

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: P318078

Luminaire Tested: **GAN-SA4B-740-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22622 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

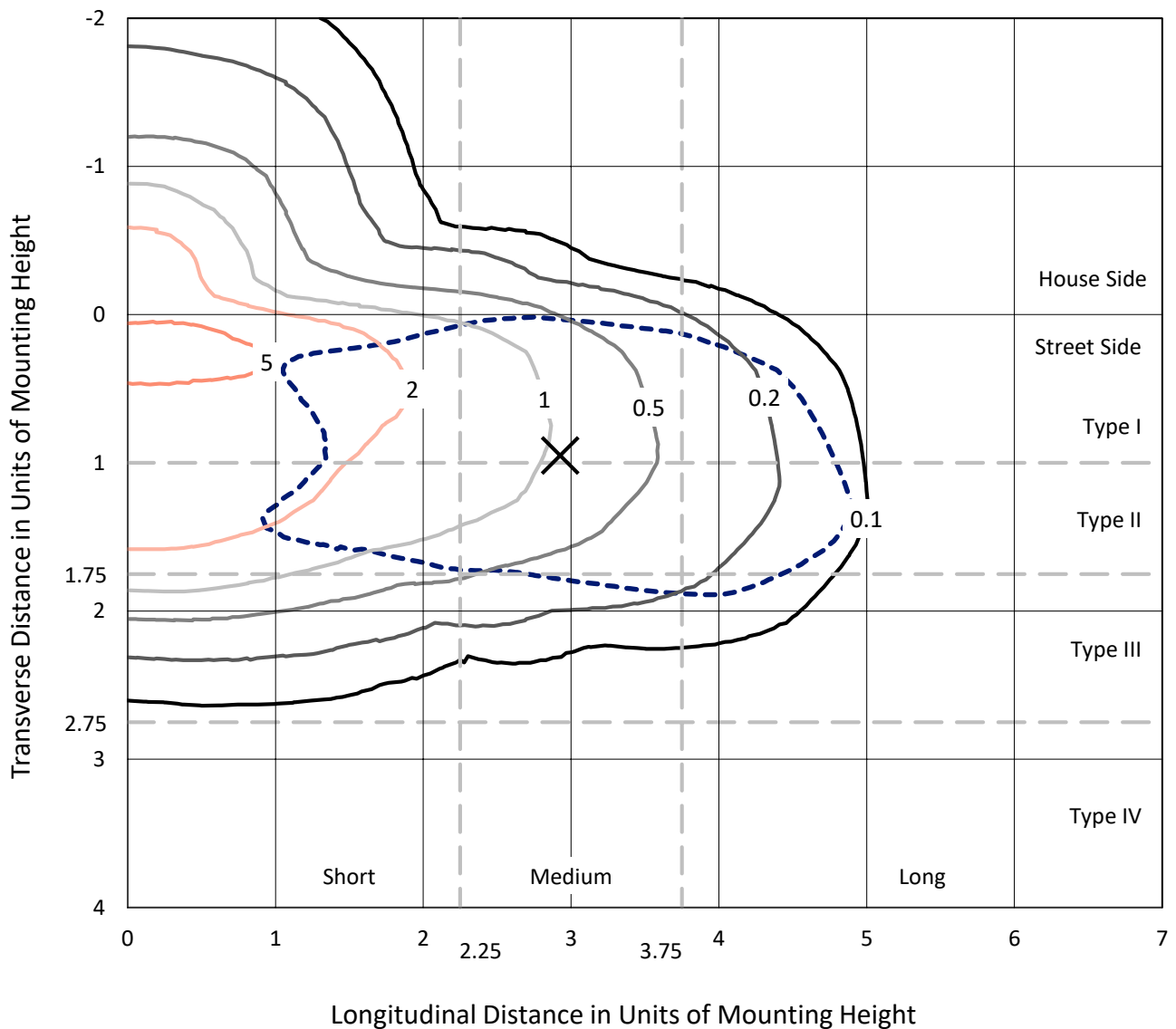
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

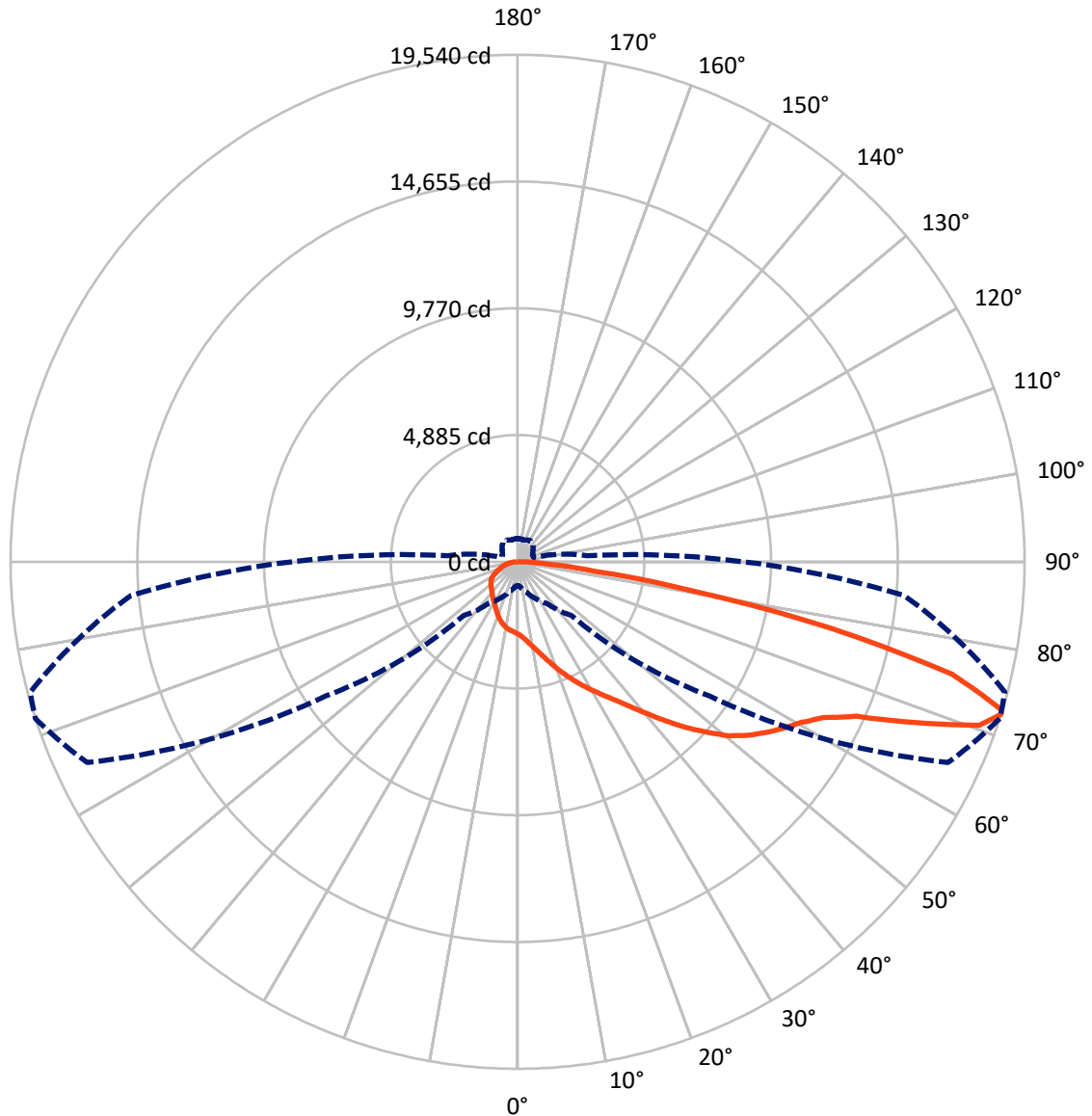
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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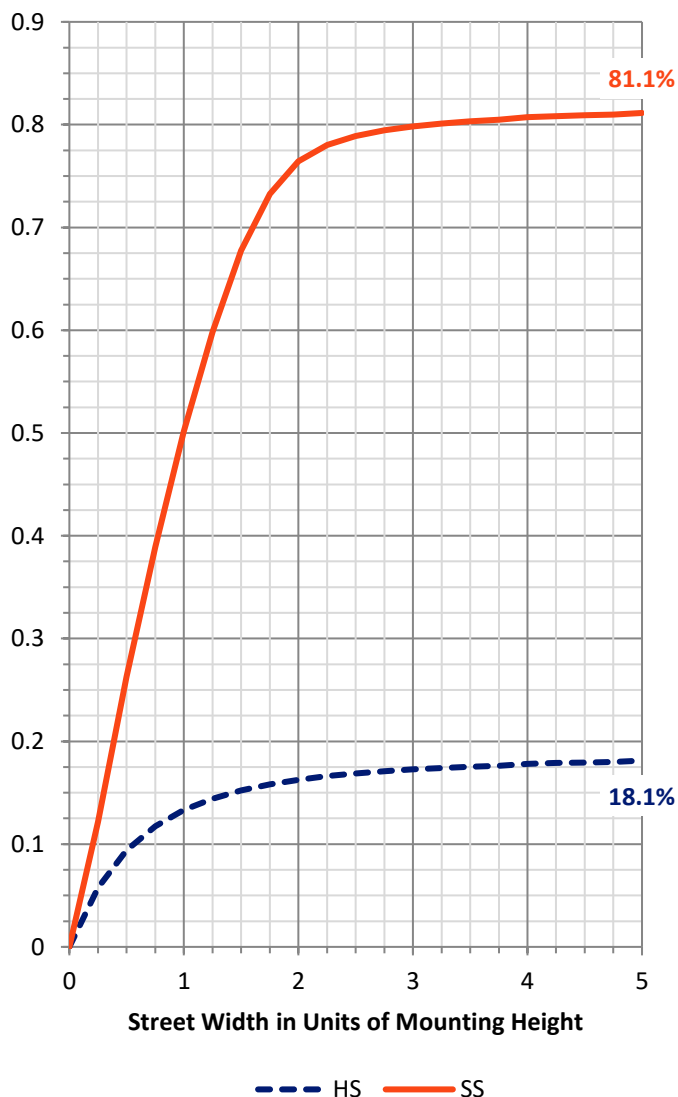
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4196.5	0.0	4196.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	18425.5	0.0	18425.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	22622.0	0.0	22622.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.9	1.2
10°-20°	901.2	4.0
20°-30°	1579.2	7.0
30°-40°	2341.4	10.4
40°-50°	3424.5	15.1
50°-60°	4712.1	20.8
60°-70°	5245.9	23.2
70°-80°	3554.6	15.7
80°-90°	584.2	2.6
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°	22622.0	100.0
0°-180°	22622.0	100.0

Coefficient of Utilization

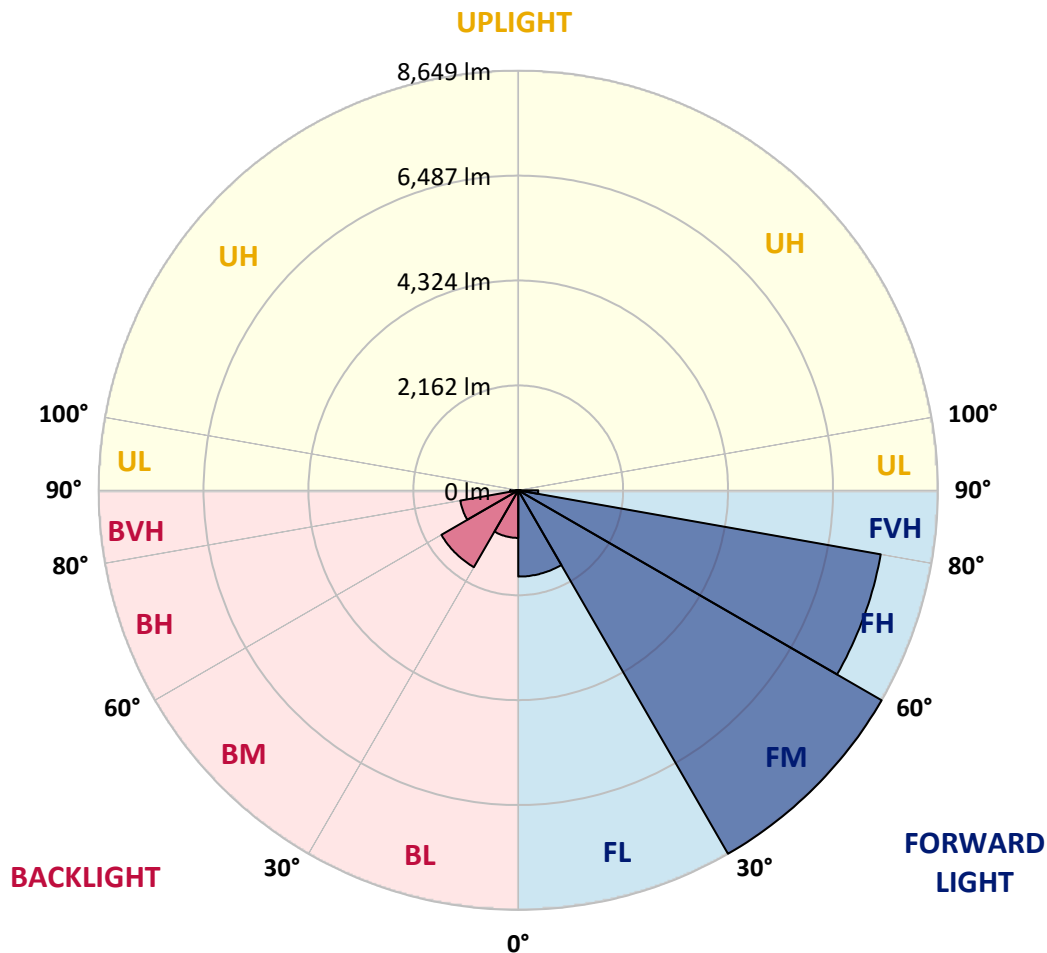


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1778.2	7.9			
FM (30°-60°)	8648.7	38.2			
FH (60°-80°)	7586.5	33.5			G4/12000
FVH (80°-90°)	412.1	1.8			G3/500
