

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: P653131

Luminaire Tested: **GLAN-SA9C-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P653131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9C-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41965.9 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

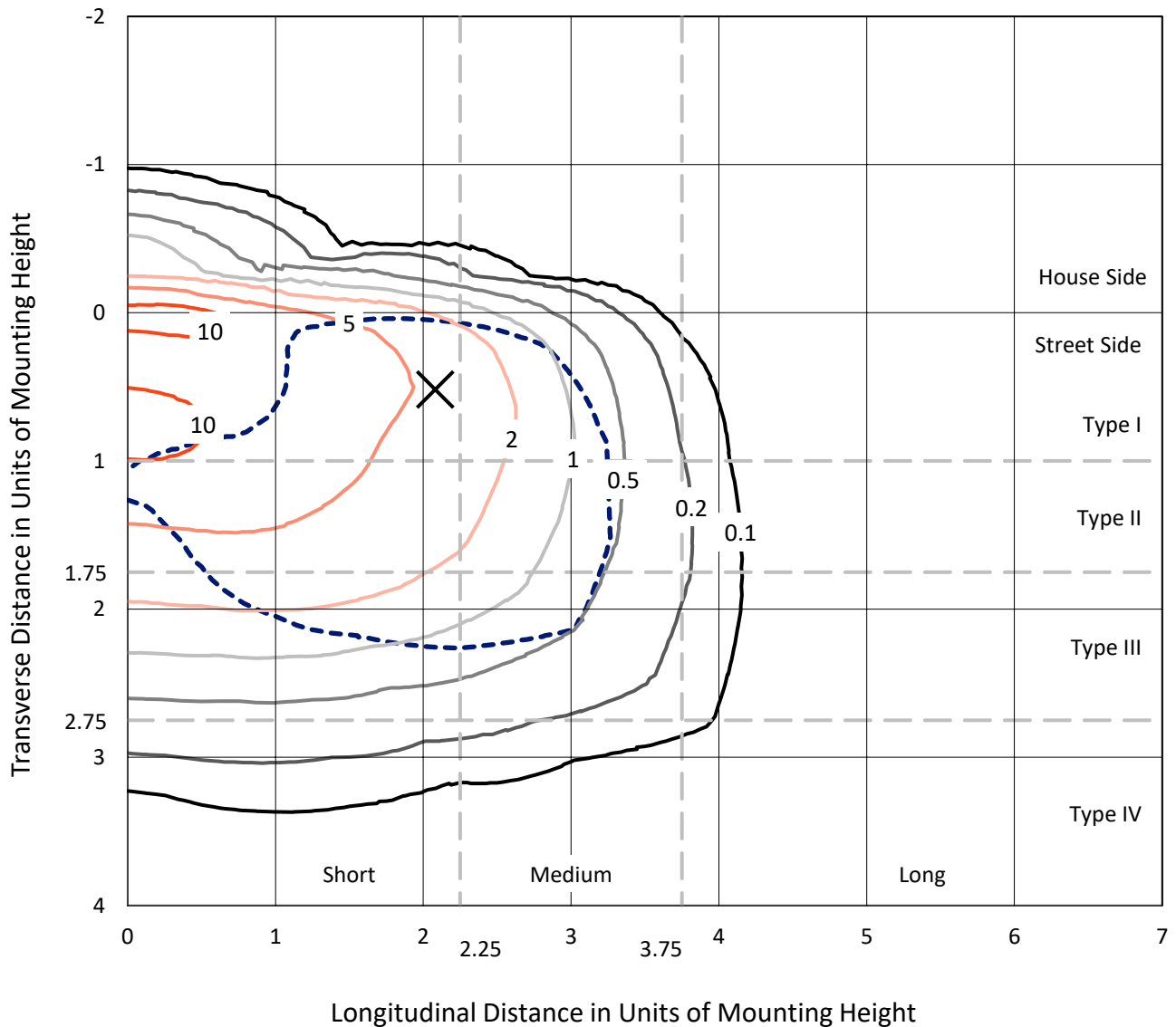
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

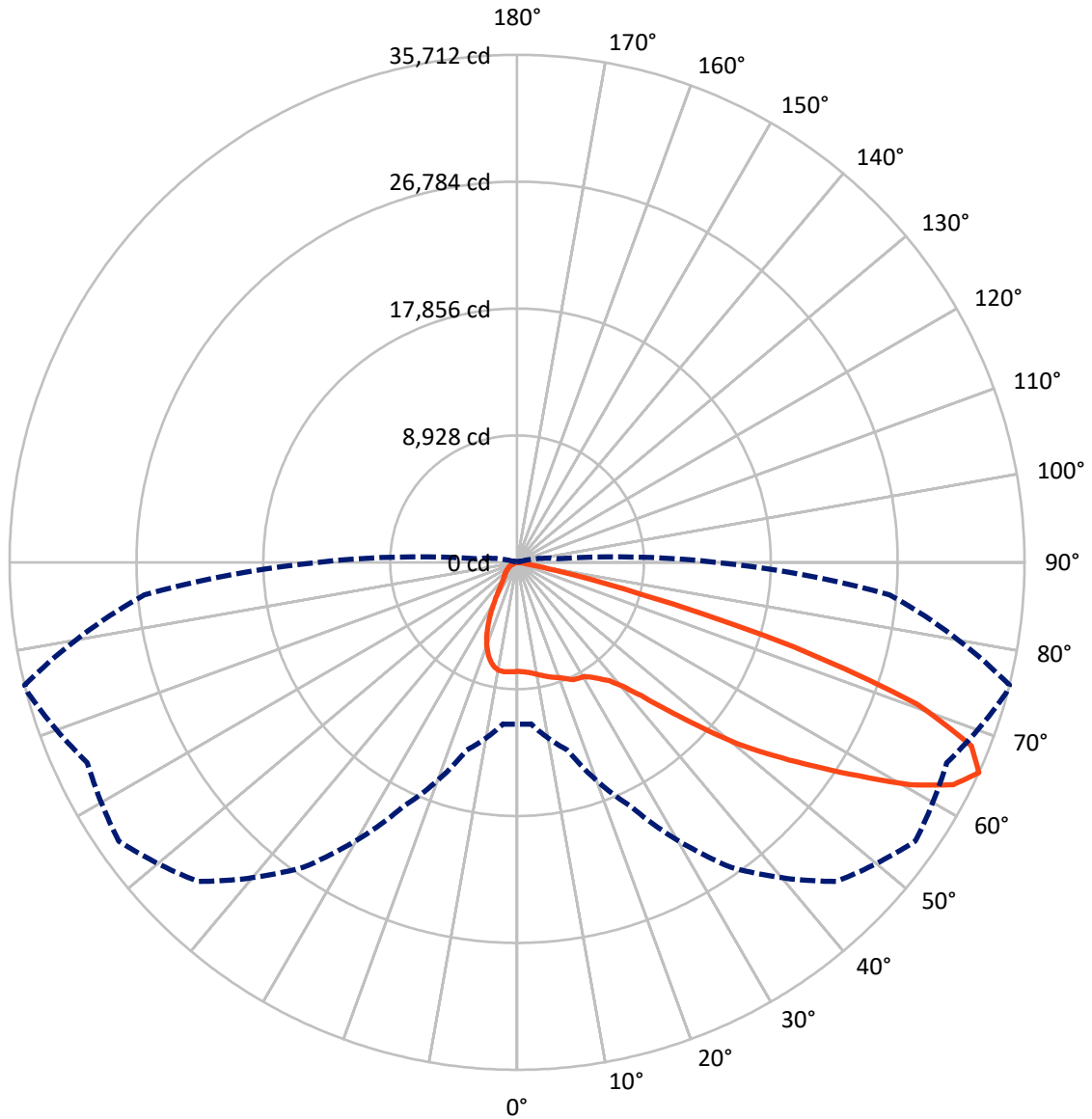
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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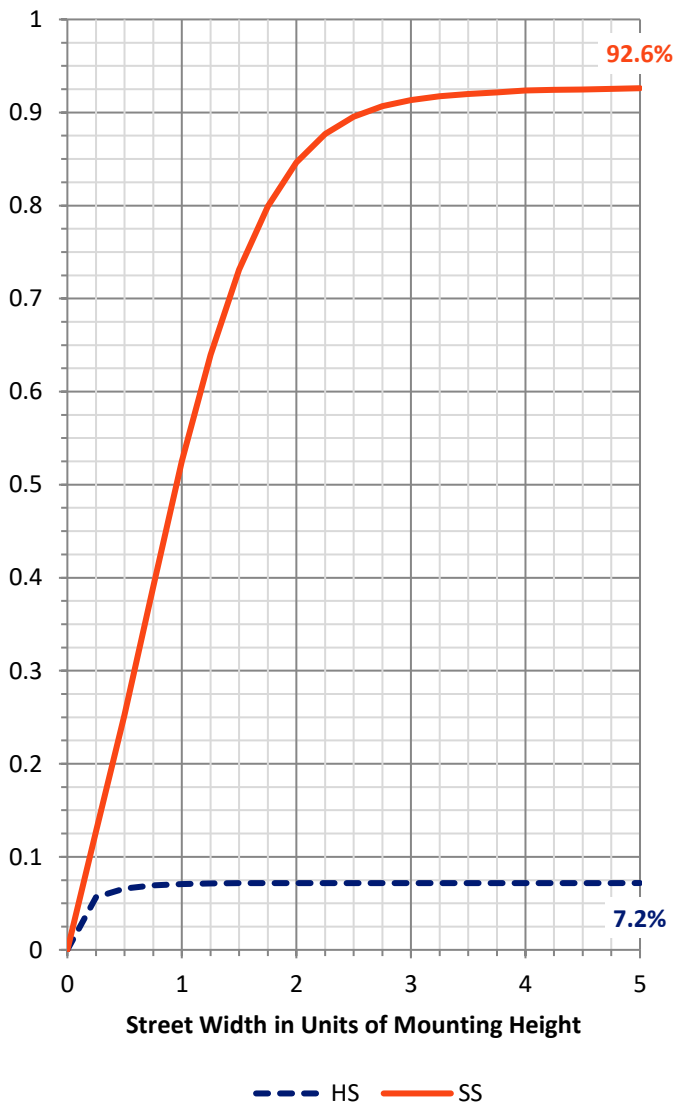
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3030.8	0.0	3030.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	38935.1	0.0	38935.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	41965.9	0.0	41965.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.4	1.5
10°-20°	1408.1	3.4
20°-30°	2269.0	5.4
30°-40°	3945.2	9.4
40°-50°	6519.2	15.5
50°-60°	10070.9	24.0
60°-70°	12298.0	29.3
70°-80°	4667.4	11.1
80°-90°	155.8	0.4
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°	41965.9	100.0
0°-180°	41965.9	100.0

Coefficient of Utilization



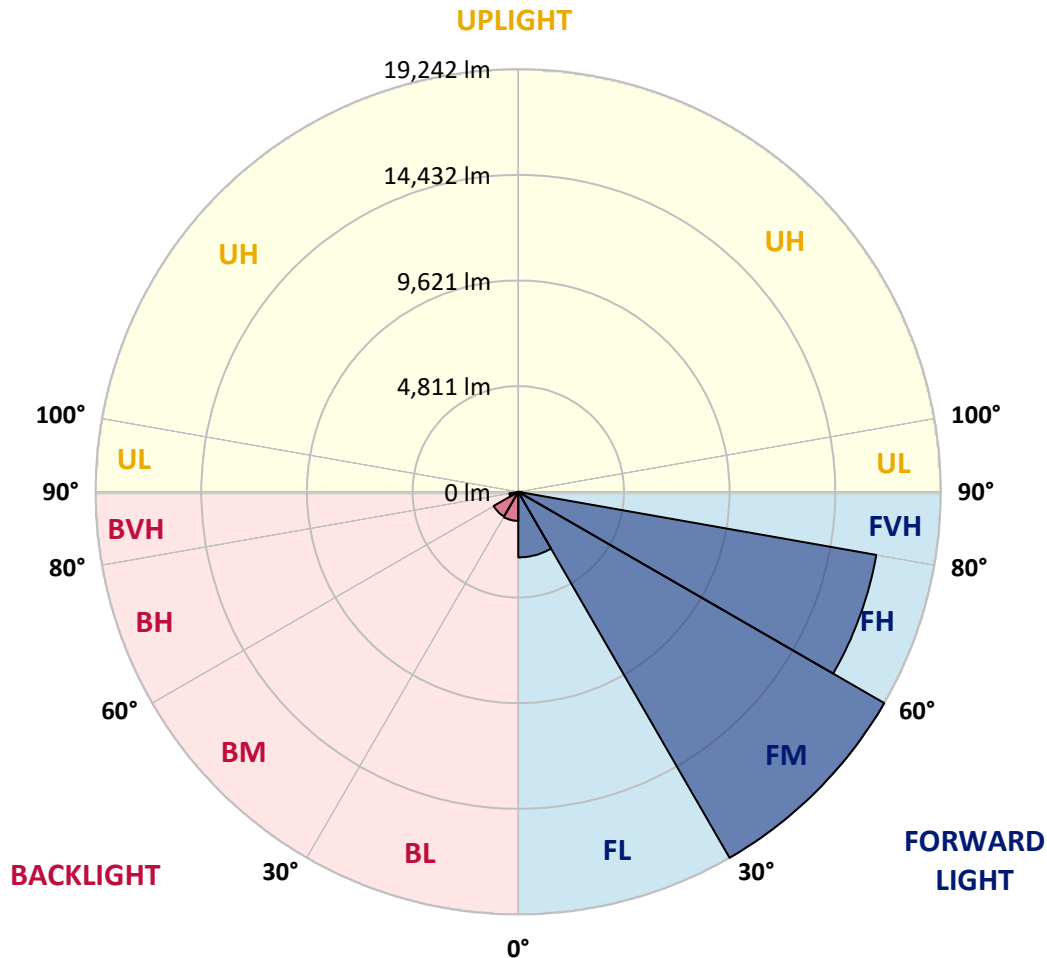
