

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: P317450

Luminaire Tested: **GAN-SA6C-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6C-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44073 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

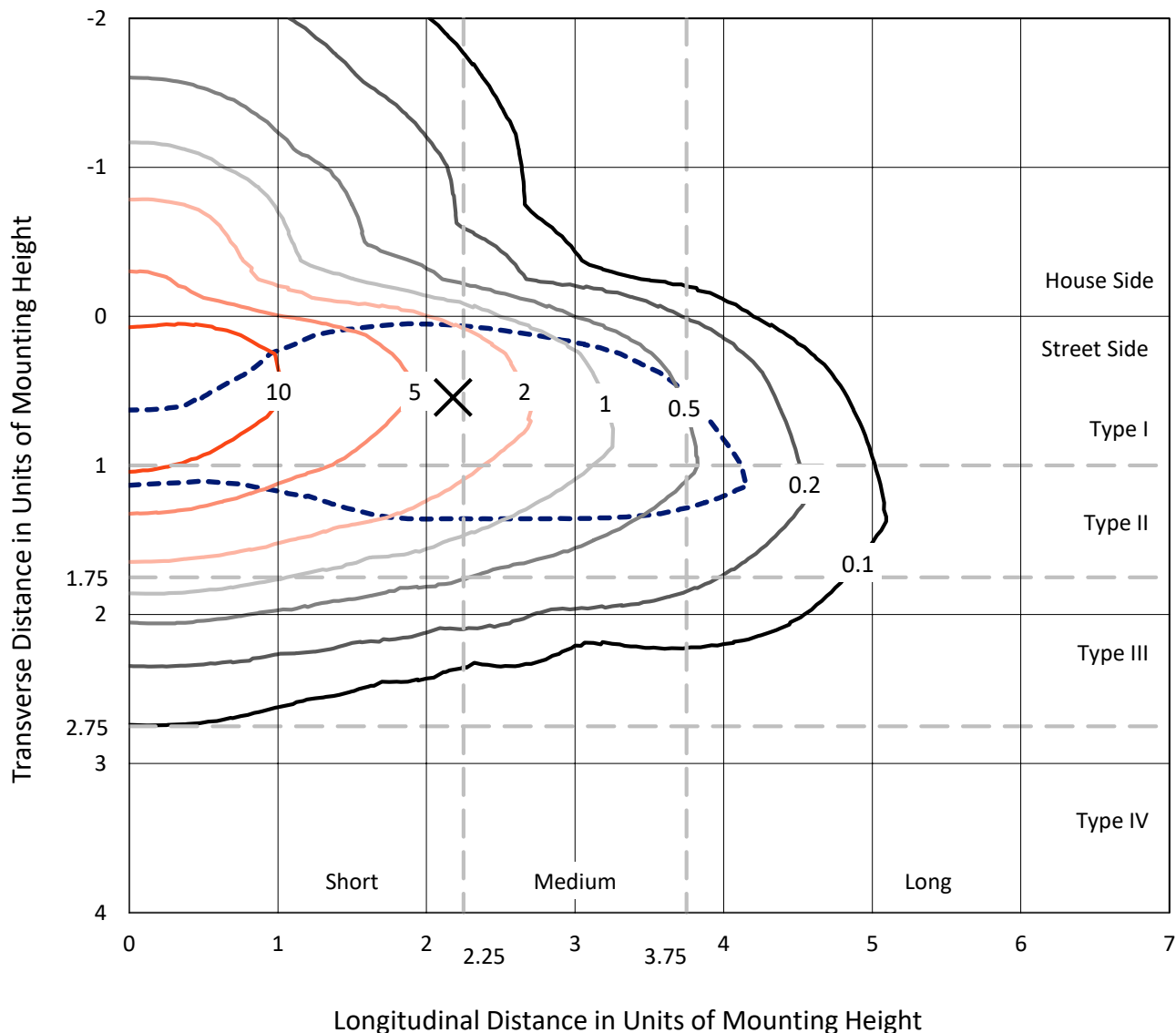
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

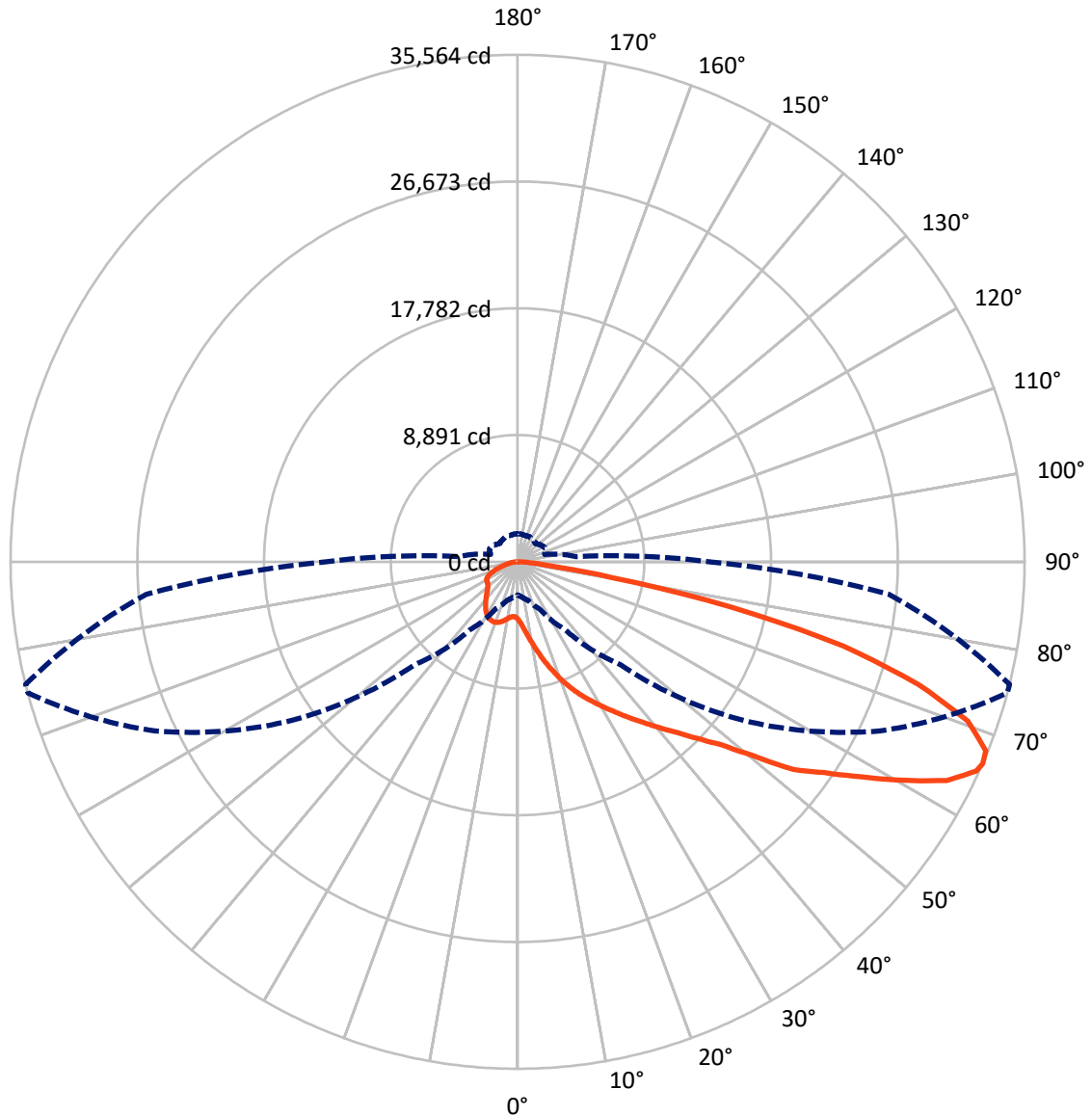
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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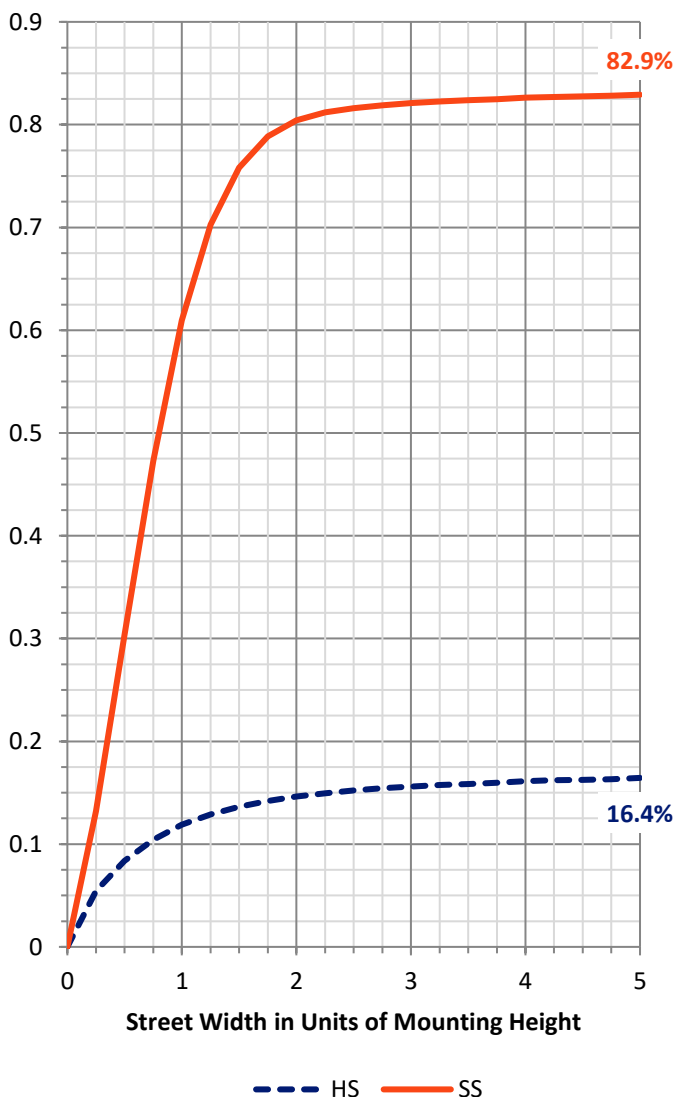
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7416.0	0.0	7416.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	36657.0	0.0	36657.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	44073.0	0.0	44073.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.7	1.1
10°-20°	1922.0	4.4
20°-30°	3734.9	8.5
30°-40°	6096.2	13.8
40°-50°	8328.9	18.9
50°-60°	9701.5	22.0
60°-70°	8697.6	19.7
70°-80°	4395.4	10.0
80°-90°	709.8	1.6
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°	44073.0	100.0
0°-180°	44073.0	100.0

Coefficient of Utilization



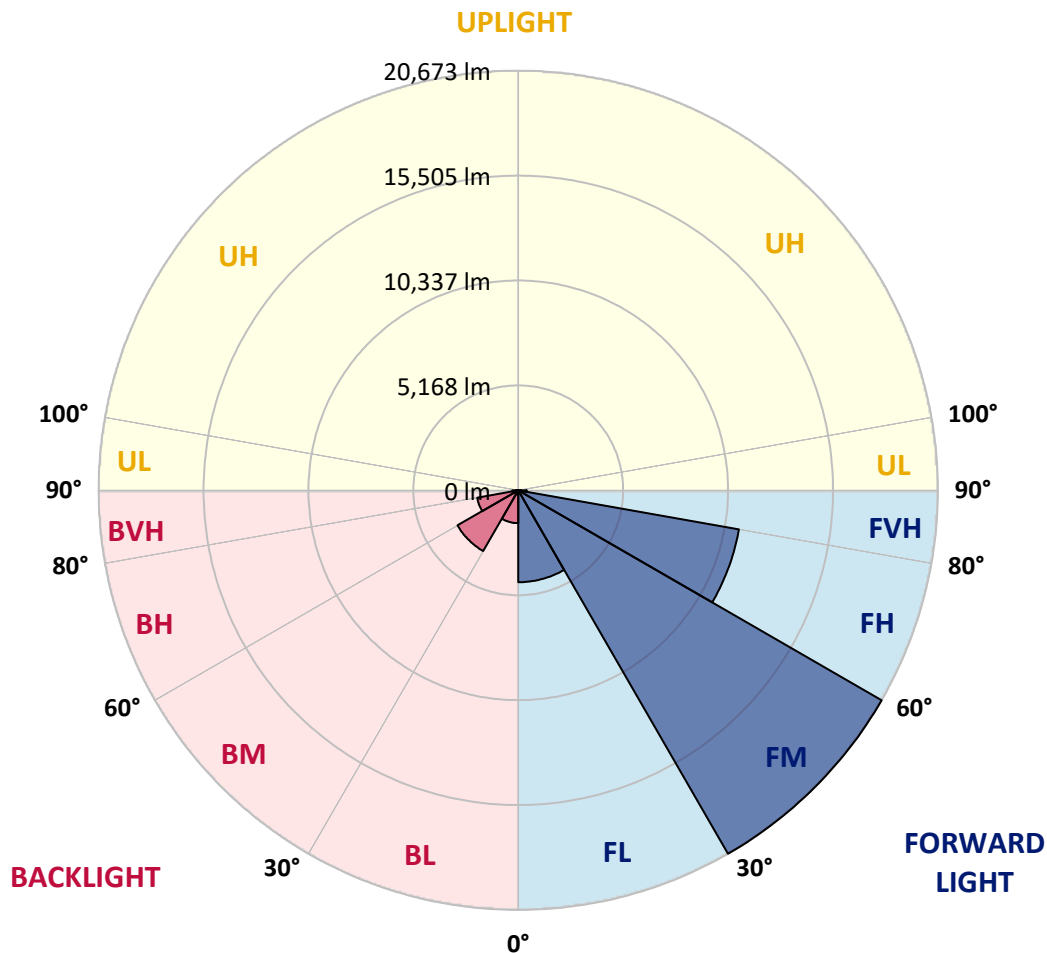
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4526.2	10.3			
FM (30°-60°)	20673.3	46.9			
FH (60°-80°)	11038.4	25.0			G4/12000
FVH (80°-90°)	419.2	1.0			G3/500
