

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: P318139

Luminaire Tested: **GAN-SA5D-750-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318139
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-SA5D-750-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38055 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

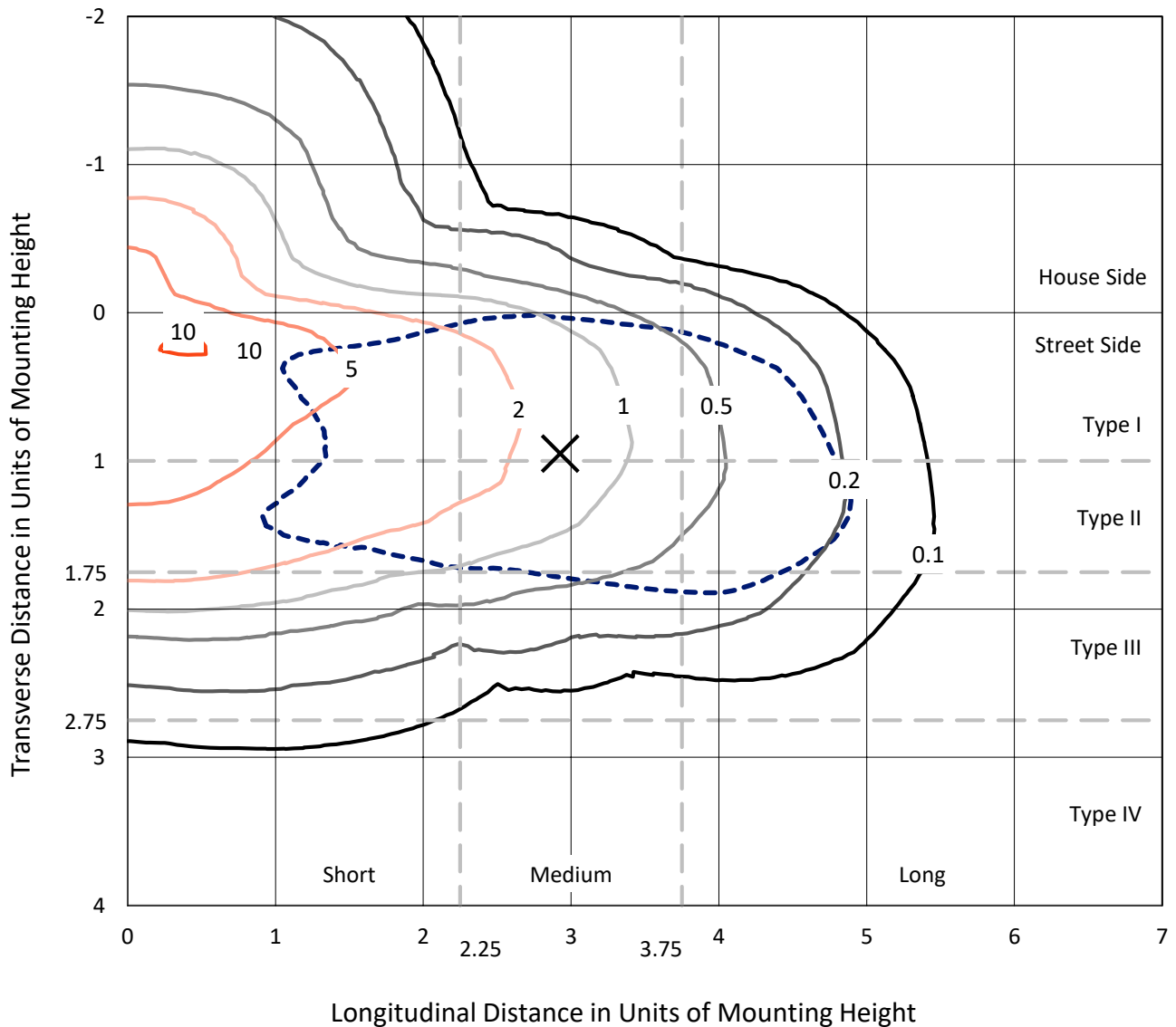
Input Watts (W): 320
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

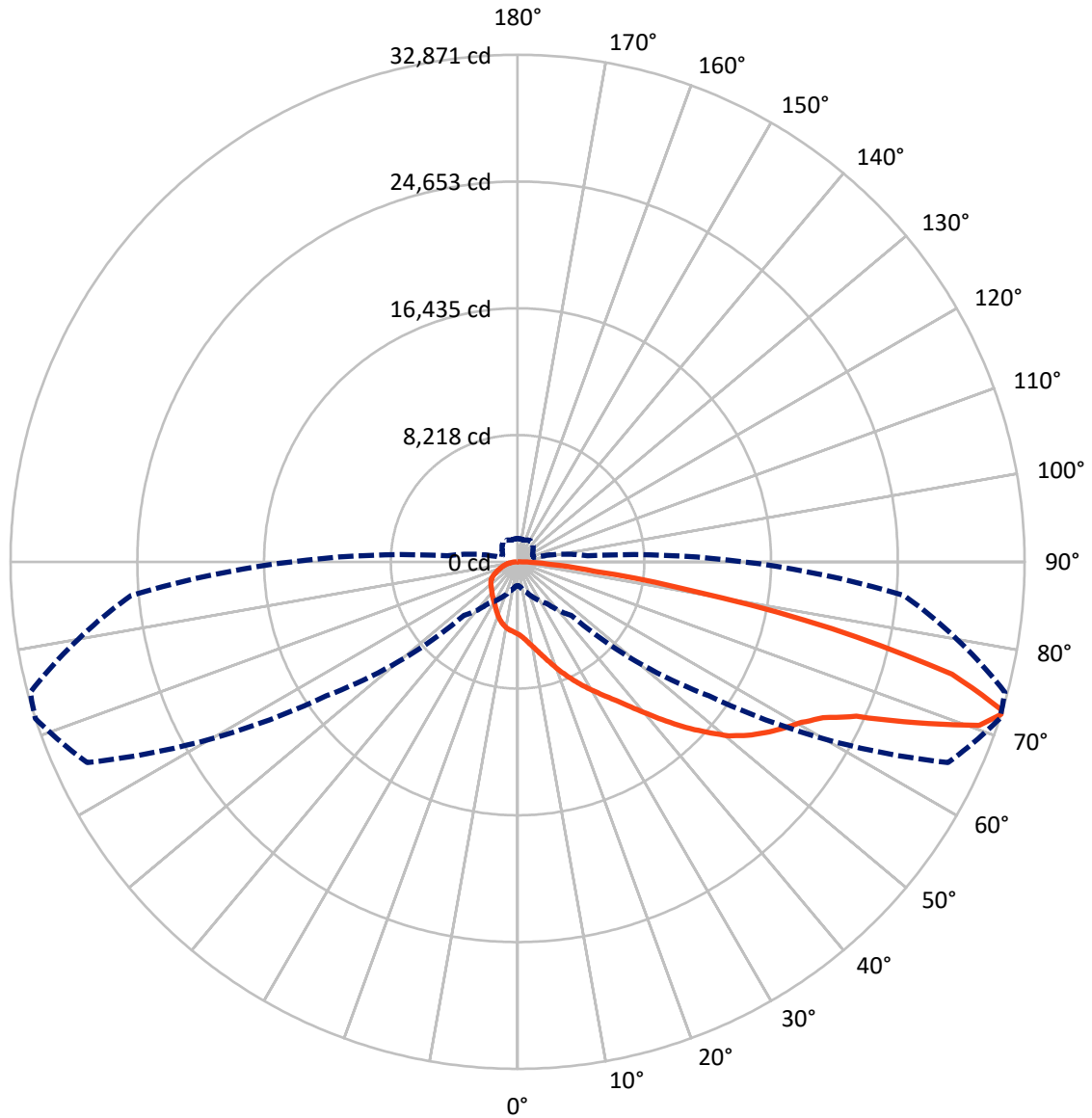
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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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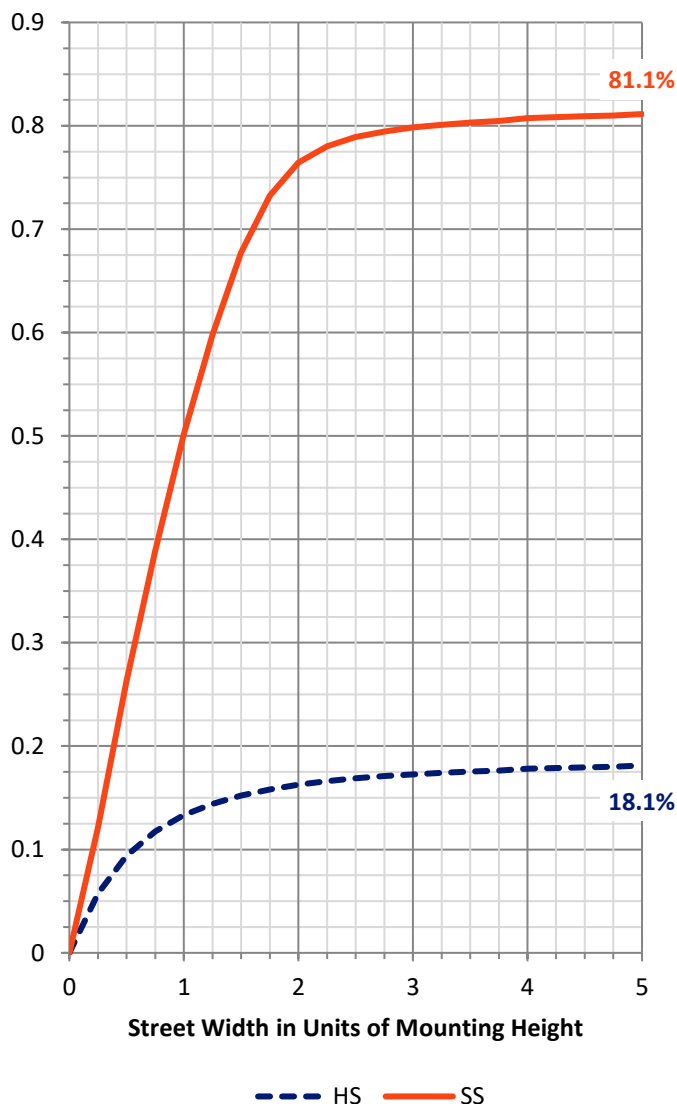
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7059.5	0.0	7059.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	30995.5	0.0	30995.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	38055.0	0.0	38055.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.1	1.2
10°-20°	1516.0	4.0
20°-30°	2656.5	7.0
30°-40°	3938.7	10.4
40°-50°	5760.7	15.1
50°-60°	7926.7	20.8
60°-70°	8824.8	23.2
70°-80°	5979.7	15.7
80°-90°	982.8	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°	38055.0	100.0
0°-180°	38055.0	100.0

Coefficient of Utilization

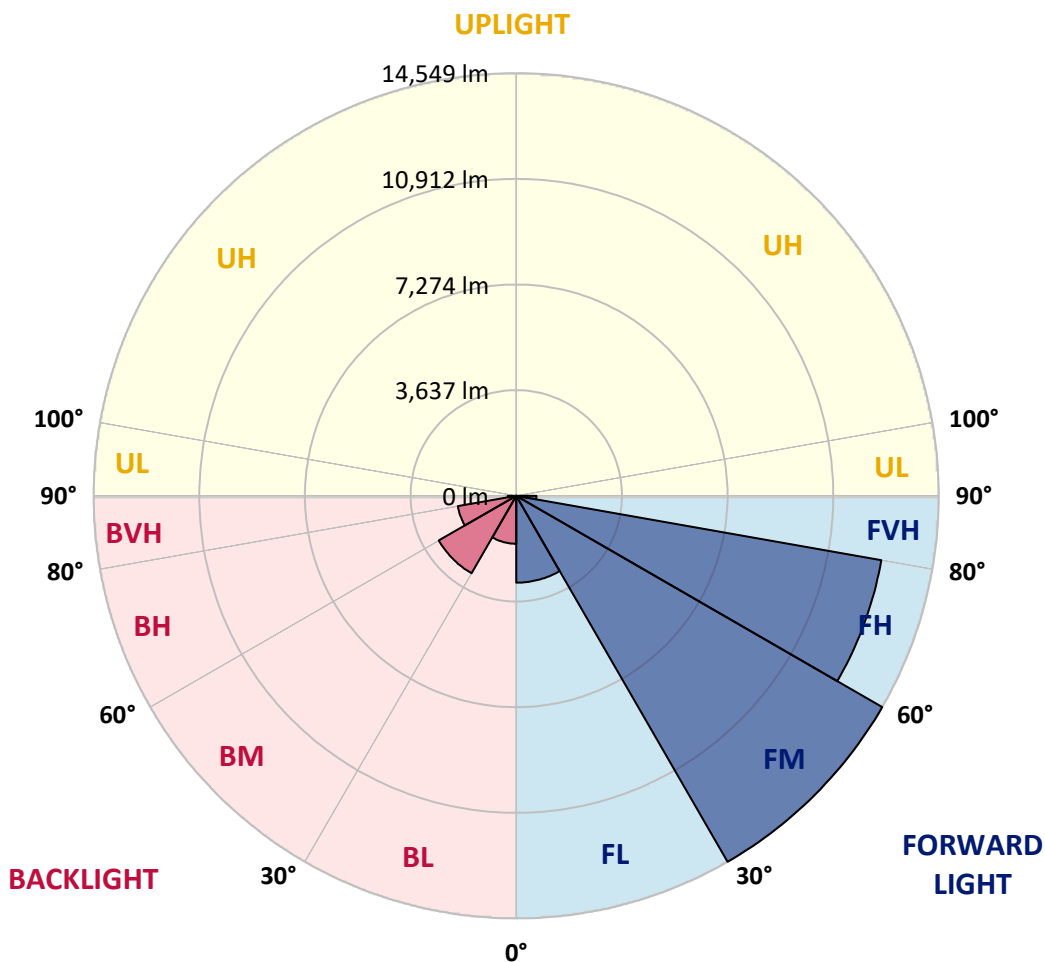


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2991.3	7.9			