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2985.4	7.1			
FM (30°-60°)	19242.0	45.9			
FH (60°-80°)	16554.1	39.4			G5
FVH (80°-90°)	153.6	0.4			G2/225
BL (0°-30°)	1324.1	3.2	B3/2500		
BM (30°-60°)	1293.3	3.1	B2/2500		
BH (60°-80°)	411.2	1.0	B1/500		G1/500
BVH (80°-90°)	2.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7676.9	7676.9	7676.9	7676.9	7676.9	7676.9	7676.9	7676.9	7676.9	7676.9	7676.9
2.5°	7336.1	7339.2	7356.9	7401.4	7469.5	7525.8	7573.2	7650.2	7703.6	7709.5	7727.3
5°	6829.5	6793.9	6829.5	6945.1	7048.8	7205.8	7398.4	7591.0	7762.9	7774.7	7857.6
7.5°	6260.7	6290.3	6346.5	6465.1	6660.6	6900.7	7179.1	7522.8	7848.7	7878.4	8041.3
10°	5682.9	5748.1	5839.9	6020.6	6293.2	6604.3	6983.6	7475.4	7985.0	8026.5	8308.0
12.5°	5149.5	5179.1	5291.7	5534.7	5872.5	6311.0	6835.4	7448.7	8136.2	8186.5	8592.4
15°	4740.6	4779.2	4877.0	5096.2	5472.5	6035.4	6714.0	7439.9	8284.3	8355.4	8876.9
17.5°	4663.6	4687.3	4728.8	4877.0	5205.9	5816.2	6604.3	7436.9	8426.5	8512.4	9140.6
20°	4980.7	4959.9	4918.4	4903.6	5084.3	5647.3	6524.3	7460.6	8562.8	8660.6	9419.1
22.5°	5774.7	5801.4	5558.4	5271.1	5211.8	5620.7	6512.5	7573.2	8779.1	8894.7	9730.2
25°	7460.6	7256.1	6876.9	6189.5	5671.0	5783.6	6645.8	7839.9	9031.0	9158.3	10011.7
