

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: P318373

Luminaire Tested: **GAN-SA9C-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57598 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

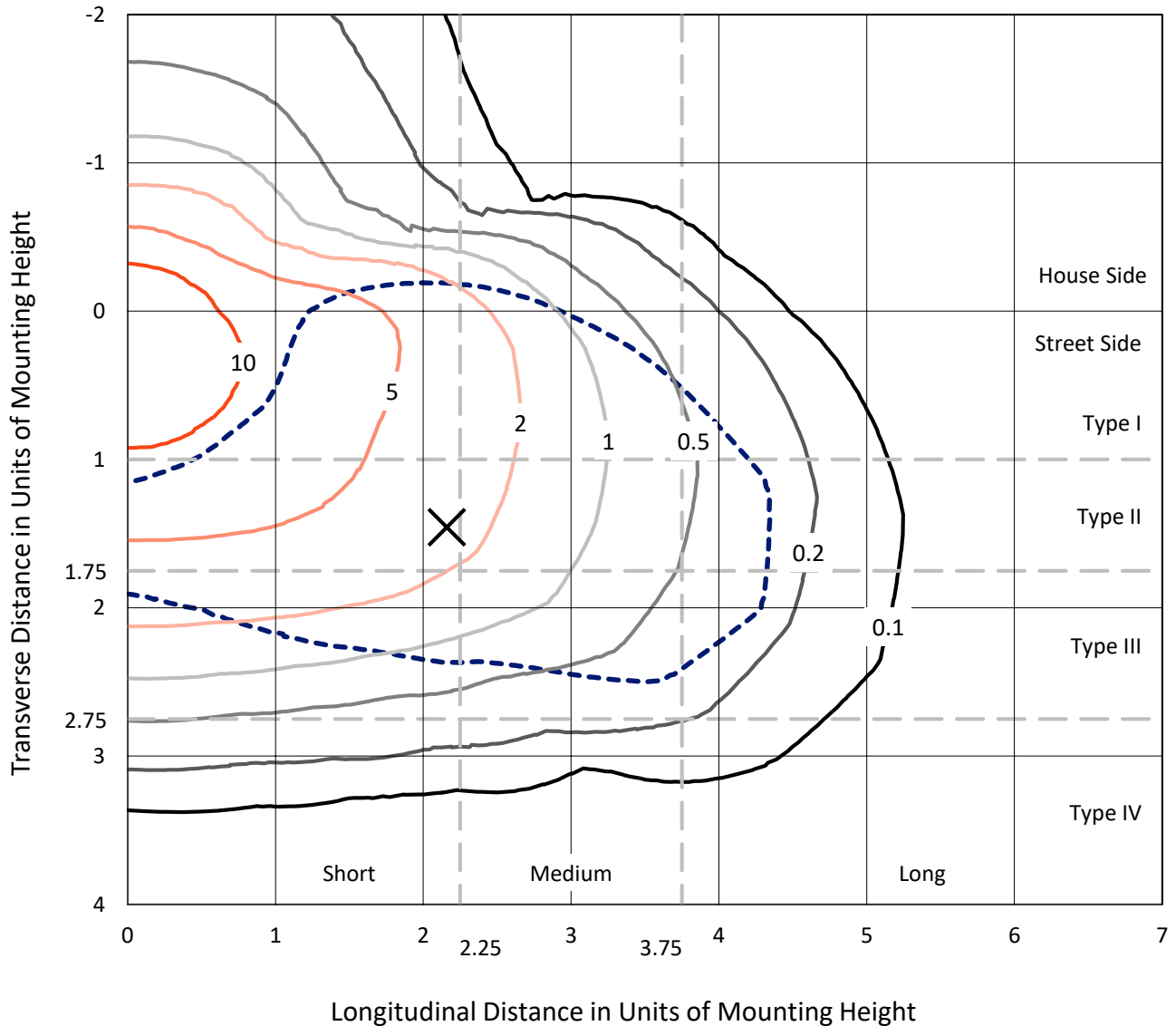
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

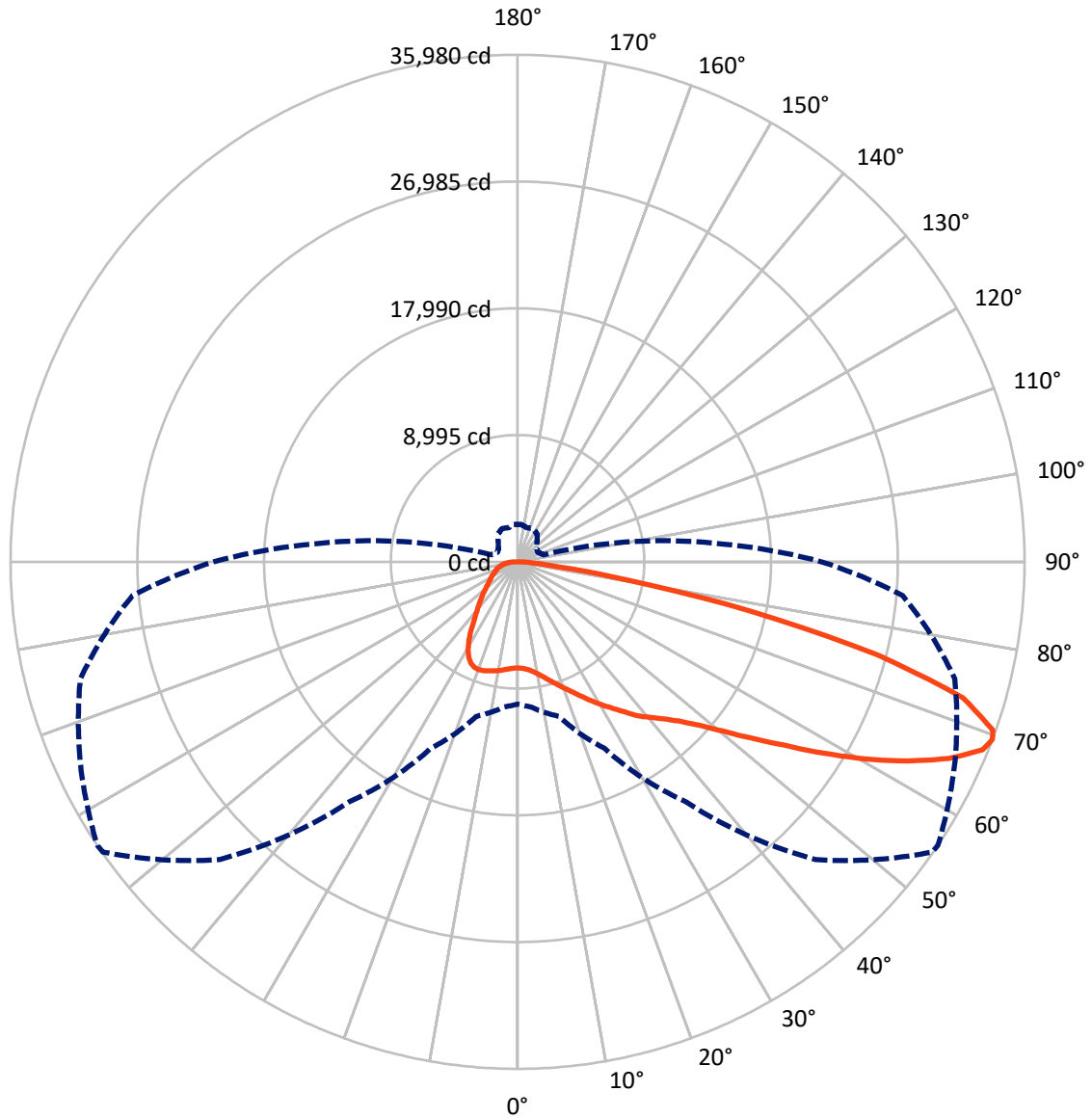
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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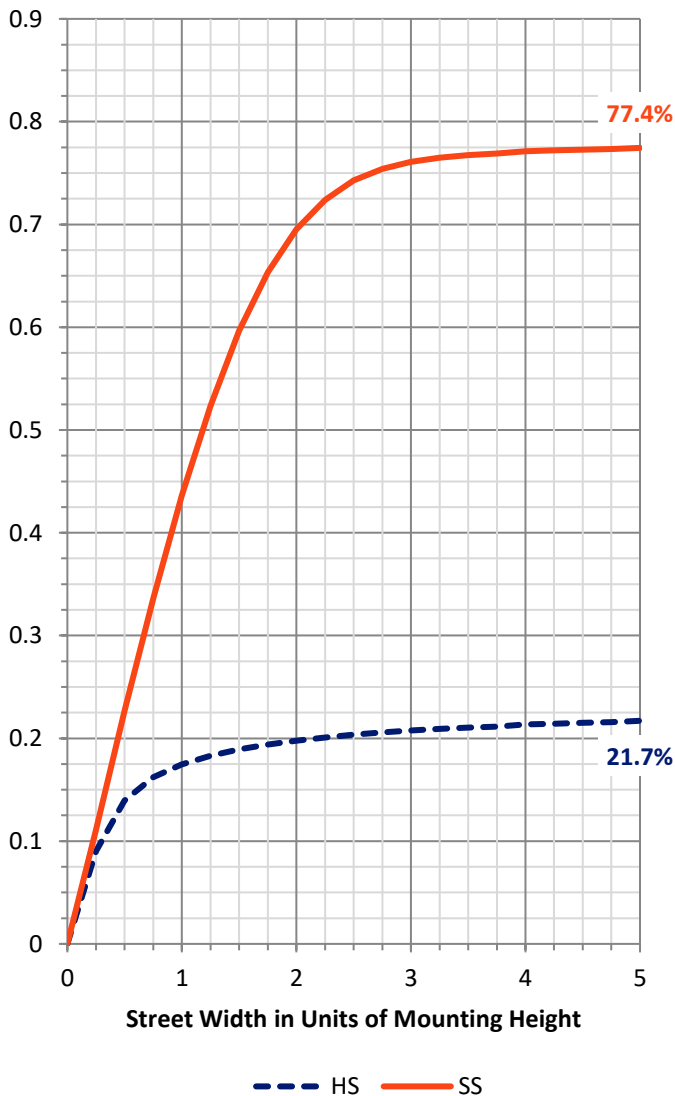
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12827.0	0.0	12827.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	44771.0	0.0	44771.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	57598.0	0.0	57598.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	739.6	1.3
10°-20°	2378.2	4.1
20°-30°	4151.4	7.2
30°-40°	5963.3	10.4
40°-50°	8252.9	14.3
50°-60°	12091.6	21.0
60°-70°	14742.0	25.6
70°-80°	8150.3	14.2
80°-90°	1128.8	2.0
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°	57598.0	100.0
0°-180°	57598.0	100.0

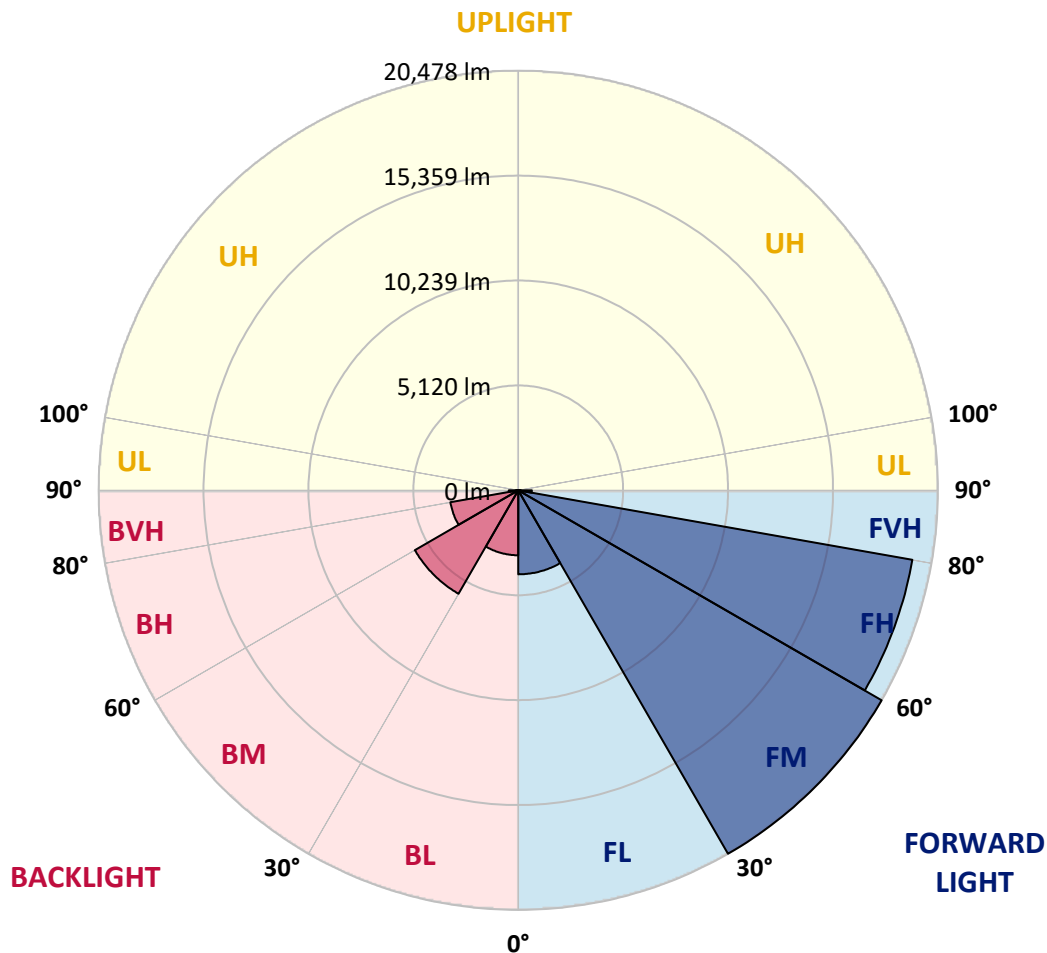


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4099.3	7.1			
FM (30°-60°)	20478.2	35.6			
FH (60°-80°)	19528.6	33.9			G5
FVH (80°-90°)	664.9	1.2			G4/750
BL (0°-30°)	3169.8	5.5	B4/5000		
BM (30°-60°)	5829.6	10.1	B4/8500		
