

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: P319672

Luminaire Tested: **GAN-SA8A-740-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37351 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

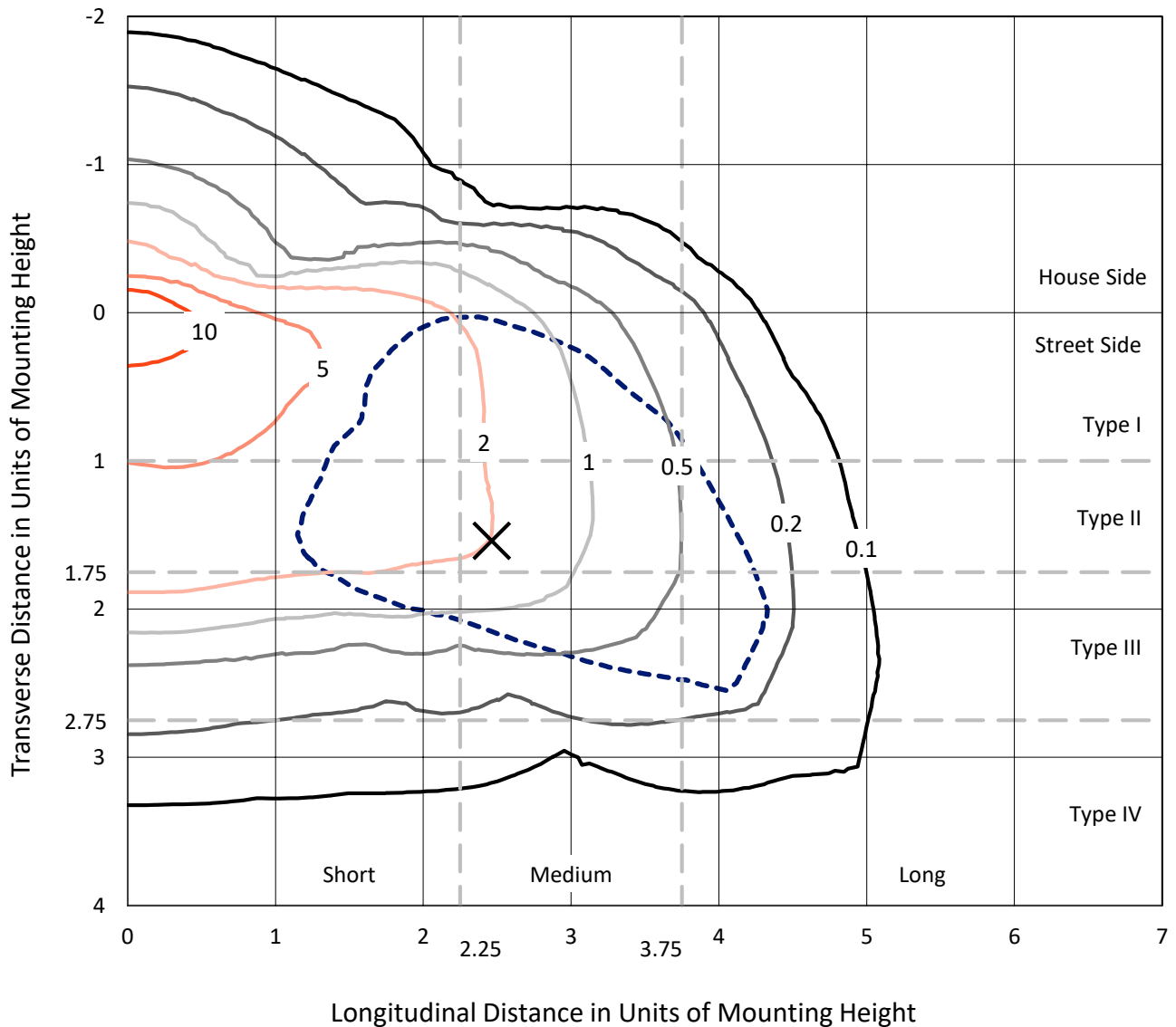
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

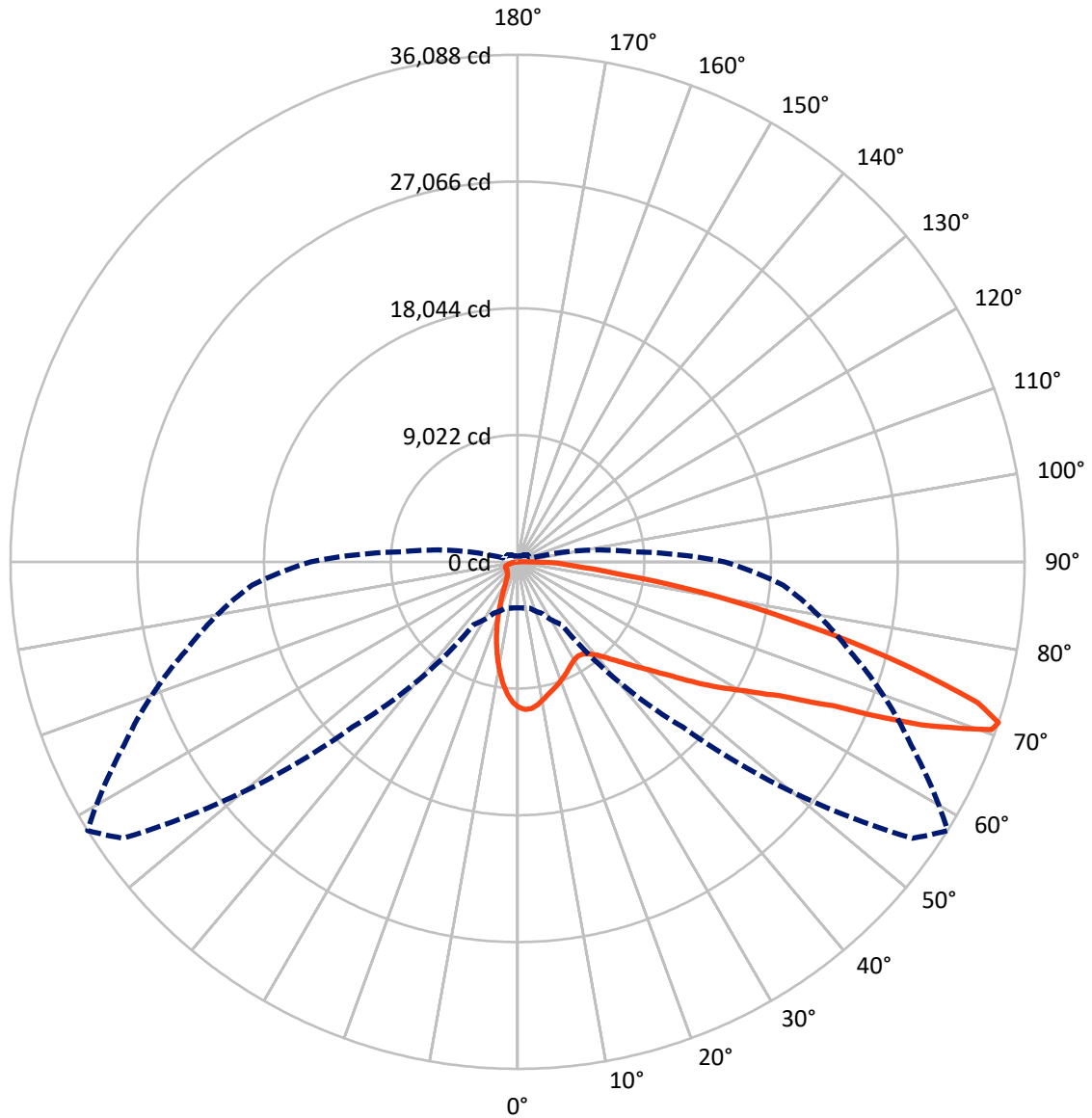
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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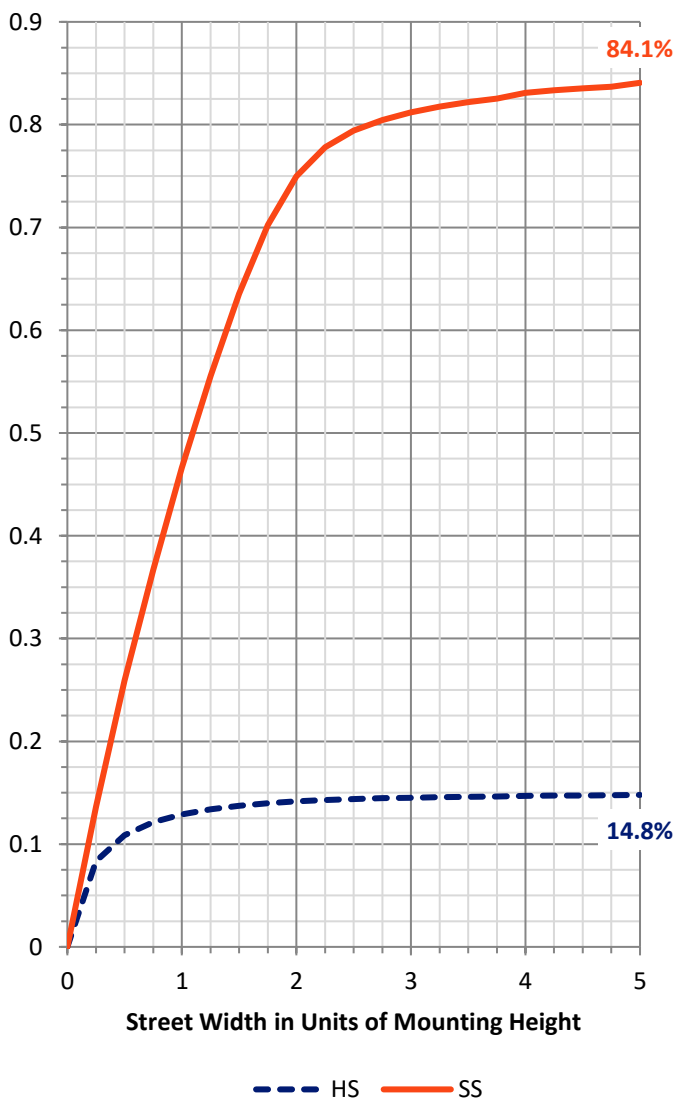
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5584.2	0.0	5584.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	31766.8	0.0	31766.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	37351.0	0.0	37351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	892.8	2.4
10°-20°	1985.2	5.3
20°-30°	2523.0	6.8
30°-40°	3213.8	8.6
40°-50°	4557.3	12.2
50°-60°	7052.6	18.9
60°-70°	9601.3	25.7
70°-80°	6405.1	17.1
80°-90°	1119.8	3.0
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°	37351.0	100.0
0°-180°	37351.0	100.0

Coefficient of Utilization

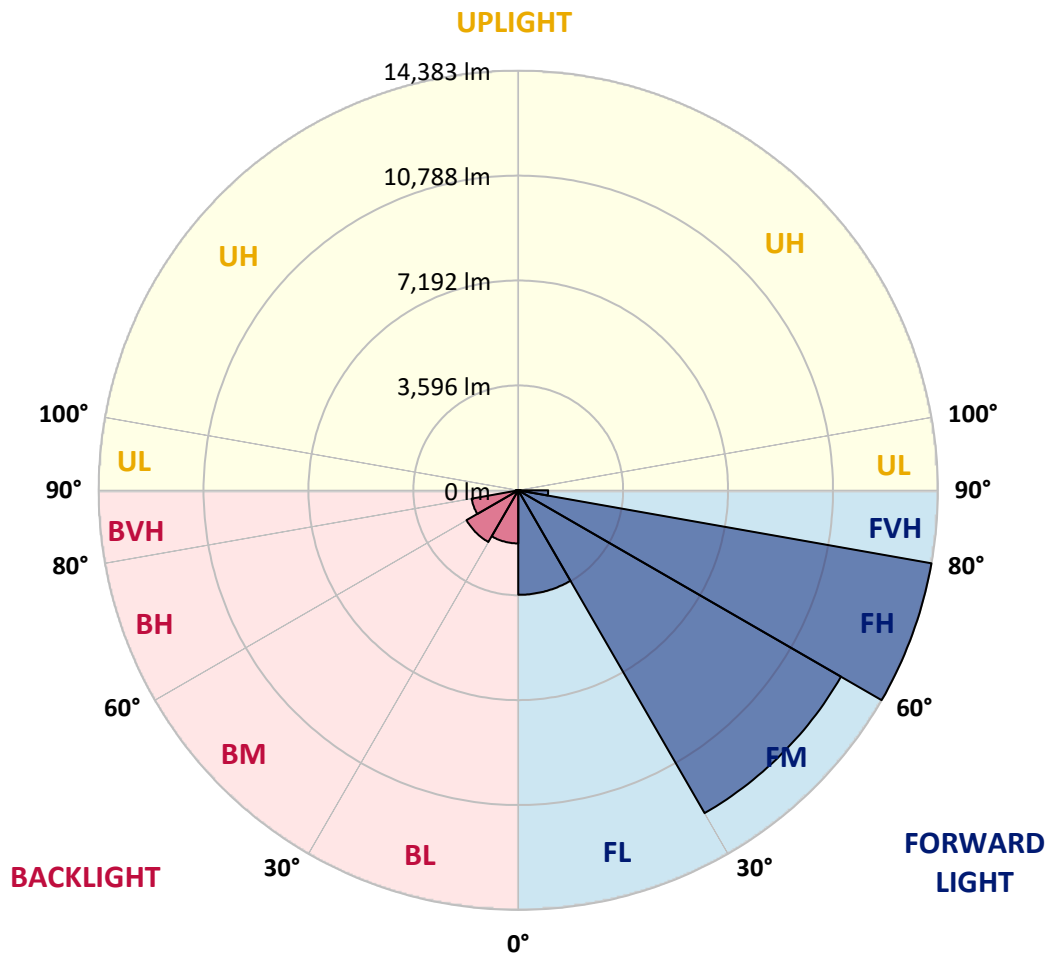


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3580.7	9.6			
FM (30°-60°)	12775.9	34.2			
FH (60°-80°)	14383.4	38.5			G5
FVH (80°-90°)	1026.8	2.7			G5
BL (0°-30°)	1820.3	4.9	B3/2500		