BL (0°-30°)	981.0	4.3	B2/1000		
BM (30°-60°)	1829.3	8.1	B2/2500		
BH (60°-80°)	1214.1	5.4	B3/2500		G3/2500
BVH (80°-90°)	172.1	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2783.1	2783.1	2783.1	2783.1	2783.1	2783.1	2783.1	2783.1	2783.1	2783.1	2783.1
2.5°	3074.4	3069.7	3053.4	3053.4	3022.2	2995.7	2945.9	2912.4	2872.7	2858.7	2811.9
5°	3372.0	3373.5	3353.3	3339.2	3293.3	3237.2	3152.3	3075.2	2998.1	2966.9	2871.1
7.5°	3622.0	3618.9	3613.4	3601.7	3558.9	3501.3	3386.8	3272.3	3158.5	3111.8	2946.7
10°	3782.5	3789.5	3794.1	3799.6	3781.7	3740.4	3632.1	3492.7	3343.9	3280.0	3037.0
12.5°	3863.5	3875.9	3897.7	3935.1	3964.7	3960.1	3881.4	3733.4	3556.6	3476.3	3150.0
15°	3911.0	3927.3	3961.6	4028.6	4111.9	4159.5	4138.4	4004.4	3807.4	3708.5	3287.8
17.5°	3940.6	3953.8	4006.8	4096.4	4220.2	4346.4	4401.7	4289.5	4090.9	3978.0	3446.0
20°	3960.8	3971.0	4037.2	4142.3	4302.8	4503.7	4658.0	4629.9	4403.3	4256.8	3611.1
22.5°	4006.0	4014.6	4077.7	4183.6	4361.2	4620.6	4904.9	4946.9	4732.7	4566.8	3787.9
25°	4132.2	4132.2	4185.2	4259.2	4425.8	4721.8	5113.6	5299.8	5069.2	4876.1	3951.5
27.5°	4372.9	4370.5	4390.0	4415.7	4541.9	4824.7	5299.8	5611.4	5418.2	5207.1	4110.4
30°	4658.0	4673.5	4675.9	4663.4	4722.6	4953.2	5471.9	5940.1	5769.5	5542.0	4273.2