FM (30°-60°)	14548.9	38.2			
FH (60°-80°)	12762.0	33.5			G5
FVH (80°-90°)	693.3	1.8			G4/750
BL (0°-30°)	1650.2	4.3	B3/2500		
BM (30°-60°)	3077.3	8.1	B3/5000		
BH (60°-80°)	2042.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	289.5	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-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4681.8	4681.8	4681.8	4681.8	4681.8	4681.8	4681.8	4681.8	4681.8	4681.8	4681.8
2.5°	5171.8	5164.0	5136.4	5136.4	5084.0	5039.5	4955.6	4899.3	4832.4	4808.9	4730.2
5°	5672.4	5675.0	5640.9	5617.3	5540.0	5445.7	5302.8	5173.1	5043.4	4991.0	4829.8
7.5°	6093.0	6087.7	6078.6	6058.9	5986.8	5889.9	5697.3	5504.6	5313.3	5234.7	4956.9
10°	6362.9	6374.7	6382.5	6391.7	6361.6	6292.1	6110.0	5875.5	5625.2	5517.7	5108.9
12.5°	6499.2	6520.1	6556.8	6619.7	6669.5	6661.6	6529.3	6280.3	5982.9	5847.9	5298.9
15°	6579.1	6606.6	6664.3	6777.0	6917.2	6997.1	6961.7	6736.3	6404.8	6238.4	5530.8
17.5°	6628.9	6651.2	6740.3	6890.9	7099.3	7311.6	7404.6	7215.9	6881.8	6691.8	5796.8
20°	6663.0	6680.0	6791.4	6968.3	7238.2	7576.2	7835.7	7788.5	7407.2	7160.9	6074.6
22.5°	6739.0	6753.4	6859.5	7037.7	7336.5	7772.8	8251.1	8321.8	7961.5	7682.4	6372.1
25°	6951.2	6951.2	7040.3	7164.8	7445.2	7943.1	8602.2	8915.4	8527.5	8202.6	6647.2
27.5°	7356.1	7352.2	7384.9	7428.2	7640.5	8116.1	8915.4	9439.5	9114.6	8759.5	6914.5
