7597.2	7605.2	7598.8	7563.5	7491.3	7356.6	7135.2	6798.3
17.5°	7454.4	7480.1	7600.4	7731.9	7778.5	7783.3	7752.8	7651.7	7491.3	7254.0	6862.5
20°	7517.0	7552.3	7739.9	7926.1	8003.0	8003.0	7943.7	7802.5	7614.8	7361.4	6905.8
22.5°	7677.4	7723.9	7959.8	8174.7	8256.5	8238.9	8158.7	7953.4	7743.2	7483.3	6960.3
25°	7993.4	8028.7	8274.2	8490.7	8540.4	8500.4	8399.3	8136.2	7906.8	7648.6	7059.8
27.5°	8400.9	8405.7	8659.1	8842.1	8811.5	8784.3	8657.5	8365.6	8142.7	7884.3	7231.5
30°	8848.4	8848.4	9071.4	9211.0	9117.9	9095.4	8968.8	8643.1	8444.2	8205.2	7475.3
32.5°	9281.6	9300.9	9482.0	9570.3	9466.0	9443.6	9320.0	8994.5	8845.2	8694.4	7855.5
35°	9700.2	9714.6	9886.3	9934.5	9835.0	9841.4	9753.2	9477.3	9421.1	9401.8	8428.2
37.5°	10106.1	10109.3	10284.2	10314.7	10264.9	10319.4	10327.4	10083.6	10187.9	10343.5	9235.1
40°	10476.7	10479.8	10653.1	10731.7	10816.8	10887.3	10949.9	10819.9	11164.8	11525.8	10195.9
42.5°	10773.4	10807.1	11026.8	11176.1	11400.7	11535.4	11705.5	11699.0	12327.8	12870.0	11357.3
45°	11034.9	11092.7	11399.1	11660.5	12045.5	12260.5	12526.7	12735.3	13636.8	14366.7	12533.1
47.5°	11379.8	11434.3	11784.0	12212.3	12725.7	13007.9	13449.1	13899.9	15075.7	15836.1	13681.7
50°	11865.9	11841.7	12186.7	12801.0	13460.3	13830.9	14459.8	15135.0	16503.4	17116.2	14357.1
52.5°	12384.0	12374.3	12629.4	13441.1	14326.6	14759.7	15590.7	16412.0	17868.6	17998.4	14666.7
55°	13025.6	12956.6	13171.6	14171.0	15354.9	15820.0	16798.6	17676.0	18956.2	18495.8	14822.2
57.5°	13697.8	13583.8	13789.2	14984.3	16514.7	17064.8	18136.4	18908.0	19679.6	18835.8	14820.6
60°	14392.3	14257.6	14501.4	16001.3	17955.1	18592.0	19586.5	19740.5	20355.0	19007.5	14711.6
62.5°	14973.0	14892.8	15255.4	17089.0	19564.1	20189.7	20682.2	20497.7	20924.4	19140.6	14456.5
65°	15587.4	15592.2	16177.7	18357.8	21274.1	21696.0	21737.8	21479.4	21400.8	19113.3	13593.5
67.5°	16418.3	16495.4	17472.3	20080.6	22937.6	23263.3	23260.1	22543.0	21748.9	18029.0	11679.7
70°	17297.4	17478.7	18964.2	22052.2	24753.5	25084.0	24914.0	23219.9	20478.5	14578.4	8266.2
72.5°	17149.9	17464.3	19793.5	23295.3	26057.7	26309.5	25204.2	21556.5	16185.8	8473.1	3519.5
75°	13231.0	13595.1	18149.2	22063.3	24689.4	24463.2	21655.9	16774.5	8845.2	2364.5	792.5
77.5°	6989.2	7183.3	11989.4	16808.2	19251.3	18778.0	15255.4	9305.6	2696.6	585.5	356.1
80°	3660.6	3705.6	5224.7	9536.6	11881.9	11885.1	9040.9	4087.4	1111.7	300.0	239.0
82.5°	1960.3	1998.7	2760.7	4406.6	6225.6	5643.4	3461.7	2249.0	646.5	170.0	229.3
85°	471.6	479.7	1565.7	2013.2	2447.9	1748.5	1028.2	1888.1	174.9	99.5	186.1
87.5°	181.3	184.4	580.7	871.1	624.0	404.2	481.2	704.2	22.5	38.5	28.9
