

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: P318099

Luminaire Tested: **GAN-SA5D-740-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318099
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-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38056 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

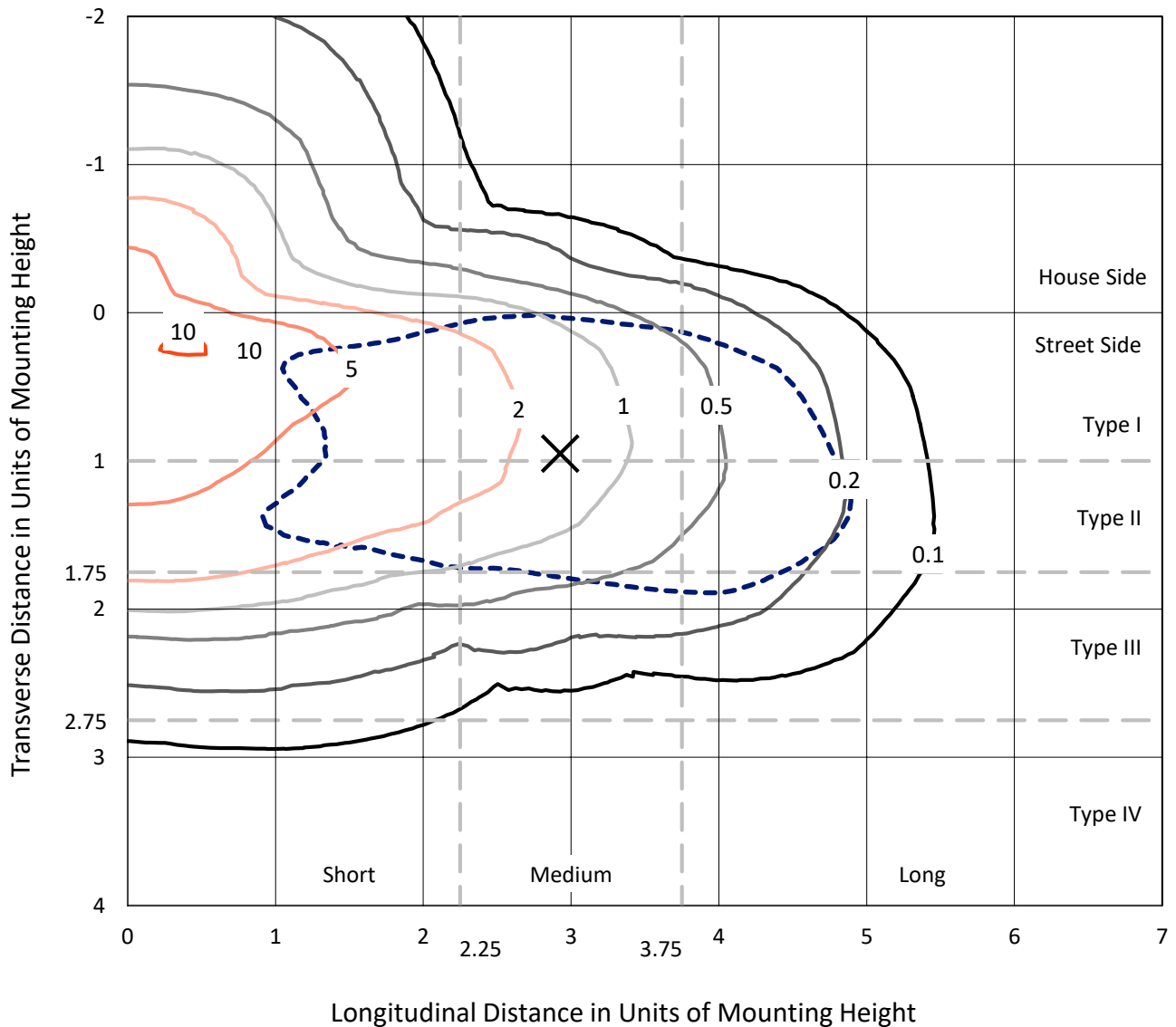
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

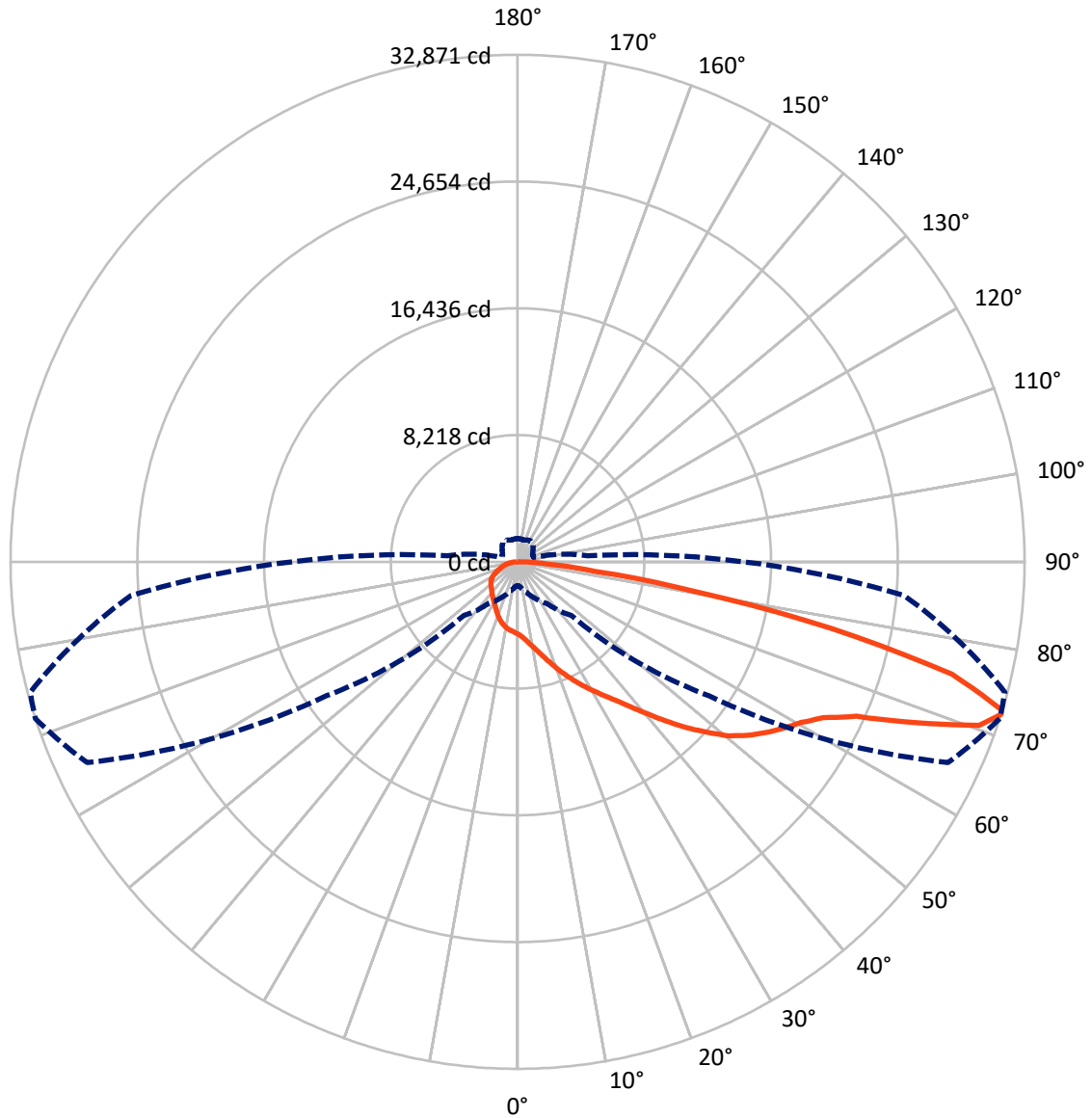
× Max cd
 - - - 1/2 Max cd



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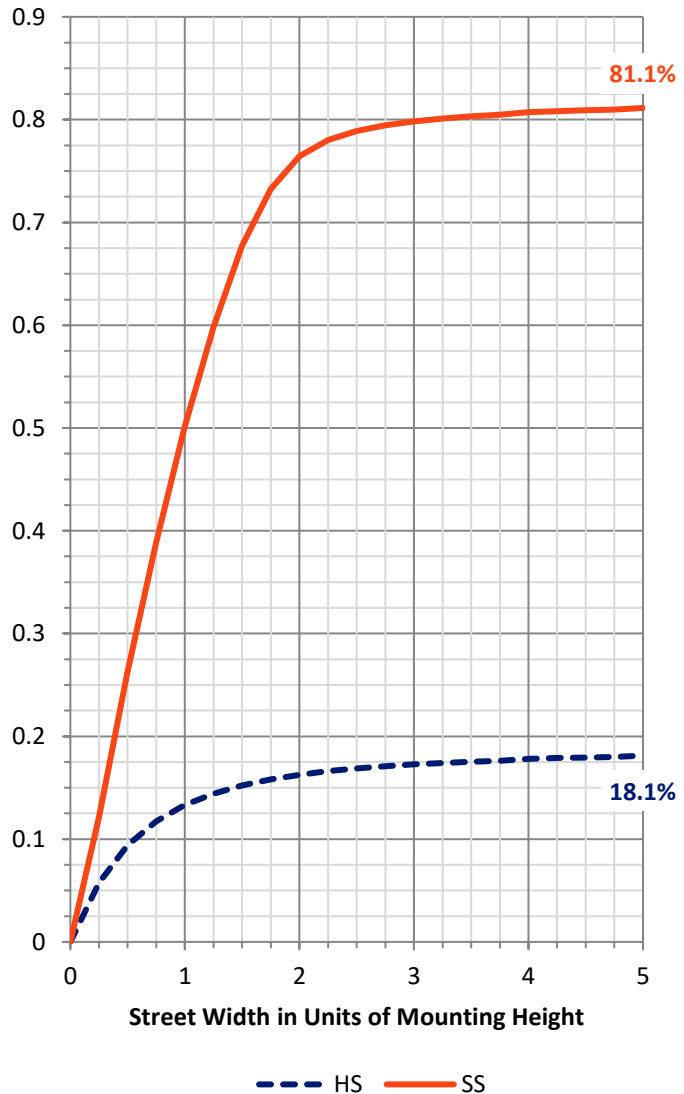
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7059.6	0.0	7059.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	30996.4	0.0	30996.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	38056.0	0.0	38056.0
	% 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°	2656.6	7.0
30°-40°	3938.8	10.4
40°-50°	5760.9	15.1
50°-60°	7926.9	20.8
60°-70°	8825.0	23.2
70°-80°	5979.8	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°	38056.0	100.0
0°-180°	38056.0	100.0

Coefficient of Utilization

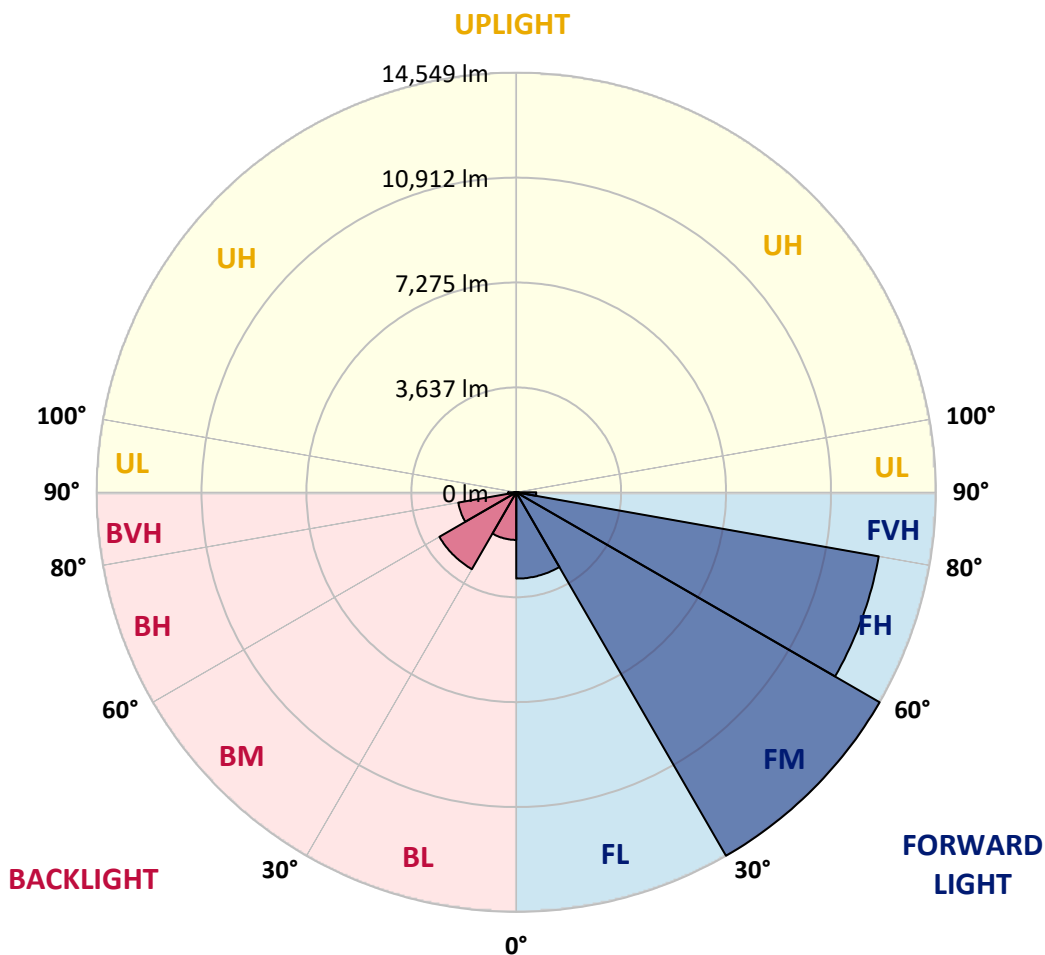


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2991.4	7.9			
FM (30°-60°)	14549.3	38.2			
FH (60°-80°)	12762.4	33.5			G5