BL (0°-30°)	1617.5	3.7	B3/2500		
BM (30°-60°)	3453.3	7.8	B3/5000		
BH (60°-80°)	2054.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	290.6	0.7			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4024.9	4024.9	4024.9	4024.9	4024.9	4024.9	4024.9	4024.9	4024.9	4024.9	4024.9
2.5°	5343.0	5262.2	5254.8	5136.6	5109.6	4883.7	4717.6	4544.1	4346.5	4307.6	4152.0
5°	6863.2	6855.7	6752.5	6559.5	6408.4	6022.3	5640.8	5236.8	4793.9	4722.1	4372.0
7.5°	8230.8	8218.8	8139.5	7931.5	7713.1	7238.8	6694.1	6074.7	5356.5	5250.3	4669.7
10°	9269.1	9264.7	9237.7	9085.1	8899.6	8444.7	7843.2	6997.9	6010.4	5865.2	5042.3
12.5°	10071.1	10080.1	10098.1	10044.2	9955.9	9568.4	8951.9	7976.4	6707.6	6564.0	5456.8
15°	10614.3	10641.2	10734.0	10810.3	10856.6	10618.7	10021.7	8977.4	7488.6	7316.6	5916.1
17.5°	10888.1	10918.0	11078.1	11308.5	11521.0	11497.0	11022.7	9932.0	8238.2	8072.2	6409.8
20°	11124.5	11146.9	11326.5	11603.3	11978.8	12144.9	11878.6	10850.7	9059.7	8862.2	6933.5
22.5°	11809.7	11838.2	11892.0	12049.1	12381.3	12686.5	12557.9	11720.0	9812.3	9628.2	7430.3
25°	13132.4	13166.8	13050.1	12917.0	12979.8	13192.3	13216.2	12513.0	10575.4	10367.4	7964.4
27.5°	14725.9	14775.3	14576.3	14233.6	13934.4	13852.1	13823.7	13162.3	11304.0	11063.1	8492.6
30°	16286.5	16371.7	16112.9	15668.5	15119.4	14733.4	14447.6	13798.2	12022.2	11791.8	8990.8