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°	7103.1	7103.1	7103.1	7103.1	7103.1	7103.1	7103.1	7103.1	7103.1	7103.1	7103.1
2.5°	7032.5	6990.9	6888.1	6758.3	6642.8	6559.3	6434.2	6352.4	6297.8	6296.2	6275.4
5°	6854.5	6769.5	6548.1	6285.1	6046.0	5831.0	5577.6	5377.1	5227.9	5203.8	5152.5
7.5°	6663.6	6524.0	6184.0	5773.3	5372.2	4964.8	4491.5	4198.0	3946.2	3825.9	3813.0
10°	6546.5	6350.8	5867.9	5274.4	4645.6	3983.1	3363.9	2935.6	2625.9	2537.7	2472.0
12.5°	6522.4	6264.2	5624.1	4806.0	3907.7	3031.8	2346.8	1891.3	1644.3	1565.7	1544.8
15°	6546.5	6224.0	5418.8	4342.4	3160.2	2151.1	1575.2	1310.6	1217.5	1195.1	1193.5
17.5°	6561.0	6176.0	5186.2	3827.4	2435.1	1536.8	1206.4	1129.3	1114.9	1113.3	1116.5
20°	6559.3	6102.2	4908.7	3253.2	1811.1	1207.9	1090.8	1074.8	1071.6	1073.1	1071.6
22.5°	6548.1	6015.6	4603.9	2661.2	1368.4	1079.6	1041.1	1031.5	1029.8	1029.8	1029.8
25°	6569.0	5946.5	4268.6	2095.1	1127.7	1020.2	996.2	988.2	986.5	986.5	983.3
27.5°	6644.4	5908.1	3901.2	1612.1	1018.6	967.3	948.0	946.5	941.6	940.0	943.2
30°	6766.3	5908.1	3498.6	1254.4	952.9	912.7	898.3	895.1	893.5	891.9	893.5
32.5°	6981.2	5953.0	3059.1	1042.7	890.3	851.8	842.2	847.0	842.2	842.2	842.2
35°	7369.4	6087.8	2598.7	909.6	824.5	792.5	782.8	789.2	786.0	786.0	784.5
37.5°	7935.7	6338.0	2135.1	829.4	766.8	733.1	720.3	729.9	726.7	726.7	725.1
40°	8625.5	6702.1	1694.0	768.3	710.7	675.4	664.1	668.9	660.9	660.9	664.1
42.5°	9477.3	7164.1	1309.0	709.0	654.5	620.8	614.4	609.6	595.2	587.2	588.7
45°	10423.7	7645.3	1020.2	651.2	601.6	574.3	564.7	551.8	527.7	511.7	513.3
47.5°	11269.1	8015.9	829.4	595.2	553.4	532.6	518.1	494.1	458.8	439.5	441.2
50°	11713.5	8072.0	705.8	539.0	508.5	487.7	466.8	429.9	388.2	367.3	365.7
52.5°	11827.3	7809.0	614.4	487.7	463.6	439.5	412.3	362.6	316.0	293.5	290.4
55°	11869.0	7407.9	532.6	439.5	415.5	388.2	352.9	296.8	253.5	231.0	229.3
57.5°	11731.1	6809.6	468.4	396.2	367.3	333.7	290.4	237.5	195.7	178.0	178.0
60°	11424.7	5999.4	418.6	349.7	317.7	279.1	234.2	184.4	146.0	131.5	131.5
62.5°	10813.5	4950.3	372.2	301.5	271.1	231.0	189.3	139.5	102.7	94.6	96.2
65°	9660.1	3755.3	325.7	258.2	231.0	190.9	147.6	99.5	68.9	68.9	72.2
67.5°	7877.9	2608.3	277.5	219.8	198.9	155.6	112.3	68.9	48.2	54.5	60.9
70°	5215.1	1463.0	237.5	181.3	170.0	123.5	83.4	46.5	38.5	51.3	62.6
72.5°	1968.3	569.5	198.9	146.0	147.6	94.6	59.3	35.3	35.3	56.2	73.8
75°	548.6	279.1	142.8	107.5	115.5	68.9	43.3	30.5	33.7	64.2	86.6
77.5°	322.4	205.3	93.1	62.6	78.6	48.2	28.9	24.0	28.9	54.5	83.4
80°	259.9	109.1	54.5	32.0	43.3	27.3	19.3	14.4	8.0	20.9	43.3
82.5°	259.9	65.8	25.7	22.5	22.5	14.4	9.6	6.4	1.6	0.0	11.3
85°	174.9	27.3	16.0	14.4	11.3	4.8	3.2	1.6	0.0	0.0	0.0
87.5°	28.9	11.3	6.4	3.2	1.6	0.0	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)