30°	7835.7	7861.9	7865.8	7844.9	7944.4	8332.3	9205.0	9992.5	9705.5	9322.9	7188.4
32.5°	8452.8	8469.9	8450.2	8380.8	8366.4	8638.9	9489.3	10571.6	10344.9	9911.2	7438.7
35°	9236.4	9203.7	9142.1	9000.6	8865.6	9049.0	9814.3	11150.8	11063.0	10622.7	7783.3
37.5°	10076.3	10077.6	10001.6	9680.6	9494.5	9573.2	10262.4	11807.3	11931.7	11469.2	8224.9
40°	10749.8	10785.2	10832.4	10410.5	10169.4	10278.1	10832.4	12568.5	12959.0	12472.9	8800.1
42.5°	11220.2	11260.9	11394.5	11129.8	10879.6	11081.3	11503.3	13380.9	14112.1	13631.2	9473.6
45°	11718.2	11740.4	11834.8	11720.8	11560.9	12015.6	12259.3	14222.2	15332.0	14865.5	10227.0
47.5°	12242.3	12265.9	12362.8	12286.8	12203.0	12888.3	13048.1	15014.9	16500.8	16221.7	11031.5
50°	12889.6	12905.3	12997.0	12859.4	12885.6	13546.0	13753.1	15742.1	17726.0	17440.3	11838.7
52.5°	13772.7	13776.7	13903.8	13779.3	13656.1	14028.2	14359.7	16427.4	18686.4	18551.4	12645.9
55°	14464.6	14506.5	14923.2	14897.0	14826.2	14465.9	14866.8	17080.0	19543.4	19607.6	13502.8
57.5°	14023.0	14186.8	15030.6	15625.5	16204.7	15554.8	15552.1	17815.1	20340.0	20644.0	14444.9
60°	12281.6	12504.3	13747.8	15067.3	16879.5	17449.5	16975.1	18712.6	21144.6	21671.3	15625.5
62.5°	8771.3	9138.1	10823.2	12930.2	15954.4	18704.8	19870.9	20136.9	22238.7	22861.1	17159.9