32.5°	17811.1	17776.7	17401.2	16967.2	16323.9	15840.6	15149.3	14480.5	12830.2	12565.3	9486.1
35°	18855.5	18867.5	18518.8	18004.1	17390.7	17019.6	16089.0	15216.7	13654.6	13410.7	10048.7
37.5°	19744.3	19688.9	19293.9	18813.6	18285.4	18126.8	17188.7	16027.6	14547.8	14281.5	10647.2
40°	20040.5	19976.2	19717.3	19371.7	18948.3	18934.8	18402.1	16946.3	15557.8	15294.5	11322.0
42.5°	19861.0	19778.7	19672.4	19578.2	19448.0	19507.8	19542.3	18023.6	16668.0	16373.2	12103.0
45°	19198.1	19073.9	19148.8	19353.7	19636.5	19974.7	20571.7	19216.1	17911.4	17664.5	13020.2
47.5°	18179.2	18067.0	18300.4	18738.8	19507.8	20363.7	21545.7	20532.8	19395.6	19150.2	14326.4
50°	16745.8	16778.7	17112.4	17909.9	19072.4	20543.2	22745.7	22275.9	21553.2	21324.3	16108.4
52.5°	14393.7	14399.7	15339.4	16648.6	18300.4	20450.5	23411.5	24503.8	24499.3	24222.5	17805.1
55°	12209.2	12342.4	13086.0	14826.1	17049.5	20079.4	23876.8	25587.0	26433.9	26109.2	19386.7
57.5°	10075.6	10153.4	10858.1	12605.7	15264.5	19090.4	24354.1	26887.3	28663.3	28458.3	21352.7
60°	7648.7	7768.4	8497.1	10111.5	12981.3	17335.3	24399.0	28244.3	31328.1	31121.6	23547.7
62.5°	4964.5	5171.0	5853.3	7365.9	10219.3	14811.2	23357.6	29131.6	33853.7	33780.4	25495.8
65°	2853.3	3008.9	3483.2	4650.3	7050.2	11642.2	20881.4	28790.5	35408.3	35366.4	26224.4