FVH (80°-90°)	693.3	1.8			G4/750
BL (0°-30°)	1650.3	4.3	B3/2500		
BM (30°-60°)	3077.3	8.1	B3/5000		
BH (60°-80°)	2042.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	289.6	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°	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9
2.5°	5172.0	5164.1	5136.6	5136.6	5084.2	5039.6	4955.7	4899.4	4832.6	4809.0	4730.4
5°	5672.5	5675.1	5641.1	5617.5	5540.2	5445.8	5303.0	5173.3	5043.5	4991.1	4830.0
7.5°	6093.1	6087.9	6078.7	6059.1	5987.0	5890.0	5697.4	5504.8	5313.5	5234.8	4957.1
10°	6363.1	6374.9	6382.7	6391.9	6361.7	6292.3	6110.2	5875.6	5625.3	5517.9	5109.1
12.5°	6499.3	6520.3	6557.0	6619.9	6669.7	6661.8	6529.5	6280.5	5983.1	5848.1	5299.1
15°	6579.3	6606.8	6664.4	6777.1	6917.3	6997.3	6961.9	6736.5	6405.0	6238.6	5531.0
17.5°	6629.1	6651.3	6740.4	6891.1	7099.5	7311.8	7404.8	7216.1	6882.0	6692.0	5797.0
20°	6663.1	6680.2	6791.5	6968.4	7238.4	7576.4	7835.9	7788.7	7407.4	7161.1	6074.8
22.5°	6739.1	6753.5	6859.7	7037.9	7336.7	7773.0	8251.3	8322.0	7961.7	7682.6	6372.2
25°	6951.4	6951.4	7040.5	7165.0	7445.4	7943.3	8602.4	8915.6	8527.8	8202.8	6647.4
27.5°	7356.3	7352.4	7385.1	7428.4	7640.7	8116.3	8915.6	9439.8	9114.8	8759.7	6914.7
30°	7835.9	7862.1	7866.0	7845.1	7944.7	8332.5	9205.2	9992.7	9705.8	9323.1	7188.6