65°	4434.1	4711.9	6124.4	8662.5	12746.8	17884.5	23018.3	23255.5	24139.9	24692.9	19522.4
67.5°	2694.0	2798.8	3488.1	4818.0	7814.7	13931.3	24045.6	28453.5	27819.3	28112.8	22891.2
70°	1985.1	2062.4	2492.2	3199.8	4494.4	8175.1	20893.0	32163.0	31746.3	31713.6	25380.8
72°	1546.2	1602.5	1982.5	2585.3	3286.3	4904.5	15143.3	30793.7	32870.6	32705.5	25152.8
72.5°	1466.2	1516.0	1862.0	2433.3	3105.4	4445.9	13615.5	29870.0	32789.3	32714.7	24858.0
75°	1154.4	1189.8	1378.5	1881.6	2430.6	2522.4	7460.9	23148.0	29087.7	30297.1	22357.9
77.5°	955.2	960.5	1060.0	1369.3	1894.7	1783.3	3665.0	16060.5	20828.8	22158.7	15837.8
80°	778.3	784.9	832.1	960.5	1433.5	1319.5	1740.1	9235.1	11661.8	11676.2	7531.7
82.5°	619.8	621.1	673.5	702.3	1029.9	943.4	997.2	4335.8	5095.8	4901.9	2707.1
85°	436.3	427.2	657.8	576.5	673.5	605.4	550.3	1716.5	2107.0	2015.3	847.8
87.5°	145.4	150.7	292.2	373.4	393.1	343.3	245.0	657.8	795.4	788.8	268.6
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°	4681.8	4681.8	4681.8	4681.8	4681.8	4681.8	4681.8	4681.8	4681.8	4681.8	4681.8
2.5°	4705.3	4663.4	4601.8	4533.7	4480.0	4424.9	4384.3	4363.4	4339.8	4320.1	4343.7
5°	4755.1	4676.5	4545.5	4417.1	4322.7	4238.9	4178.6	4147.1	4118.3	4098.7	4101.3
7.5°	4836.4	4709.3	4489.1	4301.8	4170.7	4080.3	4018.7	3997.8	3979.4	3974.2	3980.7
10°	4922.9	4735.5	4414.5	4165.5	4016.1	3941.4	3913.9	3928.3	3941.4	3953.2	3966.3