66°	2331.1	2428.4	2792.0	3634.3	5817.3	10223.7	19442.0	28070.8	35562.4	35563.9	26140.6
67.5°	1864.3	1907.7	2070.8	2601.9	4292.7	8103.6	16870.0	26483.3	35370.9	35423.2	25600.5
70°	1542.6	1565.1	1615.9	1744.6	2343.1	4886.7	11974.3	22358.2	33448.2	33488.6	23492.3
72.5°	1384.0	1397.5	1416.9	1434.9	1653.3	2730.6	7313.6	17885.9	29326.1	29378.5	20279.9
75°	1253.8	1261.3	1258.3	1259.8	1387.0	1740.1	3779.5	13353.9	23712.3	23607.5	15535.4
77.5°	1101.2	1108.7	1093.7	1096.7	1226.9	1337.6	1880.8	9348.4	16002.2	15263.0	8752.9
80°	930.7	936.6	930.7	941.1	1068.3	1010.0	1093.7	5259.2	7075.7	6692.6	3112.2
82.5°	703.2	728.7	746.6	788.5	879.8	718.2	731.7	2048.3	2154.6	2051.3	954.6
85°	308.2	375.6	562.6	603.0	661.3	430.9	480.3	834.9	876.8	849.9	347.1
87.5°	80.8	88.3	278.3	350.1	366.6	194.5	249.9	380.0	401.0	380.0	115.2
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°	4024.9	4024.9	4024.9	4024.9	4024.9	4024.9	4024.9	4024.9	4024.9	4024.9	4024.9
2.5°	4069.7	3996.4	3864.8	3748.1	3659.8	3599.9	3540.1	3510.2	3492.2	3474.2	3477.2
5°	4199.9	4051.8	3825.9	3665.8	3576.0	3519.1	3489.2	3477.2	3469.8	3451.8	3451.8
7.5°	4395.9	4186.5	3875.2	3710.7	3640.3	3596.9	3579.0	3573.0	3564.0	3543.1	3546.1
10°	4642.8	4349.5	3978.5	3818.4	3754.0	3706.2	3680.7	3671.7	3655.3	3631.4	3634.3