BH (60°-80°)	3363.6	5.8	B4/5000		G4/5000
BVH (80°-90°)	463.9	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7530.1	7530.1	7530.1	7530.1	7530.1	7530.1	7530.1	7530.1	7530.1	7530.1	7530.1
2.5°	7577.7	7585.6	7579.7	7595.6	7577.7	7589.6	7579.7	7579.7	7573.7	7555.9	7536.0
5°	7696.7	7712.6	7702.7	7718.6	7696.7	7700.7	7682.9	7682.9	7665.0	7627.3	7587.6
7.5°	7883.3	7901.1	7893.2	7909.1	7879.3	7879.3	7855.5	7853.5	7817.8	7756.3	7710.6
10°	8105.5	8129.3	8121.4	8145.2	8121.4	8129.3	8105.5	8105.5	8057.9	7970.6	7913.0
12.5°	8428.9	8458.7	8436.9	8434.9	8424.9	8440.8	8421.0	8417.0	8373.4	8254.3	8174.9
15°	8861.5	8893.2	8847.6	8843.6	8788.1	8782.1	8782.1	8776.2	8748.4	8605.5	8474.6
17.5°	9359.5	9369.4	9329.7	9266.3	9194.8	9149.2	9143.2	9159.1	9159.1	8992.4	8784.1
20°	9847.6	9865.5	9833.7	9762.3	9671.0	9603.6	9555.9	9587.7	9585.7	9387.3	9091.6
22.5°	10379.4	10421.1	10373.4	10282.2	10175.0	10099.6	10016.3	10044.1	10046.0	9802.0	9393.2
25°	11067.9	11030.2	11000.5	10871.5	10718.7	10641.3	10563.9	10591.7	10583.8	10248.4	9704.8
27.5°	11677.1	11685.0	11645.3	11508.4	11331.8	11161.2	11157.2	11175.1	11145.3	10712.7	9998.4
30°	12385.4	12389.4	12333.8	12210.8	12018.4	11798.1	11746.5	11776.3	11712.8	11153.2	10308.0
32.5°	13089.8	13109.7	13048.2	12899.3	12744.6	12476.7	12373.5	12393.4	12234.6	11603.7	10627.4
