

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: P319631

Luminaire Tested: **GAN-SA7A-730-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319631
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-SA7A-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 30021 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

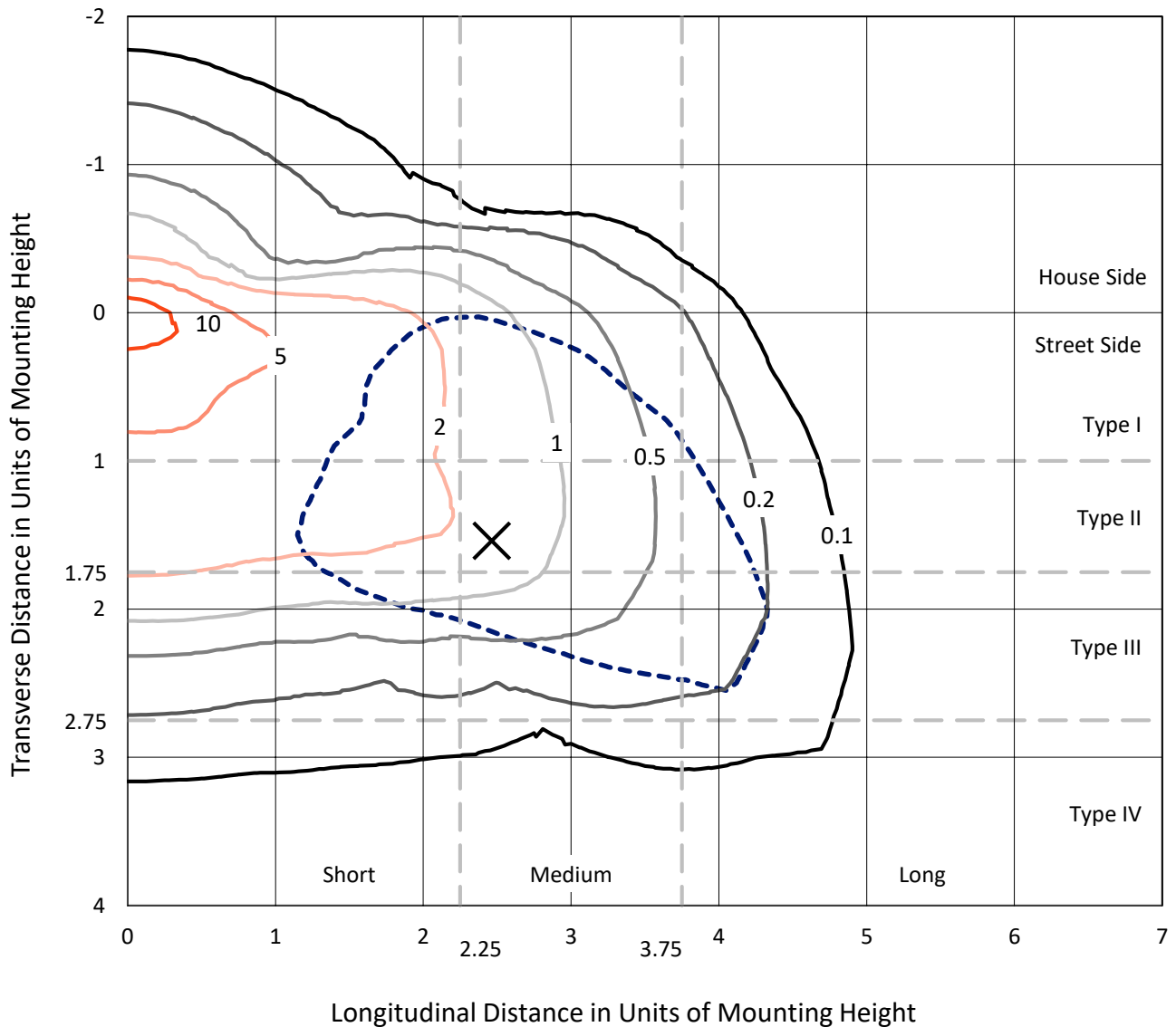
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

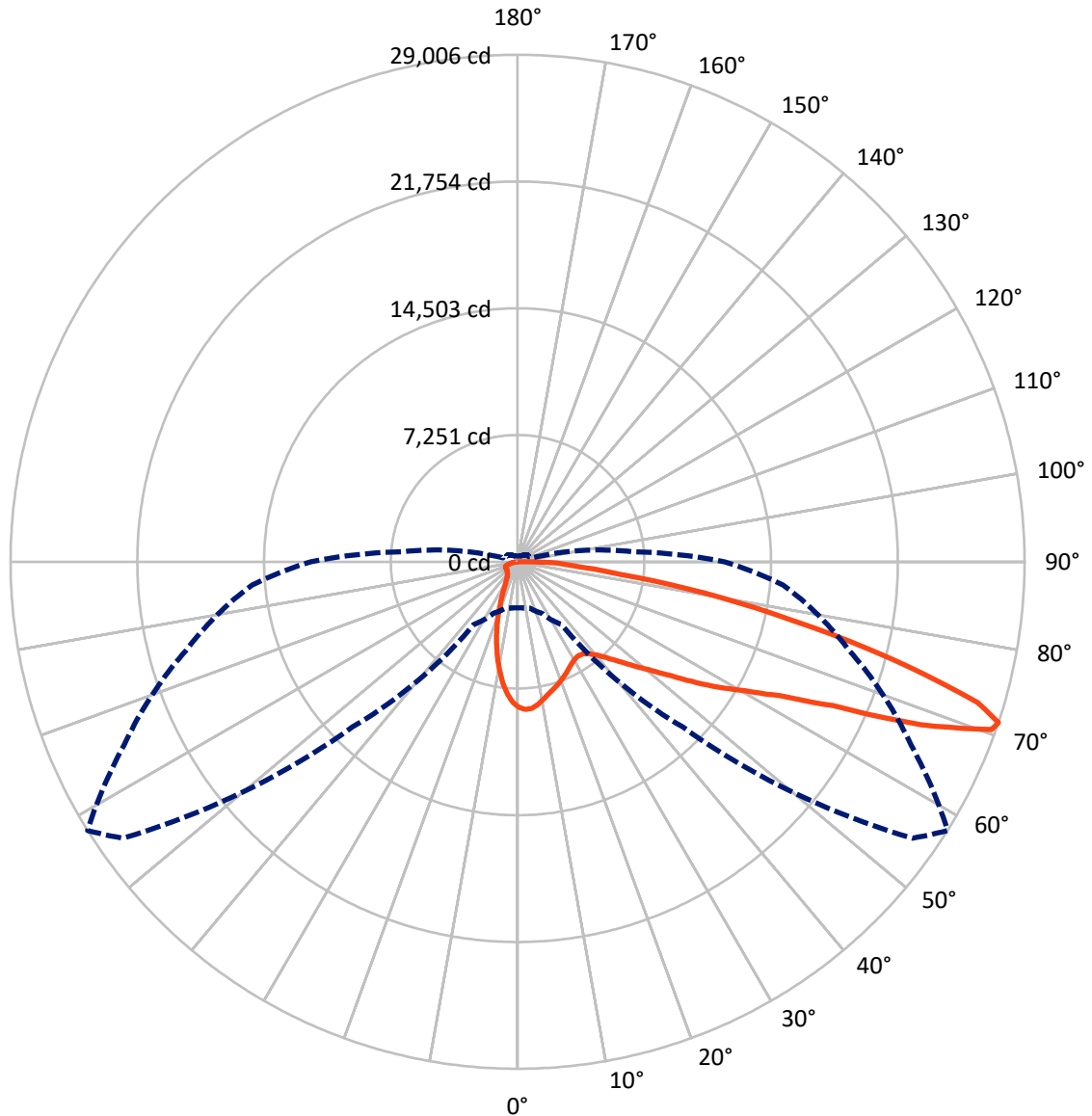
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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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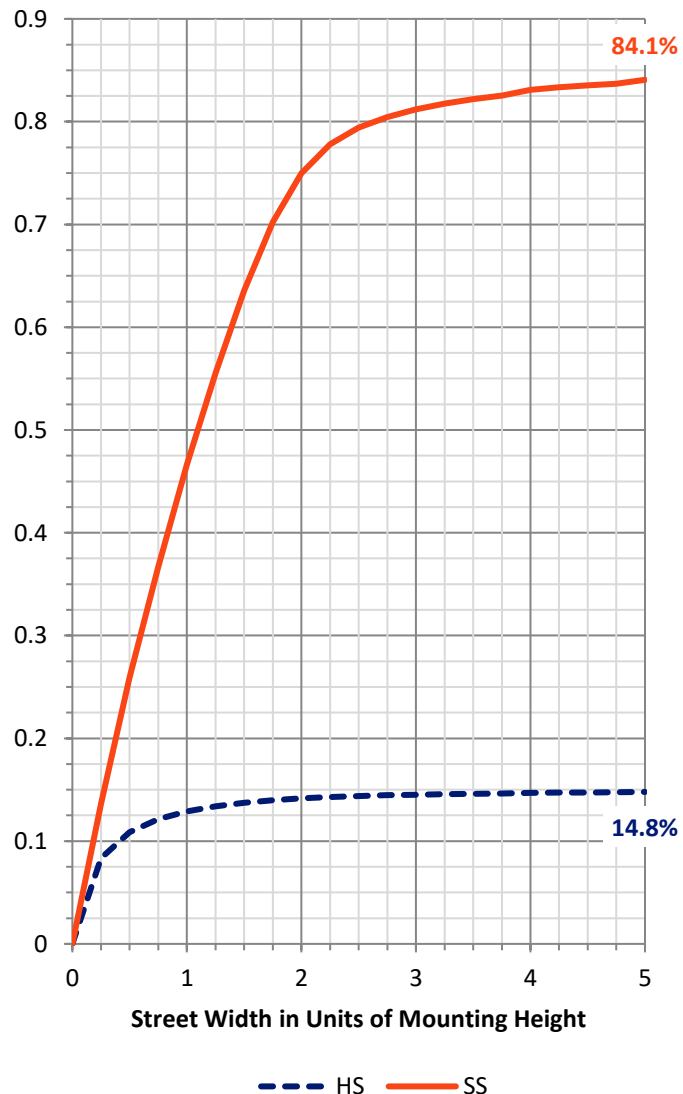
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4488.3	0.0	4488.3
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	25532.7	0.0	25532.7
	% Fixture	85.0	0.0	85.0
Total	Lumens	30021.0	0.0	30021.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	717.6	2.4
10°-20°	1595.6	5.3
20°-30°	2027.9	6.8
30°-40°	2583.1	8.6
40°-50°	3663.0	12.2
50°-60°	5668.6	18.9
60°-70°	7717.0	25.7
70°-80°	5148.2	17.1
80°-90°	900.1	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°	30021.0	100.0
0°-180°	30021.0	100.0

Coefficient of Utilization

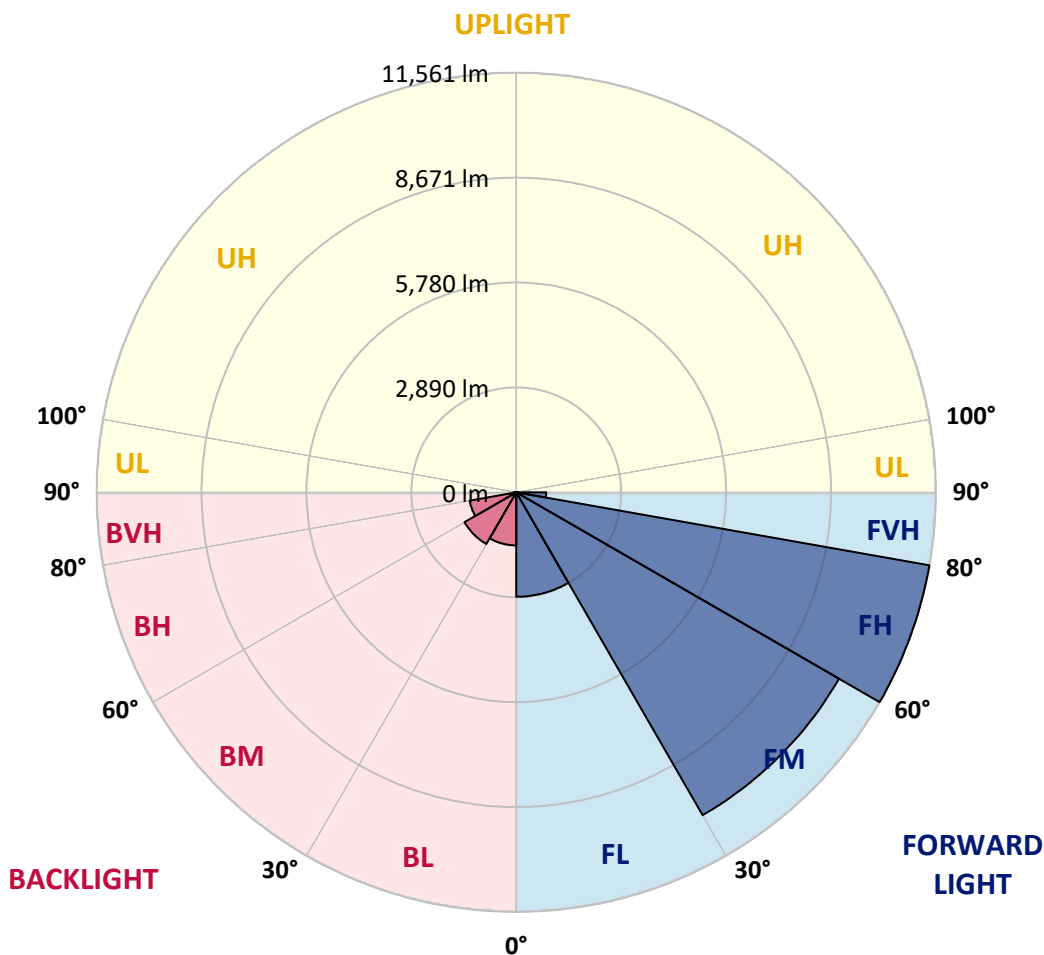


