

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: P318032

Luminaire Tested: **GAN-SA8A-730-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318032
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-SA8A-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33378 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

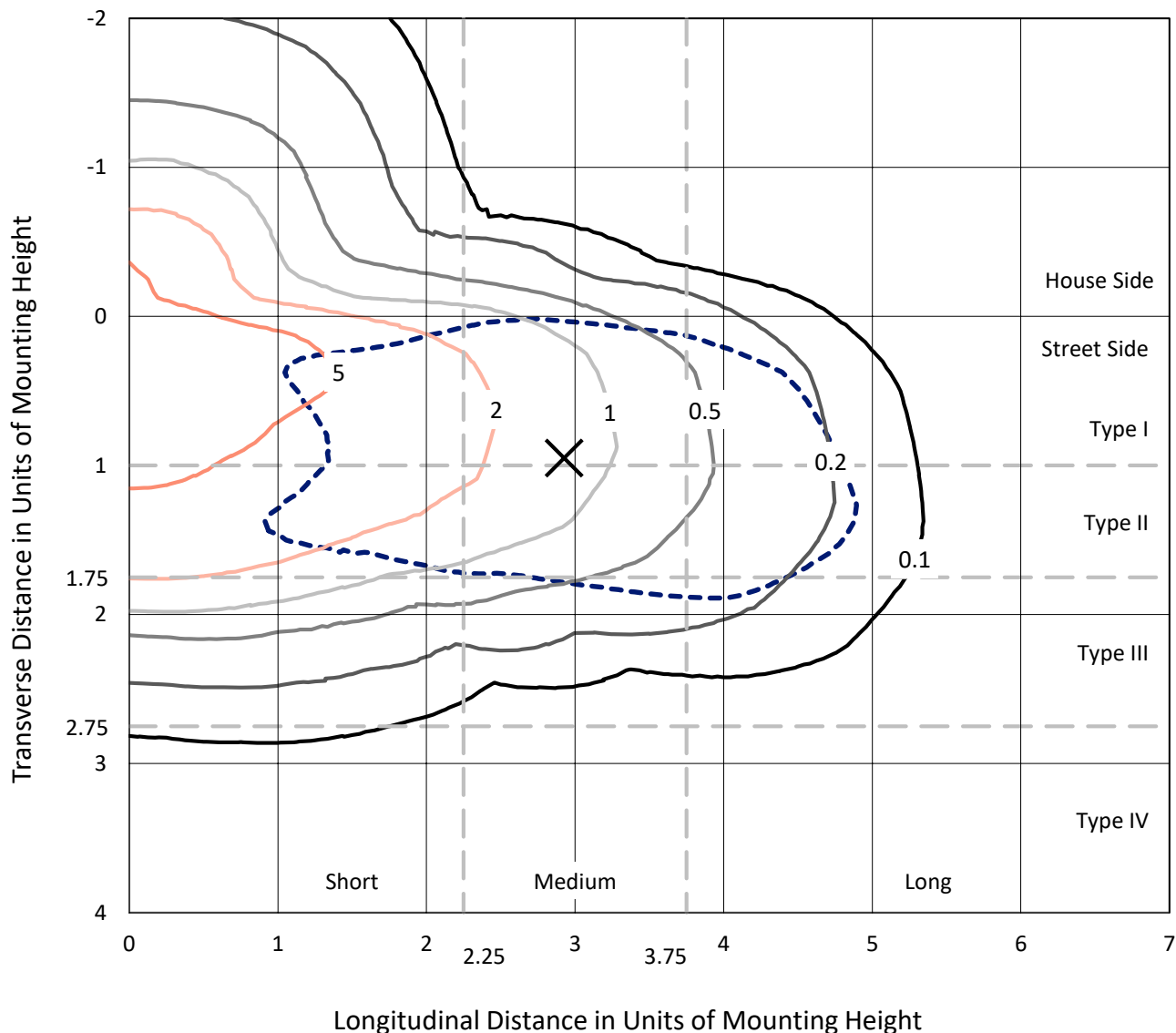
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

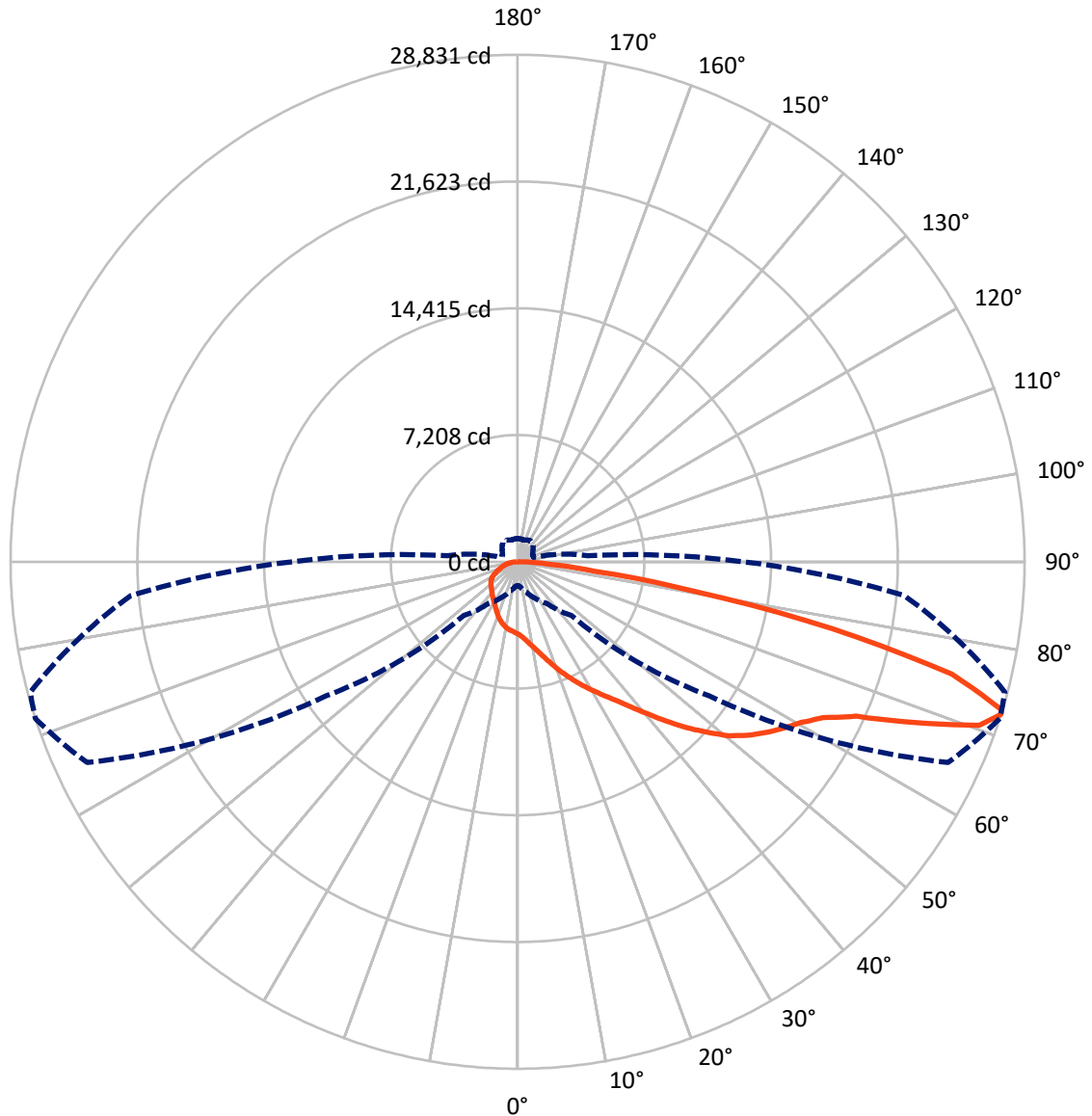
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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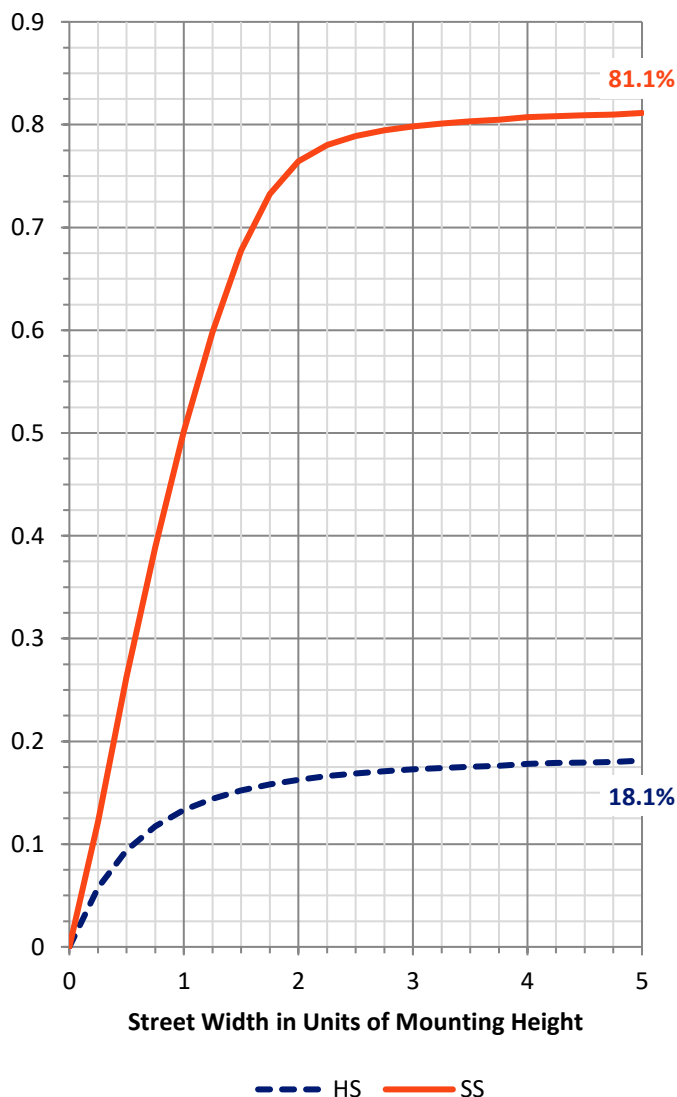
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6191.8	0.0	6191.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	27186.2	0.0	27186.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	33378.0	0.0	33378.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.5	1.2
10°-20°	1329.7	4.0
20°-30°	2330.0	7.0
30°-40°	3454.7	10.4
40°-50°	5052.7	15.1
50°-60°	6952.5	20.8
60°-70°	7740.2	23.2
70°-80°	5244.8	15.7
80°-90°	862.0	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°	33378.0	100.0
0°-180°	33378.0	100.0

Coefficient of Utilization

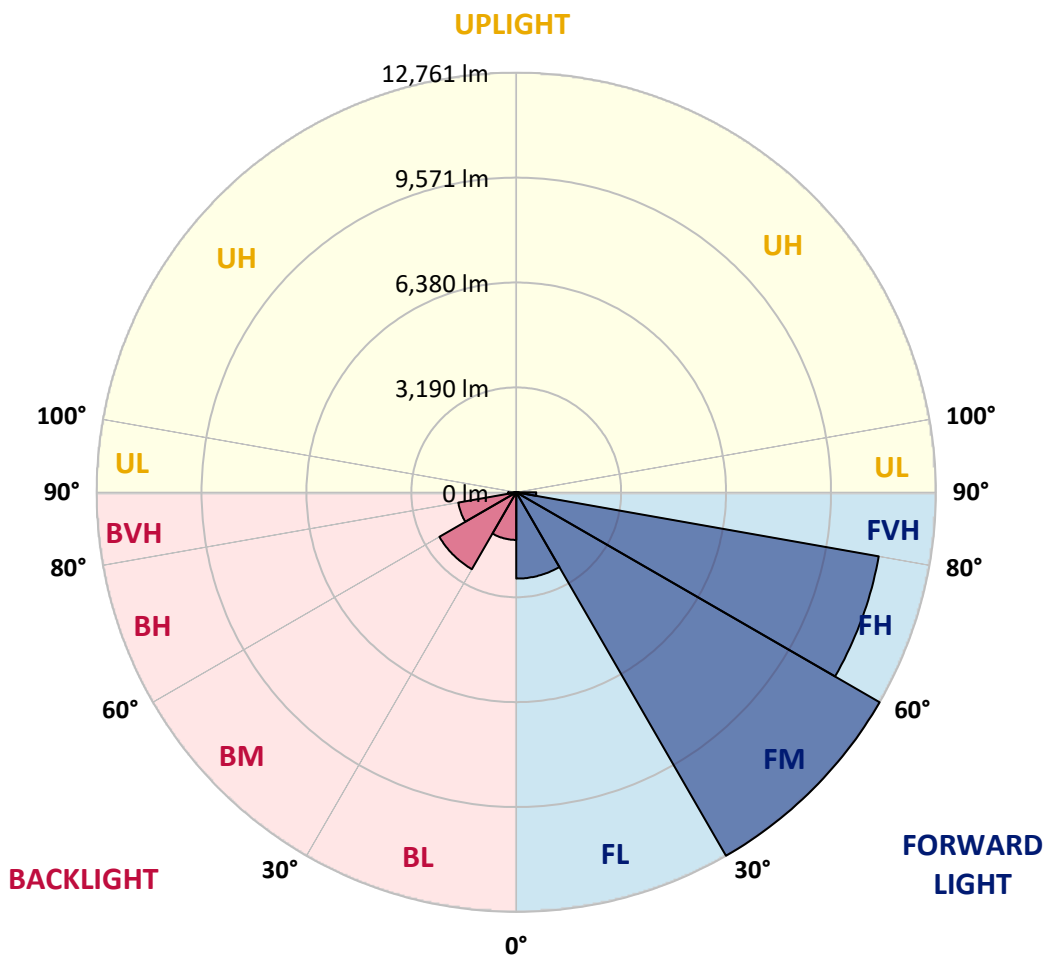


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2623.7	7.9			
FM (30°-60°)	12760.8	38.2			