27.5°	9324.3	9262.1	8672.5	7540.6	6574.7	6127.3	6882.8	8044.3	9113.9	9244.3	10171.6
30°	11155.4	11229.5	10553.9	9303.6	7887.2	6764.3	7105.0	8121.4	9188.0	9324.3	10376.1
32.5°	12853.1	12942.0	12349.4	11111.0	9433.9	7866.5	7487.3	8420.6	9499.1	9638.4	10716.9
35°	14189.4	14201.2	13753.8	12767.2	11122.7	9205.8	8314.0	8945.0	9919.8	10082.7	11078.3
37.5°	15416.0	15398.3	14873.8	14023.4	12530.1	10536.1	9353.9	9549.5	10399.8	10568.7	11599.8
40°	16325.7	16337.5	16168.6	15368.6	13842.7	11765.8	10177.6	10115.4	11205.7	11469.4	12358.3
42.5°	16933.0	17042.7	17125.6	16719.7	15493.1	13279.7	11442.7	11327.2	12604.2	12823.5	13430.9
45°	17424.8	17620.5	18035.2	18014.5	17078.2	15137.5	13179.1	12942.0	14586.4	14820.5	14796.8
47.5°	17783.4	17981.9	18669.3	19084.1	18568.5	16939.0	15362.7	15158.3	16953.8	17208.6	16304.9
50°	17967.1	18204.1	19081.1	19884.1	19733.0	18675.2	17851.6	17863.4	19813.0	20058.9	18053.0
52.5°	17537.5	17845.6	19300.4	20746.3	21039.6	20337.4	20183.3	20574.5	22358.2	22568.5	19632.2
55°	16165.6	16553.8	19001.1	21481.1	22553.7	22298.9	22832.2	23427.7	25140.3	25276.6	21253.0
57.5°	15297.5	15709.4	18118.2	22106.3	24372.9	24764.0	25608.4	26044.0	28011.4	28358.0	23113.7