35°	13706.9	13734.7	13714.8	13615.6	13447.0	13216.8	13093.8	13081.9	12885.5	12155.3	11050.1
37.5°	14335.9	14361.7	14339.9	14256.5	14189.1	13945.0	13879.5	13879.5	13538.3	12718.8	11587.8
40°	14982.8	15022.4	14996.6	14881.6	14824.0	14712.9	14556.2	14518.5	14149.4	13395.4	12464.8
42.5°	15584.0	15635.6	15738.7	15671.3	15554.2	15570.1	15254.6	15234.8	14964.9	14395.4	13566.0
45°	16437.2	16512.6	16687.2	16635.6	16611.8	16524.5	16149.5	16131.6	16028.4	15740.7	14933.2
47.5°	17367.8	17471.0	17786.4	17796.4	18052.3	17887.6	17377.7	17316.2	17340.0	17351.9	16601.9
50°	18225.0	18338.1	18855.9	19100.0	19703.2	19738.9	18923.4	18867.8	18961.1	19234.9	18546.4
52.5°	18909.5	19052.4	19699.2	20453.2	21487.0	21780.7	20826.3	20784.6	20854.0	21326.3	20744.9
55°	19411.5	19566.3	20270.7	21643.7	23294.6	23812.5	23016.8	22977.1	23020.8	23622.0	23135.9
57.5°	19528.6	19566.3	20588.1	22445.4	24820.5	26064.6	25697.5	25618.1	25403.8	25927.7	25774.9
60°	18979.0	19129.8	20326.2	22727.1	26001.1	28284.9	28499.2	28400.0	27798.8	28227.4	28104.3
62.5°	17863.8	18133.7	19348.0	22298.5	26463.4	30098.5	31247.3	31128.3	30092.5	30370.3	29779.0
65°	16042.3	16157.4	17433.3	20820.3	25876.1	31259.2	33697.8	33638.3	32334.7	31900.1	30088.5
67.5°	12784.3	13000.5	14083.9	17730.9	23473.2	31122.3	35592.7	35586.8	33799.0	32467.6	28991.3