32.5°	5024.8	5035.0	5023.3	4982.0	4973.4	5135.4	5641.0	6284.4	6149.6	5891.8	4422.0
35°	5490.6	5471.2	5434.6	5350.4	5270.2	5379.3	5834.1	6628.6	6576.5	6314.7	4626.8
37.5°	5989.9	5990.7	5945.5	5754.7	5644.1	5690.8	6100.5	7018.9	7092.9	6817.9	4889.3
40°	6390.3	6411.3	6439.4	6188.6	6045.2	6109.9	6439.4	7471.4	7703.6	7414.6	5231.3
42.5°	6669.9	6694.1	6773.5	6616.2	6467.4	6587.4	6838.2	7954.4	8389.0	8103.1	5631.6
45°	6965.9	6979.2	7035.2	6967.5	6872.4	7142.7	7287.6	8454.4	9114.2	8836.9	6079.5
47.5°	7277.5	7291.5	7349.1	7304.0	7254.1	7661.5	7756.5	8925.7	9809.0	9643.1	6557.8
50°	7662.3	7671.6	7726.1	7644.4	7659.9	8052.5	8175.6	9358.0	10537.3	10367.5	7037.6
52.5°	8187.3	8189.6	8265.2	8191.2	8117.9	8339.2	8536.2	9765.4	11108.2	11028.0	7517.4
55°	8598.5	8623.5	8871.2	8855.6	8813.5	8599.3	8837.7	10153.3	11617.7	11655.8	8026.8
57.5°	8336.0	8433.4	8935.0	9288.7	9633.0	9246.6	9245.1	10590.3	12091.2	12272.0	8586.9
60°	7300.9	7433.3	8172.5	8956.8	10034.1	10372.9	10091.0	11123.8	12569.5	12882.6	9288.7
62.5°	5214.1	5432.2	6433.9	7686.4	9484.2	11119.1	11812.4	11970.5	13219.9	13589.9	10200.8
65°	2635.9	2801.0	3640.7	5149.5	7577.4	10631.5	13683.4	13824.3	14350.1	14678.8	11605.2
67.5°	1601.5	1663.8	2073.5	2864.1	4645.5	8281.5	14294.0	16914.3	16537.3	16711.8	13607.8