60°	14565.7	14888.6	17392.3	22239.6	26221.8	27780.2	28601.0	29051.3	31555.0	31780.2	25161.0
62.5°	13347.9	13718.3	16165.6	21309.3	27152.1	30195.0	31895.8	31694.3	34295.7	34452.7	26417.3
65°	11389.4	11422.0	13676.8	18971.5	26192.1	31762.4	34209.8	33365.3	35605.3	35712.0	26319.5
67.5°	8500.6	8814.7	10521.3	14912.4	22124.0	30423.2	34959.4	33409.8	34778.6	34482.3	24230.7
70°	5475.5	5715.4	7131.8	10340.6	15952.3	25389.2	32473.5	31119.4	30523.9	29866.2	19833.7
72.5°	2527.4	2835.5	4237.0	5908.0	9460.6	18085.6	26361.1	25282.5	21969.9	20346.3	12607.2
75°	1102.2	1179.3	2091.8	3117.0	4435.5	9564.3	17380.4	15694.6	9922.8	9063.5	5045.8
77.5°	672.5	722.9	1096.2	1671.1	1742.2	3644.4	9362.8	6847.3	3066.6	2705.2	1368.9
80°	456.3	512.6	797.0	874.1	595.5	1016.3	3514.0	1828.1	619.2	592.6	293.3
82.5°	222.2	281.5	589.6	488.9	257.8	325.9	1022.2	391.1	180.7	168.9	103.7
85°	32.6	56.3	331.9	320.0	115.6	77.0	180.7	97.8	62.2	59.3	47.4
87.5°	0.0	0.0	112.6	50.4	11.9	11.9	20.8	20.8	23.7	20.8	23.7
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°	7676.9	7676.9	7676.9	7676.9	7676.9	7676.9	7676.9	7676.9	7676.9	7676.9	7676.9
2.5°	7736.2	7751.0	7694.6	7614.7	7528.7	7442.8	7321.3	7211.7	7146.6	7185.1	7090.2
5°	7875.4	7863.6	7715.4	7472.5	7149.5	6761.4	6376.2	6047.3	5940.7	5780.6	5762.9