12.5°	4933.1	4551.5	4114.6	3947.1	3869.3	3804.9	3763.0	3737.6	3709.2	3677.7	3679.2
15°	5250.3	4771.5	4261.3	4062.3	3956.0	3866.3	3798.9	3755.5	3710.7	3671.7	3670.3
17.5°	5572.0	4983.9	4373.5	4125.1	3981.5	3863.3	3772.0	3704.7	3649.3	3601.4	3596.9
20°	5919.1	5175.5	4436.3	4119.1	3933.6	3792.9	3671.7	3588.0	3526.6	3478.7	3471.3
22.5°	6272.2	5355.0	4446.8	4057.8	3827.4	3655.3	3528.1	3435.3	3372.5	3323.1	3305.2
25°	6595.4	5494.2	4403.4	3939.6	3679.2	3493.7	3369.5	3275.2	3224.4	3166.0	3148.1
27.5°	6890.1	5591.4	4316.6	3788.5	3513.1	3330.6	3213.9	3133.1	3077.7	3032.9	3017.9
30°	7155.0	5643.8	4174.5	3608.9	3342.6	3176.5	3077.7	3022.4	2974.5	2917.6	2907.2
32.5°	7406.3	5643.8	3991.9	3412.9	3173.5	3040.3	2982.0	2947.6	2893.7	2838.3	2823.4
35°	7657.7	5609.4	3776.5	3207.9	3017.9	2943.1	2940.1	2899.7	2817.4	2742.6	2723.1
37.5°	7922.5	5539.0	3534.1	3016.4	2890.7	2899.7	2925.1	2835.4	2718.7	2612.4	2584.0
40°	8221.8	5441.8	3282.7	2850.3	2784.5	2880.2	2884.7	2742.6	2515.2	2417.9	2392.5
42.5°	8573.4	5344.5	3049.3	2703.7	2700.7	2821.9	2808.4	2542.1	2405.9	2356.6	2343.1
45°	9035.7	5289.2	2827.9	2564.5	2634.9	2727.6	2678.3	2431.4	2374.5	2346.1	2334.1
47.5°	9764.4	5317.6	2624.4	2453.8	2569.0	2633.4	2435.9	2386.5	2346.1	2311.7	2299.7
50°	10677.1	5301.1	2459.8	2377.5	2494.2	2534.6	2326.6	2328.1	2307.2	2268.3	2250.3