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2878.0	9.6			
FM (30°-60°)	10268.6	34.2			
FH (60°-80°)	11560.7	38.5			G4/12000
FVH (80°-90°)	825.3	2.7			G5
BL (0°-30°)	1463.1	4.9	B3/2500		
BM (30°-60°)	1646.0	5.5	B2/2500		
BH (60°-80°)	1304.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	74.8	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°	8317.8	8317.8	8317.8	8317.8	8317.8	8317.8	8317.8	8317.8	8317.8	8317.8	8317.8
2.5°	8538.5	8527.0	8531.2	8522.8	8502.9	8483.1	8453.8	8459.0	8418.2	8357.6	8282.3
5°	8377.4	8373.2	8404.6	8422.4	8437.0	8425.5	8417.2	8427.6	8368.0	8284.4	8153.6
7.5°	8039.7	7993.6	8033.4	8093.0	8149.5	8192.3	8248.8	8256.1	8218.5	8130.6	7959.1
10°	7559.7	7515.7	7574.3	7667.4	7780.3	7882.8	7996.8	8017.7	8025.0	7945.5	7737.4
12.5°	7061.9	7028.4	7087.0	7217.7	7404.9	7562.8	7744.8	7776.1	7841.0	7787.6	7532.5
15°	6616.4	6603.9	6675.0	6803.6	7019.0	7260.6	7523.1	7580.6	7690.4	7672.6	7372.5
17.5°	6231.6	6228.4	6282.8	6417.7	6656.1	6961.5	7302.4	7399.7	7562.8	7583.7	7240.7
20°	5945.0	5938.8	5976.4	6075.8	6321.5	6667.6	7064.0	7197.8	7433.1	7506.3	7104.8
22.5°	5791.3	5790.3	5791.3	5838.4	6039.2	6361.2	6831.8	6995.0	7306.6	7444.6	6954.2
25°	5765.2	5762.0	5739.0	5733.8	5847.8	6105.0	6601.8	6781.6	7186.3	7401.8	6810.9
27.5°	5833.1	5837.3	5807.0	5757.8	5780.9	5936.7	6402.0	6594.4	7090.1	7393.4	6711.6