32.5°	8453.1	8470.1	8450.4	8381.0	8366.6	8639.1	9489.6	10571.9	10345.2	9911.5	7438.9
35°	9236.7	9203.9	9142.3	9000.8	8865.8	9049.3	9814.5	11151.1	11063.3	10623.0	7783.5
37.5°	10076.6	10077.9	10001.9	9680.9	9494.8	9573.4	10262.7	11807.6	11932.0	11469.5	8225.1
40°	10750.1	10785.5	10832.7	10410.7	10169.6	10278.4	10832.7	12568.9	12959.4	12473.2	8800.3
42.5°	11220.5	11261.1	11394.8	11130.1	10879.8	11081.6	11503.6	13381.3	14112.5	13631.6	9473.8
45°	11718.5	11740.7	11835.1	11721.1	11561.2	12015.9	12259.6	14222.5	15332.4	14865.9	10227.3
47.5°	12242.6	12266.2	12363.2	12287.2	12203.3	12888.6	13048.5	15015.3	16501.2	16222.1	11031.8
50°	12889.9	12905.6	12997.4	12859.8	12886.0	13546.4	13753.4	15742.5	17726.4	17440.8	11839.0
52.5°	13773.1	13777.0	13904.1	13779.6	13656.5	14028.6	14360.1	16427.9	18686.9	18551.9	12646.2
55°	14465.0	14506.9	14923.6	14897.4	14826.6	14466.3	14867.2	17080.4	19543.9	19608.1	13503.2
57.5°	14023.4	14187.2	15031.0	15625.9	16205.1	15555.2	15552.5	17815.5	20340.6	20644.6	14445.3
60°	12281.9	12504.7	13748.2	15067.7	16879.9	17449.9	16975.6	18713.1	21145.1	21671.9	15625.9
62.5°	8771.5	9138.4	10823.5	12930.5	15954.8	18705.2	19871.5	20137.5	22239.3	22861.7	17160.3
65°	4434.2	4712.0	6124.6	8662.7	12747.1	17885.0	23018.9	23256.1	24140.6	24693.5	19522.9