12.5°	5021.1	4759.1	4305.7	4005.6	3878.5	3849.7	3877.2	3940.1	3986.0	4013.5	4030.5
15°	5149.5	4780.0	4179.9	3845.8	3760.6	3793.4	3886.4	3995.2	4075.1	4126.2	4134.0
17.5°	5267.5	4778.7	4018.7	3684.6	3665.0	3760.6	3900.8	4054.1	4161.6	4233.6	4248.0
20°	5389.3	4743.3	3831.4	3527.4	3568.0	3725.2	3907.4	4092.1	4221.8	4305.7	4325.4
22.5°	5503.3	4681.8	3625.6	3384.5	3486.7	3678.1	3882.5	4069.8	4199.6	4267.7	4288.7
25°	5580.6	4574.3	3417.3	3264.0	3414.7	3620.4	3801.2	3951.9	4048.9	4082.9	4088.2
27.5°	5619.9	4434.1	3220.8	3159.2	3340.0	3526.1	3650.5	3725.2	3752.7	3750.1	3744.9
30°	5625.2	4249.4	3051.7	3074.0	3253.5	3387.2	3446.1	3431.7	3396.3	3336.1	3341.3
32.5°	5608.2	4041.0	2910.2	2992.8	3143.4	3218.1	3220.8	3151.3	3057.0	2961.3	2935.1
35°	5613.4	3836.6	2785.7	2901.0	3009.8	3042.6	3012.4	2910.2	2781.8	2658.6	2632.4
37.5°	5671.0	3658.4	2678.3	2794.9	2861.7	2869.6	2826.4	2718.9	2624.6	2504.0	2493.5
40°	5808.6	3531.3	2576.1	2675.7	2713.7	2717.6	2656.0	2580.0	2587.9	2523.7	2522.4
42.5°	6056.3	3476.3	2485.7	2551.2	2574.8	2582.6	2535.5	2487.0	2555.1	2513.2	2498.8
45°	6376.0	3489.4	2409.7	2429.3	2472.6	2509.3	2480.4	2421.5	2447.7	2265.5	2205.3
47.5°	6745.5	3573.2	2349.4	2324.5	2399.2	2468.6	2424.1	2335.0	2242.0	2061.1	2027.1
50°	7177.9	3703.0	2294.4	2221.0	2319.3	2413.6	2369.1	2242.0	2101.7	2014.0	2002.2