30°	5974.3	5972.2	5946.1	5894.8	5849.9	5873.9	6259.8	6452.2	7025.3	7430.0	6643.6
32.5°	6130.1	6141.6	6136.4	6108.2	6041.2	5945.0	6216.9	6405.2	7006.5	7517.8	6614.3
35°	6317.3	6329.9	6367.5	6389.5	6311.0	6156.3	6309.0	6472.1	7060.8	7683.1	6661.4
37.5°	6495.1	6527.5	6633.1	6726.2	6659.3	6486.7	6553.7	6669.7	7229.2	7943.4	6787.9
40°	6700.1	6728.3	6900.8	7098.5	7088.0	6909.2	6947.9	7025.3	7526.2	8316.8	7016.9
42.5°	6901.9	6958.4	7208.3	7488.6	7569.1	7411.2	7472.9	7513.6	7944.5	8811.4	7416.4
45°	7170.6	7231.3	7578.5	7916.3	8104.5	8015.6	8113.9	8129.6	8470.5	9484.9	7996.8
47.5°	7577.4	7646.5	8051.2	8405.7	8693.2	8702.7	8864.7	8858.5	9127.2	10255.6	8727.8
50°	8211.2	8310.5	8642.0	8973.5	9322.8	9517.3	9733.8	9703.4	9914.7	11076.5	9569.6
52.5°	9041.5	9087.5	9333.2	9577.9	10011.9	10448.0	10758.6	10731.4	10807.7	11920.4	10525.4
55°	9902.1	9936.6	10038.1	10171.9	10755.4	11466.6	12123.3	12080.4	11886.9	12796.7	11469.7
57.5°	10676.0	10746.0	10816.1	10871.5	11504.2	12531.1	13519.3	13522.5	13058.2	13742.1	12445.4
60°	10796.2	10857.9	11321.2	11758.3	12785.2	13951.2	15013.7	14982.3	14270.2	14768.0	13532.9
62.5°	9543.4	9682.5	10456.4	11619.2	14019.2	16548.9	16920.1	16881.4	15719.6	16032.3	14799.3