67.5°	2694.1	2798.9	3488.2	4818.2	7814.9	13931.6	24046.2	28454.3	27820.0	28113.6	22891.8
70°	1985.2	2062.5	2492.3	3199.9	4494.5	8175.3	20893.5	32163.9	31747.2	31714.4	25381.5
72°	1546.2	1602.6	1982.6	2585.3	3286.4	4904.6	15143.7	30794.5	32871.4	32706.3	25153.5
72.5°	1466.3	1516.1	1862.0	2433.3	3105.5	4446.0	13615.8	29870.7	32790.2	32715.5	24858.7
75°	1154.4	1189.8	1378.5	1881.7	2430.7	2522.4	7461.1	23148.6	29088.5	30297.9	22358.5
77.5°	955.2	960.5	1060.1	1369.3	1894.8	1783.4	3665.0	16061.0	20829.3	22159.3	15838.2
80°	778.3	784.9	832.1	960.5	1433.5	1319.5	1740.1	9235.3	11662.1	11676.5	7531.9
82.5°	619.8	621.1	673.5	702.3	1029.9	943.5	997.2	4335.9	5096.0	4902.0	2707.2
85°	436.3	427.2	657.8	576.6	673.5	605.4	550.3	1716.6	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°	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9
2.5°	4705.5	4663.5	4601.9	4533.8	4480.1	4425.1	4384.4	4363.5	4339.9	4320.2	4343.8
5°	4755.3	4676.6	4545.6	4417.2	4322.8	4239.0	4178.7	4147.3	4118.4	4098.8	4101.4
7.5°	4836.5	4709.4	4489.3	4301.9	4170.8	4080.4	4018.8	3997.9	3979.5	3974.3	3980.8
10°	4923.0	4735.6	4414.6	4165.6	4016.2	3941.5	3914.0	3928.4	3941.5	3953.3	3966.4
12.5°	5021.3	4759.2	4305.8	4005.7	3878.6	3849.8	3877.3	3940.2	3986.1	4013.6	4030.6