52.5°	11363.9	5172.5	2353.6	2334.1	2428.4	2359.6	2257.8	2271.3	2260.8	2203.9	2184.5
55°	12026.7	5061.7	2299.7	2317.7	2380.5	2141.1	2177.0	2209.9	2199.5	2144.1	2135.1
57.5°	12851.1	5040.8	2266.8	2322.1	2340.1	2031.9	2099.2	2142.6	2135.1	2111.2	2106.7
60°	13861.1	5046.8	2236.9	2329.6	2295.2	1951.1	2025.9	2081.3	2085.7	2081.3	2078.3
62.5°	14416.2	4883.7	2162.1	2308.7	2215.9	1880.8	1949.6	2030.4	2031.9	2040.9	2039.4
65°	13944.9	4395.9	2022.9	2235.4	2082.8	1822.4	1883.8	1972.0	1949.6	1990.0	1990.0
66°	13487.0	4114.6	1954.1	2187.5	2025.9	1800.0	1862.8	1942.1	1913.7	1969.0	1969.0
67.5°	12551.9	3640.3	1829.9	2085.7	1945.1	1768.5	1838.9	1892.7	1853.8	1936.1	1930.1
70°	10843.2	2815.9	1580.0	1855.3	1811.9	1722.2	1805.9	1794.0	1737.1	1862.8	1838.9
72.5°	9142.0	2139.6	1268.8	1553.1	1609.9	1663.8	1759.6	1668.3	1596.5	1684.8	1632.4
75°	7093.6	1608.4	1002.5	1207.5	1360.1	1572.5	1704.2	1523.2	1419.9	1410.9	1382.5
77.5°	3834.8	1104.2	794.5	921.7	1080.3	1458.8	1666.8	1367.6	1211.9	1176.0	1153.6
80°	1518.7	718.2	577.5	698.7	755.6	1294.2	1577.0	1186.5	999.5	963.6	929.2
82.5°	626.9	424.9	372.6	468.3	492.3	1107.2	1415.4	972.5	772.1	1068.3	1134.1
85°	269.3	233.4	221.4	242.4	278.3	776.5	1126.7	742.1	833.4	743.6	591.0
87.5°	80.8	98.8	94.3	92.8	101.7	185.5	600.0	413.0	612.0	231.9	173.6
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)