BM (30°-60°)	2047.9	5.5	B2/2500		
BH (60°-80°)	1623.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	93.0	0.2			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10348.7	10348.7	10348.7	10348.7	10348.7	10348.7	10348.7	10348.7	10348.7	10348.7	10348.7
2.5°	10623.3	10608.9	10614.1	10603.7	10579.0	10554.3	10517.9	10524.4	10473.6	10398.2	10304.5
5°	10422.9	10417.7	10456.7	10478.8	10497.0	10482.7	10472.3	10485.3	10411.2	10307.1	10144.5
7.5°	10002.6	9945.4	9994.8	10069.0	10139.3	10192.6	10262.9	10272.0	10225.1	10115.8	9902.5
10°	9405.4	9350.8	9423.7	9539.5	9680.0	9807.5	9949.3	9975.3	9984.4	9885.5	9626.6
12.5°	8786.1	8744.5	8817.4	8980.0	9212.9	9409.4	9635.7	9674.8	9755.4	9689.1	9371.6
15°	8231.9	8216.3	8304.7	8464.8	8732.8	9033.3	9359.9	9431.5	9568.1	9546.0	9172.6
17.5°	7753.1	7749.2	7816.8	7984.7	8281.3	8661.2	9085.4	9206.4	9409.4	9435.4	9008.6
20°	7396.6	7388.8	7435.6	7559.2	7865.0	8295.6	8788.7	8955.3	9248.0	9339.1	8839.5
22.5°	7205.3	7204.0	7205.3	7263.9	7513.7	7914.4	8499.9	8702.9	9090.6	9262.3	8652.1
25°	7172.8	7168.9	7140.3	7133.8	7275.6	7595.7	8213.7	8437.4	8941.0	9209.0	8473.9
27.5°	7257.4	7262.6	7224.9	7163.7	7192.3	7386.2	7965.2	8204.6	8821.3	9198.6	8350.3
30°	7433.0	7430.4	7397.9	7334.1	7278.2	7308.1	7788.2	8027.6	8740.6	9244.1	8265.7