70°	1180.1	1226.0	1481.5	1902.1	2671.7	4859.7	12419.9	19119.5	18871.8	18852.3	15087.8
72°	919.1	952.6	1178.5	1536.8	1953.5	2915.5	9002.0	18305.5	19540.1	19441.9	14952.2
72.5°	871.6	901.2	1106.9	1446.5	1846.1	2642.9	8093.8	17756.4	19491.8	19447.4	14777.0
75°	686.2	707.3	819.4	1118.5	1444.9	1499.4	4435.2	13760.5	17291.3	18010.3	13290.8
77.5°	567.8	571.0	630.1	814.0	1126.3	1060.1	2178.7	9547.3	12381.8	13172.4	9414.9
80°	462.7	466.6	494.6	571.0	852.1	784.4	1034.4	5489.9	6932.4	6941.0	4477.3
82.5°	368.4	369.2	400.4	417.5	612.2	560.8	592.8	2577.5	3029.2	2914.0	1609.3
85°	259.4	253.9	391.0	342.7	400.4	359.9	327.1	1020.4	1252.5	1198.0	504.0
87.5°	86.5	89.6	173.7	222.0	233.7	204.1	145.7	391.0	472.8	468.9	159.7
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°	2783.1	2783.1	2783.1	2783.1	2783.1	2783.1	2783.1	2783.1	2783.1	2783.1	2783.1
2.5°	2797.1	2772.2	2735.6	2695.1	2663.1	2630.4	2606.3	2593.8	2579.8	2568.1	2582.1
5°	2826.7	2780.0	2702.1	2625.8	2569.7	2519.8	2484.0	2465.3	2448.2	2436.5	2438.0
7.5°	2875.0	2799.5	2668.6	2557.2	2479.3	2425.6	2389.0	2376.5	2365.6	2362.5	2366.4
10°	2926.4	2815.0	2624.2	2476.2	2387.4	2343.0	2326.6	2335.2	2343.0	2350.0	2357.8
12.5°	2984.8	2829.1	2559.5	2381.2	2305.6	2288.5	2304.8	2342.2	2369.5	2385.8	2396.0