FH (60°-80°)	11193.6	33.5			G4/12000
FVH (80°-90°)	608.1	1.8			G4/750
BL (0°-30°)	1447.4	4.3	B3/2500		
BM (30°-60°)	2699.1	8.1	B3/5000		
BH (60°-80°)	1791.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	254.0	0.8			G3/500
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°	4106.4	4106.4	4106.4	4106.4	4106.4	4106.4	4106.4	4106.4	4106.4	4106.4	4106.4
2.5°	4536.2	4529.3	4505.2	4505.2	4459.2	4420.1	4346.6	4297.1	4238.5	4217.8	4148.9
5°	4975.2	4977.5	4947.6	4926.9	4859.1	4776.4	4651.1	4537.3	4423.6	4377.6	4236.2
7.5°	5344.1	5339.5	5331.5	5314.3	5251.0	5166.0	4997.1	4828.1	4660.3	4591.4	4347.7
10°	5580.9	5591.2	5598.1	5606.2	5579.7	5518.8	5359.1	5153.4	4933.8	4839.6	4481.0
12.5°	5700.4	5718.8	5751.0	5806.1	5849.8	5842.9	5726.8	5508.5	5247.6	5129.2	4647.7
15°	5770.5	5794.7	5845.2	5944.1	6067.0	6137.1	6106.1	5908.4	5617.7	5471.7	4851.1
17.5°	5814.2	5833.7	5911.9	6044.0	6226.8	6413.0	6494.6	6329.1	6036.0	5869.4	5084.4
20°	5844.1	5859.0	5956.7	6111.9	6348.6	6645.1	6872.7	6831.3	6496.9	6280.8	5328.0
22.5°	5910.7	5923.4	6016.5	6172.8	6434.8	6817.5	7237.0	7299.1	6983.0	6738.2	5588.9
25°	6096.9	6096.9	6175.1	6284.2	6530.2	6966.9	7545.0	7819.7	7479.5	7194.5	5830.3
27.5°	6452.0	6448.6	6477.3	6515.2	6701.4	7118.6	7819.7	8279.4	7994.4	7682.9	6064.7