7.5°	8068.0	8035.4	7721.3	7164.3	6435.4	5706.6	4995.5	4524.3	4254.7	4026.6	4032.5
10°	8337.6	8242.8	7653.2	6622.1	5422.1	4322.9	3416.2	2794.1	2524.4	2438.5	2370.4
12.5°	8616.1	8432.5	7463.5	5890.3	4222.2	2954.0	2077.0	1697.7	1531.8	1478.5	1472.6
15°	8865.1	8574.7	7131.8	5010.3	3069.6	1887.4	1416.2	1291.9	1271.1	1274.0	1271.1
17.5°	9111.0	8687.3	6672.5	4077.0	2085.8	1354.0	1217.8	1188.2	1197.0	1208.9	1205.9
20°	9315.4	8711.0	6085.8	3111.0	1475.5	1188.2	1143.7	1137.8	1146.6	1155.5	1155.5
22.5°	9537.6	8728.7	5389.5	2154.1	1205.9	1105.2	1081.4	1081.4	1093.3	1105.2	1108.1
25°	9703.5	8630.9	4557.0	1546.6	1063.7	1025.2	1013.3	1016.3	1028.1	1034.1	1031.1
27.5°	9730.2	8355.4	3674.0	1185.1	965.9	927.4	915.5	927.4	912.6	921.5	915.5
30°	9753.9	8005.8	2779.2	998.5	877.0	817.8	800.0	782.2	770.4	755.6	752.6
32.5°	9828.0	7594.0	2029.6	897.8	794.1	728.9	687.4	637.1	598.5	586.7	583.7
35°	9860.6	7099.1	1490.3	817.8	720.0	648.9	574.8	503.7	447.4	426.6	441.4
37.5°	9985.0	6619.2	1155.5	758.5	654.8	565.9	471.1	382.2	328.9	317.1	322.9
40°	10239.8	6097.7	968.8	708.1	598.5	488.9	373.3	287.4	251.9	240.0	237.0
42.5°	10648.7	5579.2	862.2	660.7	542.2	411.8	293.3	225.2	195.5	186.7	186.7