69°	10099.6	10323.8	11355.6	14605.8	20770.7	29870.3	35910.2	35979.7	34211.7	32122.4	27423.7
70°	8051.9	8311.8	9020.2	12302.1	18371.8	28219.4	35646.3	35771.3	34132.4	31552.9	25977.3
72.5°	3426.7	3637.1	4141.0	6341.5	11196.9	21072.3	32592.6	33064.9	32293.0	28878.2	21469.1
75°	1496.1	1561.6	1789.8	2585.4	4970.4	11468.7	25532.8	26405.8	27612.2	24409.7	15992.7
77.5°	1095.3	1123.1	1248.1	1517.9	2230.3	4331.5	16419.3	16927.3	19913.5	17762.6	9809.9
80°	847.3	867.1	964.3	1115.1	1456.4	1752.1	7488.4	7924.9	11196.9	9123.4	4085.5
82.5°	674.6	688.5	756.0	821.5	1006.0	1061.6	2486.2	2758.0	4133.1	2519.9	1081.4
85°	627.0	642.9	666.7	599.2	644.9	623.0	1075.4	1125.0	1248.1	990.1	452.4
87.5°	283.7	335.3	660.7	466.3	343.3	273.8	440.5	460.3	517.9	519.9	200.4
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°	7530.1	7530.1	7530.1	7530.1	7530.1	7530.1	7530.1	7530.1	7530.1	7530.1	7530.1
2.5°	7547.9	7542.0	7551.9	7528.1	7557.9	7555.9	7545.9	7549.9	7569.8	7567.8	7569.8
5°	7593.6	7589.6	7601.5	7583.6	7619.4	7631.3	7633.3	7651.1	7672.9	7678.9	7678.9
7.5°	7708.7	7708.7	7714.6	7690.8	7714.6	7712.6	7702.7	7720.6	7742.4	7744.4	7742.4
10°	7907.1	7909.1	7899.1	7837.6	7817.8	7764.2	7714.6	7716.6	7744.4	7766.2	7772.1
12.5°	8157.1	8149.1	8105.5	7992.4	7909.1	7799.9	7748.3	7746.4	7774.1	7792.0	7797.9