30°	6872.7	6895.7	6899.1	6880.7	6968.1	7308.2	8073.7	8764.4	8512.7	8177.1	6304.9
32.5°	7414.0	7428.9	7411.7	7350.8	7338.1	7577.2	8323.1	9272.4	9073.5	8693.1	6524.4
35°	8101.2	8072.5	8018.5	7894.4	7776.0	7936.9	8608.1	9780.3	9703.3	9317.2	6826.7
37.5°	8837.9	8839.1	8772.4	8490.9	8327.7	8396.6	9001.1	10356.1	10465.3	10059.6	7214.0
40°	9428.7	9459.7	9501.1	9131.0	8919.5	9014.9	9501.1	11023.9	11366.3	10940.0	7718.5
42.5°	9841.3	9876.9	9994.1	9762.0	9542.4	9719.4	10089.5	11736.4	12377.7	11955.9	8309.3
45°	10278.0	10297.5	10380.3	10280.3	10140.1	10538.9	10752.6	12474.2	13447.7	13038.5	8970.1
47.5°	10737.7	10758.4	10843.4	10776.8	10703.2	11304.3	11444.5	13169.6	14472.8	14228.0	9675.8
50°	11305.4	11319.2	11399.7	11279.0	11302.0	11881.2	12062.8	13807.4	15547.4	15296.9	10383.7
52.5°	12080.0	12083.5	12195.0	12085.8	11977.8	12304.2	12594.9	14408.5	16389.8	16271.5	11091.7
55°	12686.9	12723.6	13089.1	13066.1	13004.1	12688.0	13039.7	14980.8	17141.5	17197.8	11843.3
57.5°	12299.6	12443.2	13183.4	13705.1	14213.1	13643.1	13640.8	15625.6	17840.2	18106.9	12669.6
60°	10772.2	10967.5	12058.2	13215.5	14805.0	15304.9	14888.9	16412.8	18545.9	19007.9	13705.1
62.5°	7693.3	8015.1	9493.0	11341.1	13993.6	16405.9	17428.8	17662.1	19505.5	20051.4	15050.9
65°	3889.2	4132.8	5371.7	7597.9	11180.2	15686.5	20189.3	20397.4	21173.1	21658.1	17123.1