65°	6839.1	6997.1	7930.9	9678.3	13421.0	19411.0	20360.6	19839.8	17696.0	17587.3	16282.2
67.5°	3945.6	3983.2	4387.9	5791.3	10219.0	19560.6	25609.2	24880.3	20765.3	19351.4	17007.9
70°	2917.6	2916.6	3012.8	3563.9	5529.9	15964.3	28105.3	28758.9	23996.6	19931.8	15982.1
71°	2638.4	2641.5	2749.3	3243.9	4379.6	13362.5	27575.1	29005.7	24847.9	19645.3	15239.6
72.5°	2256.7	2267.2	2416.7	2909.3	3684.1	9215.1	25291.2	27524.9	25251.5	18938.4	14077.8
75°	1711.9	1735.9	1943.0	2452.3	3367.3	4673.4	18561.9	21979.4	22432.2	16710.9	10460.5
77.5°	1221.4	1248.6	1482.9	2062.2	3201.0	3522.1	12430.7	16032.3	16508.1	10709.4	4718.4
80°	771.8	804.2	980.9	1640.8	3007.6	3344.3	7811.7	10776.4	9001.7	3426.9	1200.5
82.5°	452.8	477.9	608.6	1071.9	2456.4	3220.9	4596.0	5973.3	3503.2	1035.3	545.9
85°	262.5	274.0	379.6	682.9	1784.0	3040.0	3376.7	3339.1	1520.5	506.1	258.3
87.5°	122.4	135.9	224.8	356.6	990.3	2203.4	2668.7	2305.9	945.3	237.4	121.3
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°	8317.8	8317.8	8317.8	8317.8	8317.8	8317.8	8317.8	8317.8	8317.8	8317.8	8317.8
2.5°	8245.7	8227.9	8153.6	8087.8	8018.7	7928.8	7829.5	7816.9	7756.3	7767.8	7746.8
5°	8082.5	8037.6	7858.7	7696.7	7505.3	7333.8	7147.6	7061.9	6938.5	6930.1	6898.8
7.5°	7849.3	7765.7	7488.6	7181.1	6873.7	6580.8	6291.2	6100.9	5906.3	5823.7	5816.4