32.5°	7626.9	7641.2	7634.7	7599.6	7516.3	7396.6	7734.9	7969.1	8717.2	9353.4	8229.3
35°	7859.8	7875.4	7922.2	7949.5	7852.0	7659.4	7849.4	8052.3	8784.8	9559.0	8287.8
37.5°	8081.0	8121.3	8252.7	8368.5	8285.2	8070.5	8153.8	8298.2	8994.3	9882.9	8445.3
40°	8336.0	8371.1	8585.8	8831.7	8818.7	8596.2	8644.3	8740.6	9363.8	10347.4	8730.2
42.5°	8587.1	8657.3	8968.3	9317.0	9417.2	9220.7	9297.5	9348.2	9884.2	10962.8	9227.2
45°	8921.4	8996.9	9428.9	9849.1	10083.3	9972.7	10095.0	10114.5	10538.7	11800.7	9949.3
47.5°	9427.6	9513.4	10017.0	10458.0	10815.8	10827.5	11029.2	11021.4	11355.8	12759.6	10858.7
50°	10216.0	10339.6	10752.1	11164.5	11599.1	11841.1	12110.4	12072.6	12335.5	13781.0	11906.1
52.5°	11249.1	11306.3	11612.1	11916.5	12456.5	12999.0	13385.4	13351.6	13446.6	14830.9	13095.3
55°	12319.8	12362.8	12489.0	12655.5	13381.5	14266.3	15083.3	15030.0	14789.3	15921.2	14270.2
57.5°	13282.6	13369.8	13457.0	13525.9	14313.1	15590.7	16820.3	16824.2	16246.5	17097.4	15484.1
60°	13432.3	13509.0	14085.4	14629.2	15906.9	17357.6	18679.5	18640.5	17754.4	18373.7	16837.2
62.5°	11873.6	12046.6	13009.4	14456.2	17442.2	20589.5	21051.3	21003.2	19557.7	19946.7	18412.8
65°	8509.0	8705.5	9867.3	12041.4	16698.0	24150.5	25331.9	24683.9	22016.7	21881.4	20257.7