15°	3061.2	2841.5	2484.8	2286.1	2235.5	2255.0	2310.3	2374.9	2422.5	2452.8	2457.5
17.5°	3131.3	2840.7	2389.0	2190.3	2178.7	2235.5	2318.9	2410.0	2473.9	2516.7	2525.3
20°	3203.7	2819.7	2277.6	2096.9	2121.0	2214.5	2322.8	2432.6	2509.7	2559.5	2571.2
22.5°	3271.5	2783.1	2155.3	2012.0	2072.7	2186.4	2308.0	2419.3	2496.5	2537.0	2549.4
25°	3317.4	2719.2	2031.4	1940.3	2029.9	2152.2	2259.7	2349.2	2406.9	2427.1	2430.2
27.5°	3340.8	2635.9	1914.6	1878.0	1985.5	2096.1	2170.1	2214.5	2230.8	2229.3	2226.2
30°	3343.9	2526.1	1814.1	1827.4	1934.1	2013.5	2048.6	2040.0	2019.0	1983.1	1986.3
32.5°	3333.8	2402.2	1730.0	1779.1	1868.6	1913.0	1914.6	1873.3	1817.2	1760.4	1744.8
35°	3336.9	2280.7	1656.0	1724.5	1789.2	1808.7	1790.7	1730.0	1653.7	1580.4	1564.9
37.5°	3371.2	2174.8	1592.1	1661.4	1701.2	1705.8	1680.1	1616.3	1560.2	1488.5	1482.3
40°	3453.0	2099.2	1531.4	1590.6	1613.2	1615.5	1578.9	1533.7	1538.4	1500.2	1499.4
42.5°	3600.2	2066.5	1477.6	1516.6	1530.6	1535.3	1507.2	1478.4	1518.9	1494.0	1485.4
45°	3790.2	2074.3	1432.4	1444.1	1469.8	1491.6	1474.5	1439.5	1455.0	1346.8	1310.9
47.5°	4009.9	2124.1	1396.6	1381.8	1426.2	1467.5	1441.0	1388.0	1332.7	1225.2	1205.0
50°	4266.9	2201.2	1363.9	1320.3	1378.7	1434.8	1408.3	1332.7	1249.4	1197.2	1190.2