10°	7586.9	7444.6	7036.8	6581.9	6138.5	5710.8	5296.7	4990.3	4714.2	4583.5	4578.3
12.5°	7338.0	7127.8	6568.3	5949.2	5342.7	4788.4	4220.6	3818.0	3471.9	3355.8	3306.6
15°	7126.7	6830.8	6112.4	5320.7	4584.5	3814.9	3168.6	2745.1	2425.1	2314.2	2293.3
17.5°	6921.8	6541.1	5644.9	4686.0	3796.0	2950.0	2302.7	1988.0	1817.5	1772.5	1771.5
20°	6717.8	6243.1	5156.5	4036.6	3033.7	2206.5	1770.4	1629.3	1571.7	1566.5	1558.2
22.5°	6486.7	5927.3	4643.1	3385.1	2367.6	1734.9	1504.8	1448.4	1441.0	1459.9	1459.9
25°	6270.3	5613.5	4122.3	2747.2	1841.5	1447.3	1343.8	1332.3	1352.1	1385.6	1388.7
27.5°	6068.4	5311.3	3614.1	2180.4	1475.5	1274.8	1231.9	1245.5	1281.0	1319.7	1320.8
30°	5902.2	5025.8	3120.5	1718.2	1246.5	1146.1	1138.8	1166.0	1204.7	1235.0	1242.3
32.5°	5773.5	4782.2	2643.6	1381.4	1097.0	1049.9	1056.2	1079.2	1103.3	1120.0	1131.5
35°	5713.9	4573.0	2203.4	1165.0	1001.8	975.7	984.0	996.6	1007.0	1019.6	1029.0
37.5°	5724.4	4410.9	1810.2	1030.1	938.0	924.4	924.4	924.4	924.4	930.7	931.8
40°	5821.6	4317.9	1490.2	944.3	895.2	880.5	869.0	858.6	850.2	854.4	852.3
42.5°	6070.5	4309.5	1255.9	889.9	860.6	836.6	813.6	798.9	788.5	792.7	794.8
45°	6493.0	4414.1	1098.0	851.2	828.2	791.6	762.3	746.7	739.3	752.9	755.0
47.5°	7039.9	4642.0	1001.8	823.0	797.9	749.8	718.4	703.8	705.9	725.7	731.0