67.5°	2362.9	2454.9	3059.4	4225.9	6854.3	12219.1	21090.4	24956.5	24400.3	24657.7	20077.9
70°	1741.2	1809.0	2185.9	2806.5	3942.0	7170.3	18325.2	28210.1	27844.7	27815.9	22261.5
72°	1356.1	1405.6	1738.9	2267.5	2882.4	4301.7	13282.2	27009.1	28830.7	28685.9	22061.5
72.5°	1286.0	1329.7	1633.1	2134.2	2723.8	3899.5	11942.1	26198.9	28759.5	28694.0	21802.9
75°	1012.5	1043.5	1209.0	1650.4	2131.9	2212.4	6544.0	20303.1	25512.8	26573.6	19610.1
77.5°	837.8	842.4	929.8	1201.0	1661.9	1564.2	3214.5	14086.7	18268.9	19435.4	13891.3
80°	682.7	688.4	729.8	842.4	1257.3	1157.3	1526.2	8100.1	10228.6	10241.2	6606.0
82.5°	543.6	544.8	590.7	616.0	903.3	827.5	874.6	3803.0	4469.5	4299.4	2374.4
85°	382.7	374.7	576.9	505.7	590.7	531.0	482.7	1505.6	1848.0	1767.6	743.6
87.5°	127.6	132.2	256.3	327.5	344.8	301.1	214.9	576.9	697.6	691.9	235.6
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°	4106.4	4106.4	4106.4	4106.4	4106.4	4106.4	4106.4	4106.4	4106.4	4106.4	4106.4
2.5°	4127.1	4090.3	4036.3	3976.5	3929.4	3881.1	3845.5	3827.1	3806.4	3789.2	3809.9
5°	4170.7	4101.8	3986.8	3874.2	3791.5	3717.9	3665.0	3637.5	3612.2	3594.9	3597.2
7.5°	4242.0	4130.5	3937.4	3773.1	3658.1	3578.8	3524.8	3506.4	3490.4	3485.8	3491.5
10°	4317.8	4153.5	3871.9	3653.5	3522.5	3457.0	3432.9	3445.5	3457.0	3467.4	3478.9