15°	5149.7	4780.2	4180.0	3845.9	3760.7	3793.5	3886.5	3995.3	4075.2	4126.3	4134.2
17.5°	5267.6	4778.8	4018.8	3684.7	3665.0	3760.7	3900.9	4054.2	4161.7	4233.7	4248.2
20°	5389.5	4743.5	3831.5	3527.5	3568.1	3725.3	3907.5	4092.2	4221.9	4305.8	4325.5
22.5°	5503.5	4681.9	3625.7	3384.6	3486.8	3678.2	3882.6	4069.9	4199.7	4267.8	4288.8
25°	5580.8	4574.4	3417.4	3264.1	3414.8	3620.5	3801.3	3952.0	4049.0	4083.1	4088.3
27.5°	5620.1	4434.2	3220.8	3159.3	3340.1	3526.2	3650.6	3725.3	3752.8	3750.2	3745.0
30°	5625.3	4249.5	3051.8	3074.1	3253.6	3387.3	3446.2	3431.8	3396.4	3336.2	3341.4
32.5°	5608.3	4041.1	2910.3	2992.8	3143.5	3218.2	3220.8	3151.4	3057.0	2961.4	2935.2
35°	5613.5	3836.7	2785.8	2901.1	3009.9	3042.6	3012.5	2910.3	2781.9	2658.7	2632.5
37.5°	5671.2	3658.5	2678.4	2795.0	2861.8	2869.7	2826.4	2719.0	2624.6	2504.1	2493.6
40°	5808.8	3531.4	2576.1	2675.7	2713.7	2717.7	2656.1	2580.1	2587.9	2523.7	2522.4
42.5°	6056.4	3476.4	2485.7	2551.3	2574.8	2582.7	2535.5	2487.0	2555.2	2513.3	2498.8
45°	6376.2	3489.5	2409.7	2429.4	2472.6	2509.3	2480.5	2421.5	2447.7	2265.6	2205.3
47.5°	6745.7	3573.3	2349.5	2324.6	2399.3	2468.7	2424.1	2335.0	2242.0	2061.2	2027.1
50°	7178.1	3703.0	2294.4	2221.0	2319.3	2413.7	2369.1	2242.0	2101.8	2014.0	2002.2
52.5°	7628.9	3861.6	2239.4	2107.0	2218.4	2371.7	2349.5	2221.0	2048.1	1961.6	1945.9