67.5°	4908.9	4955.8	5459.3	7205.3	12714.1	24336.5	31861.9	30955.1	25835.4	24076.3	21160.6
70°	3630.0	3628.7	3748.4	4434.1	6880.1	19862.2	34967.6	35780.8	29855.7	24798.4	19884.3
71°	3282.6	3286.5	3420.5	4035.9	5448.9	16625.1	34308.0	36087.8	30914.8	24441.9	18960.5
72.5°	2807.7	2820.7	3006.8	3619.6	4583.7	11465.0	31466.4	34245.5	31417.0	23562.4	17515.0
75°	2129.9	2159.8	2417.4	3051.0	4189.5	5814.5	23094.0	27345.9	27909.3	20791.1	13014.6
77.5°	1519.7	1553.5	1844.9	2565.7	3982.6	4382.0	15465.8	19946.7	20538.7	13324.3	5870.4
80°	960.2	1000.5	1220.4	2041.4	3741.9	4160.8	9719.0	13407.5	11199.6	4263.6	1493.6
82.5°	563.4	594.6	757.2	1333.6	3056.2	4007.3	5718.2	7431.7	4358.6	1288.1	679.2
85°	326.6	340.9	472.3	849.6	2219.6	3782.2	4201.2	4154.3	1891.8	629.7	321.4
87.5°	152.2	169.1	279.7	443.7	1232.1	2741.4	3320.3	2868.9	1176.2	295.3	150.9
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°	10348.7	10348.7	10348.7	10348.7	10348.7	10348.7	10348.7	10348.7	10348.7	10348.7	10348.7
2.5°	10258.9	10236.8	10144.5	10062.5	9976.6	9864.7	9741.1	9725.5	9650.0	9664.4	9638.3
5°	10056.0	10000.0	9777.6	9575.9	9337.8	9124.4	8892.8	8786.1	8632.6	8622.2	8583.2
7.5°	9765.8	9661.8	9317.0	8934.5	8551.9	8187.6	7827.2	7590.5	7348.5	7245.7	7236.6
10°	9439.3	9262.3	8754.9	8188.9	7637.3	7105.2	6589.9	6208.7	5865.2	5702.6	5696.1
