

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: P317420

Luminaire Tested: **GAN-SA6D-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317420
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-SA6D-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44029 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

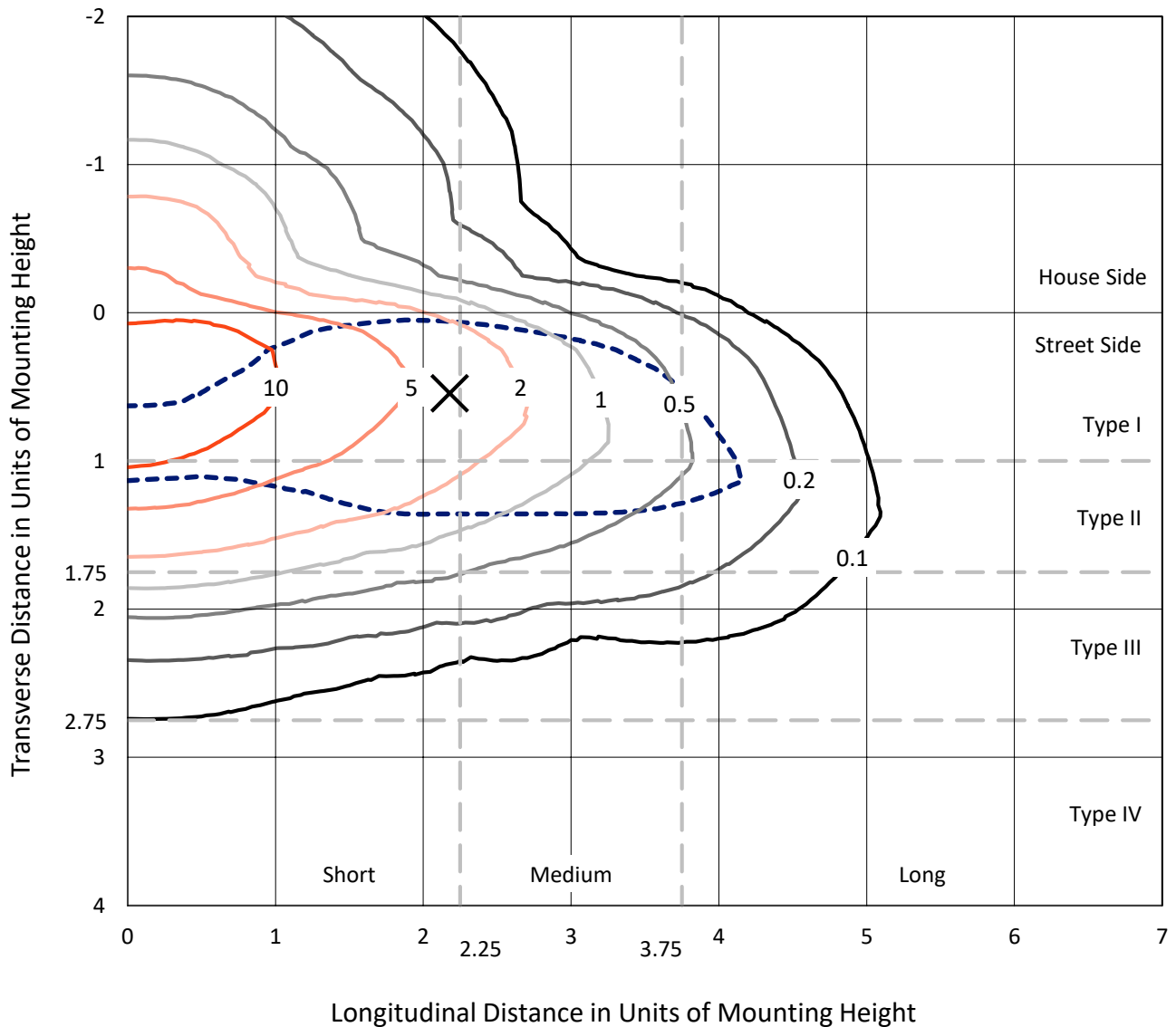
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