12.5°	4404.0	4174.2	3776.5	3513.3	3401.9	3376.6	3400.7	3455.9	3496.1	3520.2	3535.2
15°	4516.7	4192.6	3666.2	3373.1	3298.4	3327.2	3408.8	3504.1	3574.2	3619.1	3626.0
17.5°	4620.1	4191.4	3524.8	3231.8	3214.5	3298.4	3421.4	3555.9	3650.1	3713.3	3726.0
20°	4727.0	4160.4	3360.5	3093.9	3129.5	3267.4	3427.1	3589.2	3703.0	3776.5	3793.8
22.5°	4827.0	4106.4	3180.0	2968.6	3058.2	3226.0	3405.3	3569.7	3683.4	3743.2	3761.6
25°	4894.8	4012.1	2997.3	2862.8	2995.0	3175.5	3334.1	3466.2	3551.3	3581.1	3585.7
27.5°	4929.2	3889.2	2824.9	2770.9	2929.5	3092.7	3201.9	3267.4	3291.5	3289.2	3284.6
30°	4933.8	3727.1	2676.7	2696.2	2853.7	2970.9	3022.6	3010.0	2978.9	2926.1	2930.7
32.5°	4918.9	3544.4	2552.5	2624.9	2757.1	2822.6	2824.9	2764.0	2681.3	2597.4	2574.4
35°	4923.5	3365.1	2443.4	2544.5	2639.9	2668.6	2642.2	2552.5	2439.9	2331.9	2308.9
37.5°	4974.1	3208.8	2349.1	2451.4	2510.0	2516.9	2479.0	2384.7	2302.0	2196.3	2187.1
40°	5094.7	3097.3	2259.5	2346.8	2380.2	2383.6	2329.6	2262.9	2269.8	2213.5	2212.4
42.5°	5312.0	3049.0	2180.2	2237.6	2258.3	2265.2	2223.8	2181.3	2241.1	2204.3	2191.7
45°	5592.4	3060.5	2113.5	2130.8	2168.7	2200.9	2175.6	2123.9	2146.8	1987.1	1934.2
47.5°	5916.5	3134.1	2060.7	2038.8	2104.3	2165.2	2126.2	2048.0	1966.4	1807.8	1777.9
50°	6295.7	3247.9	2012.4	1948.0	2034.2	2117.0	2077.9	1966.4	1843.4	1766.4	1756.1