12.5°	9129.6	8868.1	8172.0	7401.8	6647.2	5957.6	5251.1	4750.2	4319.6	4175.1	4114.0
15°	8866.8	8498.6	7604.8	6619.9	5703.9	4746.3	3942.2	3415.3	3017.2	2879.3	2853.3
17.5°	8611.8	8138.2	7023.2	5830.1	4722.9	3670.3	2865.0	2473.3	2261.3	2205.3	2204.0
20°	8358.1	7767.4	6415.6	5022.1	3774.4	2745.3	2202.7	2027.1	1955.5	1949.0	1938.6
22.5°	8070.5	7374.5	5776.8	4211.6	2945.6	2158.5	1872.2	1802.0	1792.9	1816.3	1816.3
25°	7801.2	6984.2	5128.8	3417.9	2291.2	1800.7	1671.9	1657.6	1682.3	1723.9	1727.8
27.5°	7550.1	6608.1	4496.5	2712.7	1835.8	1586.0	1532.7	1549.6	1593.8	1642.0	1643.3
30°	7343.2	6253.0	3882.4	2137.7	1550.9	1426.0	1416.9	1450.7	1498.8	1536.6	1545.7
32.5°	7183.2	5949.8	3289.1	1718.7	1364.8	1306.3	1314.1	1342.7	1372.6	1393.4	1407.8
35°	7109.1	5689.6	2741.4	1449.4	1246.4	1213.9	1224.3	1239.9	1252.9	1268.5	1280.3
37.5°	7122.1	5487.9	2252.2	1281.6	1167.1	1150.1	1150.1	1150.1	1150.1	1158.0	1159.3
40°	7243.1	5372.1	1854.0	1174.9	1113.7	1095.5	1081.2	1068.2	1057.8	1063.0	1060.4
42.5°	7552.7	5361.7	1562.6	1107.2	1070.8	1040.9	1012.2	994.0	981.0	986.2	988.8
45°	8078.4	5491.8	1366.1	1059.1	1030.4	984.9	948.5	929.0	919.9	936.8	939.4
47.5°	8758.8	5775.5	1246.4	1023.9	992.7	932.9	893.8	875.6	878.2	902.9	909.4