52.5°	4534.9	2295.5	1331.2	1252.5	1318.7	1409.9	1396.6	1320.3	1217.5	1166.0	1156.7
55°	4838.7	2390.5	1289.9	1173.8	1254.1	1398.2	1391.2	1275.1	1193.3	1164.5	1157.5
57.5°	5216.5	2498.8	1235.4	1092.1	1193.3	1356.1	1334.3	1247.8	1168.4	1146.6	1144.2
60°	5708.7	2658.5	1156.7	1004.8	1119.3	1291.5	1286.8	1208.1	1128.7	1113.1	1110.0
62.5°	6447.2	2922.5	1048.4	917.6	1036.7	1181.6	1224.5	1154.4	1086.6	1085.8	1087.4
65°	7592.2	3319.8	930.8	841.2	953.4	1088.9	1152.0	1099.1	1043.8	1059.3	1061.7
67.5°	8919.5	3649.3	815.5	766.5	868.5	1000.9	1086.6	1043.8	986.9	1027.4	1028.2
70°	9361.1	3354.8	714.3	692.5	780.5	916.0	1015.7	983.0	925.4	965.9	962.0
72°	8711.5	2708.3	648.8	636.4	714.3	845.9	952.6	926.1	869.3	896.5	886.4
72.5°	8506.6	2582.1	632.5	622.4	696.4	828.0	936.3	912.1	855.3	878.6	869.3
75°	7588.3	2242.5	543.7	546.0	607.6	740.8	844.4	836.6	778.1	780.5	777.4
77.5°	5503.9	1644.3	458.0	473.6	517.2	651.2	751.7	747.0	683.1	671.4	669.1
80°	2554.1	838.9	373.1	380.1	425.3	544.5	641.1	634.8	583.4	568.6	560.0
82.5°	874.7	398.8	280.4	285.1	329.5	438.5	556.2	552.3	509.4	480.6	462.7
85°	312.3	198.6	196.3	191.6	235.2	345.1	484.5	463.5	400.4	341.2	339.6
87.5°	101.3	84.9	101.3	100.5	137.1	233.7	352.1	299.9	290.5	241.5	236.8
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)