52.5°	6691.1	3386.9	1964.1	1848.0	1945.7	2080.2	2060.7	1948.0	1796.3	1720.5	1706.7
55°	7139.3	3527.1	1903.2	1732.0	1850.3	2063.0	2052.6	1881.4	1760.7	1718.2	1707.8
57.5°	7696.7	3686.9	1822.8	1611.3	1760.7	2000.9	1968.7	1841.1	1723.9	1691.7	1688.3
60°	8423.0	3922.5	1706.7	1482.6	1651.5	1905.5	1898.6	1782.5	1665.3	1642.3	1637.7
62.5°	9512.6	4312.1	1546.9	1353.8	1529.7	1743.5	1806.7	1703.2	1603.2	1602.1	1604.4
65°	11202.0	4898.2	1373.4	1241.2	1406.7	1606.7	1699.8	1621.6	1540.0	1563.0	1566.5
67.5°	13160.4	5384.4	1203.3	1130.9	1281.4	1476.8	1603.2	1540.0	1456.1	1515.9	1517.0
70°	13812.0	4949.9	1053.9	1021.7	1151.6	1351.5	1498.7	1450.4	1365.3	1425.1	1419.4
72°	12853.5	3996.0	957.3	939.0	1053.9	1248.1	1405.6	1366.5	1282.6	1322.8	1307.9
72.5°	12551.2	3809.9	933.2	918.3	1027.5	1221.7	1381.4	1345.8	1261.9	1296.4	1282.6
75°	11196.3	3308.8	802.2	805.6	896.4	1093.0	1245.8	1234.3	1148.1	1151.6	1147.0
77.5°	8120.8	2426.1	675.8	698.8	763.1	960.8	1109.1	1102.2	1007.9	990.7	987.2
80°	3768.5	1237.8	550.5	560.8	627.5	803.3	945.9	936.7	860.8	839.0	826.3
82.5°	1290.6	588.4	413.7	420.6	486.1	647.0	820.6	814.8	751.6	709.1	682.7
85°	460.9	293.1	289.6	282.7	347.1	509.1	714.8	683.8	590.7	503.4	501.1
87.5°	149.4	125.3	149.4	148.3	202.3	344.8	519.5	442.5	428.7	356.3	349.4
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)