15°	8442.8	8421.0	8307.9	8123.3	7976.5	7869.4	7786.0	7766.2	7750.3	7730.5	7732.5
17.5°	8712.7	8663.1	8474.6	8218.6	8063.8	7921.0	7760.2	7631.3	7542.0	7490.4	7474.5
20°	8986.5	8889.3	8617.4	8307.9	8111.4	7851.5	7542.0	7280.1	7117.4	7042.0	7028.1
22.5°	9236.5	9079.7	8750.4	8401.1	8073.7	7617.4	7131.2	6750.3	6524.1	6422.9	6430.8
25°	9480.5	9262.3	8889.3	8466.6	7883.3	7204.7	6559.8	6091.5	5829.6	5716.5	5712.5
27.5°	9694.8	9446.8	9040.1	8413.0	7528.1	6617.3	5883.2	5426.8	5208.5	5111.3	5095.4
30°	9940.9	9679.0	9240.5	8208.7	7008.2	5938.7	5222.4	4901.0	4746.2	4649.0	4631.1
32.5°	10240.5	9994.5	9405.1	7837.6	6343.5	5230.4	4706.5	4482.3	4341.4	4232.3	4212.5
35°	10677.0	10411.1	9446.8	7305.9	5613.3	4670.8	4327.6	4097.4	3906.9	3766.0	3752.1
37.5°	11224.7	10933.0	9351.6	6617.3	4905.0	4307.7	4012.1	3728.3	3480.3	3281.9	3250.1
40°	12014.4	11573.9	9087.7	5823.7	4383.1	4027.9	3704.5	3381.1	3073.5	2841.4	2795.7
42.5°	12962.8	12325.9	8682.9	5033.9	4000.2	3744.2	3398.9	2998.1	2704.5	2539.8	2516.0
45°	14169.2	13107.7	8121.4	4343.4	3623.2	3460.5	3069.6	2700.5	2518.0	2396.9	2377.1
47.5°	15546.3	13984.7	7532.1	3781.9	3303.7	3194.6	2805.7	2567.6	2422.7	2327.5	2309.6
50°	17238.8	14974.8	6907.0	3321.6	2982.3	2875.1	2680.7	2494.2	2379.1	2305.7	2287.8
52.5°	19147.6	16091.9	6456.6	2958.5	2716.4	2639.0	2615.2	2454.5	2361.2	2305.7	2287.8