52.5°	7628.7	3861.5	2239.3	2107.0	2218.4	2371.7	2349.4	2221.0	2048.0	1961.5	1945.8
55°	8139.7	4021.4	2169.9	1974.6	2109.6	2352.0	2340.2	2145.0	2007.4	1958.9	1947.1
57.5°	8775.2	4203.5	2078.2	1837.1	2007.4	2281.3	2244.6	2099.1	1965.5	1928.8	1924.9
60°	9603.3	4472.1	1945.8	1690.3	1882.9	2172.5	2164.6	2032.3	1898.6	1872.4	1867.2
62.5°	10845.5	4916.3	1763.7	1543.6	1744.0	1987.7	2059.8	1941.9	1827.9	1826.6	1829.2
65°	12771.6	5584.6	1565.8	1415.1	1603.8	1831.8	1938.0	1848.9	1755.8	1782.0	1786.0
67.5°	15004.4	6138.8	1371.9	1289.4	1461.0	1683.8	1827.9	1755.8	1660.2	1728.3	1729.6
70°	15747.4	5643.5	1201.6	1164.9	1312.9	1540.9	1708.7	1653.6	1556.7	1624.8	1618.2
72°	14654.6	4556.0	1091.5	1070.5	1201.6	1423.0	1602.5	1558.0	1462.3	1508.2	1491.1
72.5°	14310.0	4343.7	1064.0	1046.9	1171.4	1392.9	1575.0	1534.4	1438.7	1478.0	1462.3
75°	12765.1	3772.4	914.6	918.5	1022.0	1246.1	1420.4	1407.3	1309.0	1312.9	1307.7
77.5°	9258.7	2766.1	770.5	796.7	870.0	1095.4	1264.5	1256.6	1149.1	1129.5	1125.6
80°	4296.5	1411.2	627.6	639.4	715.4	915.9	1078.4	1067.9	981.4	956.5	942.1
82.5°	1471.5	670.9	471.7	479.6	554.3	737.7	935.6	929.0	856.9	808.5	778.3
85°	525.4	334.1	330.2	322.3	395.7	580.5	815.0	779.6	673.5	573.9	571.3
87.5°	170.3	142.8	170.3	169.0	230.6	393.1	592.3	504.5	488.7	406.2	398.3
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)