55°	8139.9	4021.5	2169.9	1974.7	2109.7	2352.1	2340.3	2145.0	2007.5	1959.0	1947.2
57.5°	8775.4	4203.6	2078.2	1837.1	2007.5	2281.3	2244.6	2099.2	1965.5	1928.8	1924.9
60°	9603.6	4472.2	1945.9	1690.4	1883.0	2172.6	2164.7	2032.4	1898.7	1872.5	1867.2
62.5°	10845.8	4916.4	1763.7	1543.6	1744.1	1987.8	2059.9	1941.9	1827.9	1826.6	1829.2
65°	12772.0	5584.7	1565.9	1415.2	1603.9	1831.9	1938.0	1848.9	1755.9	1782.1	1786.0
67.5°	15004.8	6139.0	1371.9	1289.4	1461.0	1683.8	1827.9	1755.9	1660.2	1728.4	1729.7
70°	15747.8	5643.7	1201.6	1164.9	1313.0	1541.0	1708.7	1653.7	1556.7	1624.8	1618.3
72°	14655.0	4556.1	1091.5	1070.6	1201.6	1423.0	1602.6	1558.0	1462.4	1508.2	1491.2
72.5°	14310.3	4343.8	1064.0	1047.0	1171.5	1392.9	1575.0	1534.4	1438.8	1478.1	1462.4
75°	12765.4	3772.5	914.6	918.6	1022.1	1246.1	1420.4	1407.3	1309.0	1313.0	1307.7
77.5°	9258.9	2766.1	770.5	796.7	870.1	1095.5	1264.5	1256.6	1149.2	1129.5	1125.6
80°	4296.6	1411.2	627.7	639.5	715.5	915.9	1078.4	1067.9	981.5	956.6	942.1
82.5°	1471.5	670.9	471.7	479.6	554.3	737.7	935.6	929.0	857.0	808.5	778.3
85°	525.5	334.1	330.2	322.3	395.7	580.5	815.0	779.7	673.5	573.9	571.3
87.5°	170.3	142.8	170.3	169.0	230.6	393.1	592.3	504.5	488.8	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)