50°	7744.8	5012.2	955.8	805.2	777.0	714.2	681.8	669.3	675.5	703.8	710.1
52.5°	8518.6	5545.6	961.0	800.0	763.4	688.1	653.6	638.9	649.4	675.5	680.8
55°	9411.7	6186.6	1047.8	807.3	743.5	671.4	630.6	605.5	613.8	637.9	642.1
57.5°	10404.1	6920.7	1222.5	805.2	718.4	655.7	606.5	568.9	575.2	589.8	594.0
60°	11437.3	7807.5	1493.3	811.5	706.9	636.9	574.1	527.1	525.0	537.5	539.6
62.5°	12677.5	8833.4	1802.9	815.7	714.2	612.8	531.2	485.2	478.9	482.1	484.2
65°	13955.4	9575.9	1686.8	798.9	737.2	592.9	493.6	444.4	432.9	430.8	431.9
67.5°	13995.2	8780.0	1182.7	765.5	746.7	582.5	465.4	409.9	391.1	383.8	382.7
70°	12551.0	7133.0	921.3	729.9	709.0	565.7	439.2	381.7	353.5	342.0	340.9
71°	11846.2	6566.2	873.2	712.1	680.8	549.0	427.7	369.1	339.9	327.3	325.2
72.5°	10740.8	5886.5	814.6	683.9	626.4	506.1	405.7	351.4	321.0	306.4	303.3
75°	7708.2	3849.4	699.6	609.7	518.7	403.7	355.6	315.8	289.7	271.9	269.8
77.5°	2969.9	1532.0	529.1	507.2	397.4	315.8	292.8	272.9	254.1	236.3	235.3
80°	918.2	685.0	385.9	381.7	287.6	235.3	228.0	222.7	215.4	196.6	192.4
82.5°	490.5	393.2	265.6	246.8	188.2	156.9	165.2	167.3	168.4	148.5	146.4
85°	234.2	208.1	149.5	140.1	109.8	87.8	101.4	109.8	110.8	91.0	84.7
87.5°	111.9	108.8	70.1	53.3	40.8	29.3	35.6	43.9	48.1	34.5	30.3
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)