50°	9635.7	6236.0	1189.2	1001.8	966.7	888.6	848.3	832.7	840.5	875.6	883.4
52.5°	10598.5	6899.6	1195.7	995.3	949.8	856.1	813.2	795.0	808.0	840.5	847.0
55°	11709.6	7697.1	1303.7	1004.4	925.1	835.3	784.5	753.3	763.7	793.7	798.9
57.5°	12944.4	8610.5	1521.0	1001.8	893.8	815.8	754.6	707.8	715.6	733.8	739.0
60°	14229.8	9713.8	1857.9	1009.6	879.5	792.4	714.3	655.7	653.1	668.8	671.4
62.5°	15772.9	10990.2	2243.0	1014.8	888.6	762.4	660.9	603.7	595.9	599.8	602.4
65°	17362.8	11913.9	2098.6	994.0	917.3	737.7	614.1	553.0	538.6	536.0	537.3
67.5°	17412.2	10923.8	1471.5	952.4	929.0	724.7	579.0	510.0	486.6	477.5	476.2
70°	15615.5	8874.6	1146.2	908.1	882.1	703.9	546.5	474.9	439.8	425.5	424.1
71°	14738.5	8169.4	1086.4	886.0	847.0	683.1	532.1	459.3	422.8	407.2	404.6
72.5°	13363.3	7323.7	1013.5	850.9	779.3	629.7	504.8	437.2	399.4	381.2	377.3
75°	9590.2	4789.2	870.4	758.5	645.3	502.2	442.4	392.9	360.4	338.3	335.7
77.5°	3695.0	1906.1	658.3	631.0	494.4	392.9	364.3	339.6	316.2	294.0	292.7
80°	1142.3	852.2	480.1	474.9	357.8	292.7	283.6	277.1	268.0	244.6	239.4
82.5°	610.2	489.2	330.5	307.1	234.2	195.2	205.6	208.2	209.5	184.8	182.2
85°	291.4	258.9	186.1	174.3	136.6	109.3	126.2	136.6	137.9	113.2	105.4
87.5°	139.2	135.3	87.2	66.4	50.7	36.4	44.2	54.6	59.8	42.9	37.7
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)