55°	21203.3	17228.9	5970.5	2652.9	2486.2	2508.0	2571.5	2458.4	2394.9	2327.5	2301.7
57.5°	23260.9	18403.5	5428.8	2394.9	2303.7	2410.8	2541.8	2466.4	2412.8	2347.3	2323.5
60°	24887.9	19147.6	4589.5	2178.7	2158.8	2303.7	2470.3	2406.8	2337.4	2339.4	2335.4
62.5°	25647.9	19107.9	3662.8	1986.2	2014.0	2158.8	2355.3	2313.6	2256.0	2333.4	2339.4
65°	25221.3	18155.5	2851.3	1811.6	1859.2	2008.0	2236.2	2268.0	2287.8	2436.6	2456.5
67.5°	23431.5	16302.3	2208.4	1658.8	1718.3	1904.8	2248.1	2470.3	2496.1	2652.9	2650.9
69°	21580.3	14564.1	1918.7	1579.4	1648.9	1930.6	2402.9	2599.3	2502.1	2668.8	2645.0
70°	20028.6	13189.0	1764.0	1525.9	1617.1	1976.3	2506.1	2597.3	2472.3	2615.2	2575.5
72.5°	15425.2	9488.5	1496.1	1426.6	1510.0	1891.0	2535.8	2539.8	2402.9	2430.7	2363.2
75°	10579.8	5996.3	1305.6	1291.7	1347.3	1704.4	2440.6	2426.7	2222.3	2182.6	2127.1
77.5°	5833.6	3045.8	1109.2	1162.7	1200.4	1510.0	2218.3	2198.5	2029.8	1946.5	1926.7
80°	2250.1	1333.4	936.5	1033.8	1057.6	1307.6	1944.5	1926.7	1785.8	1678.6	1648.9
82.5°	849.2	698.4	773.8	894.9	886.9	1079.4	1646.9	1637.0	1500.1	1343.3	1295.7
85°	392.9	418.7	613.1	738.1	680.6	799.6	1317.5	1335.4	1168.7	982.2	982.2
87.5°	166.7	234.1	434.5	557.6	458.4	539.7	966.3	922.7	847.3	587.3	551.6
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)