45°	11146.4	5081.4	788.1	610.4	483.0	331.9	231.1	180.7	163.0	157.0	157.0
47.5°	11801.2	4645.9	726.0	560.0	417.8	263.7	186.7	157.0	145.2	148.2	151.1
50°	12465.0	4322.9	657.7	503.7	343.7	216.3	160.0	139.3	136.3	139.3	139.3
52.5°	12965.7	4133.3	565.9	426.6	269.6	180.7	142.2	130.4	127.4	121.4	121.4
55°	13641.3	4091.8	450.4	346.7	213.4	151.1	127.4	118.5	109.7	103.7	100.8
57.5°	14509.4	4139.1	346.7	269.6	165.9	124.5	112.6	97.8	86.0	74.1	74.1
60°	15048.6	4032.5	269.6	207.4	121.4	100.8	86.0	71.1	56.3	47.4	44.4
62.5°	14876.8	3582.2	213.4	154.1	86.0	74.1	56.3	47.4	32.6	23.7	20.8
65°	13990.9	2891.8	171.8	106.6	62.2	44.4	29.6	29.6	14.8	2.9	0.0
67.5°	12245.7	2142.2	136.3	71.1	35.6	20.8	14.8	8.9	0.0	0.0	0.0
70°	9967.2	1546.6	106.6	44.4	20.8	14.8	5.9	2.9	0.0	0.0	0.0
72.5°	6328.8	885.9	82.9	26.7	14.8	5.9	0.0	0.0	0.0	0.0	0.0
75°	2447.4	346.7	56.3	17.7	5.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	693.3	163.0	32.6	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	180.7	71.1	17.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	86.0	29.6	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	50.4	11.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.7	2.9	0.0	0.0	0.0	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)