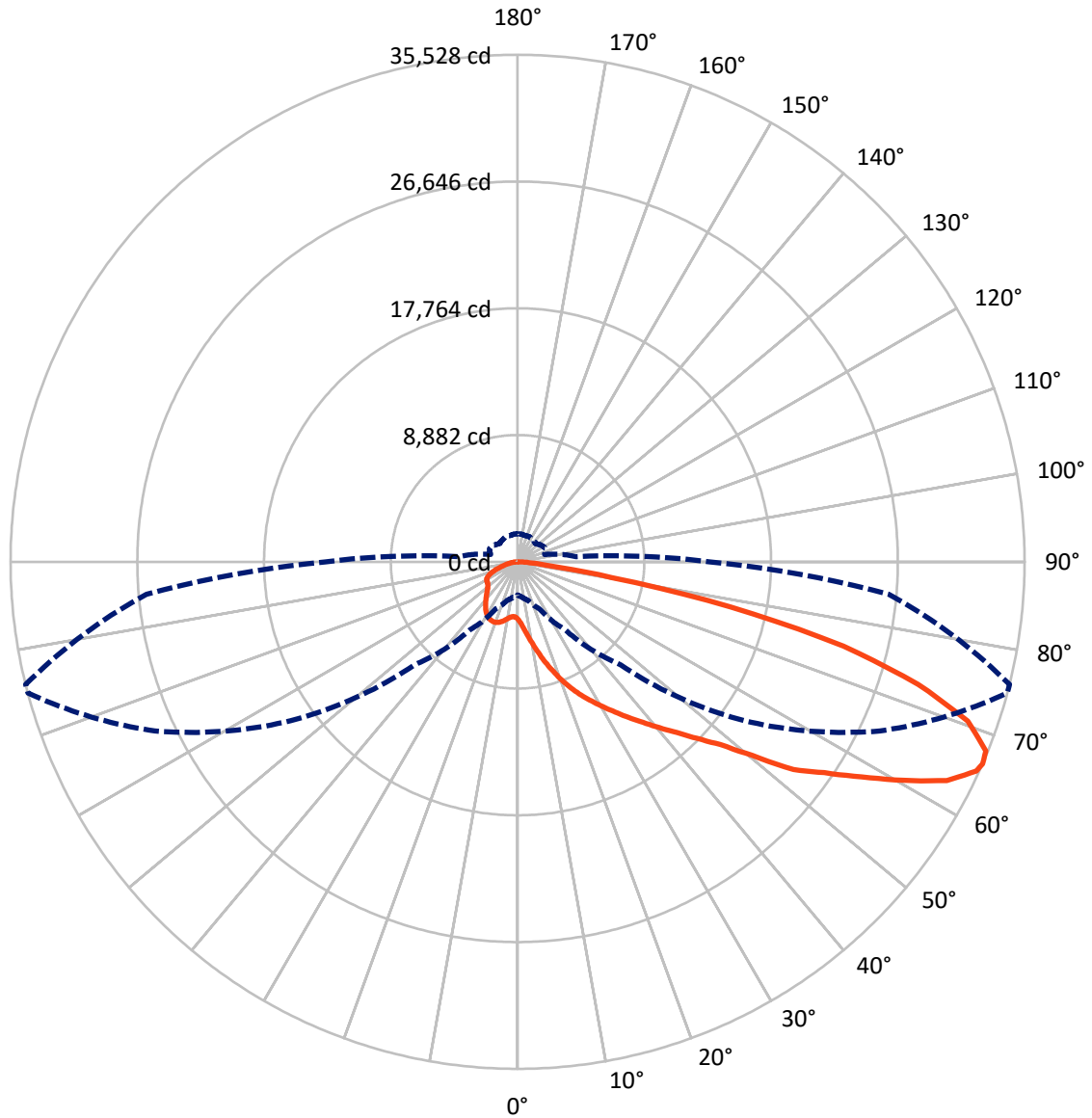
✕ Max cd
 - - - 1/2 Max cd



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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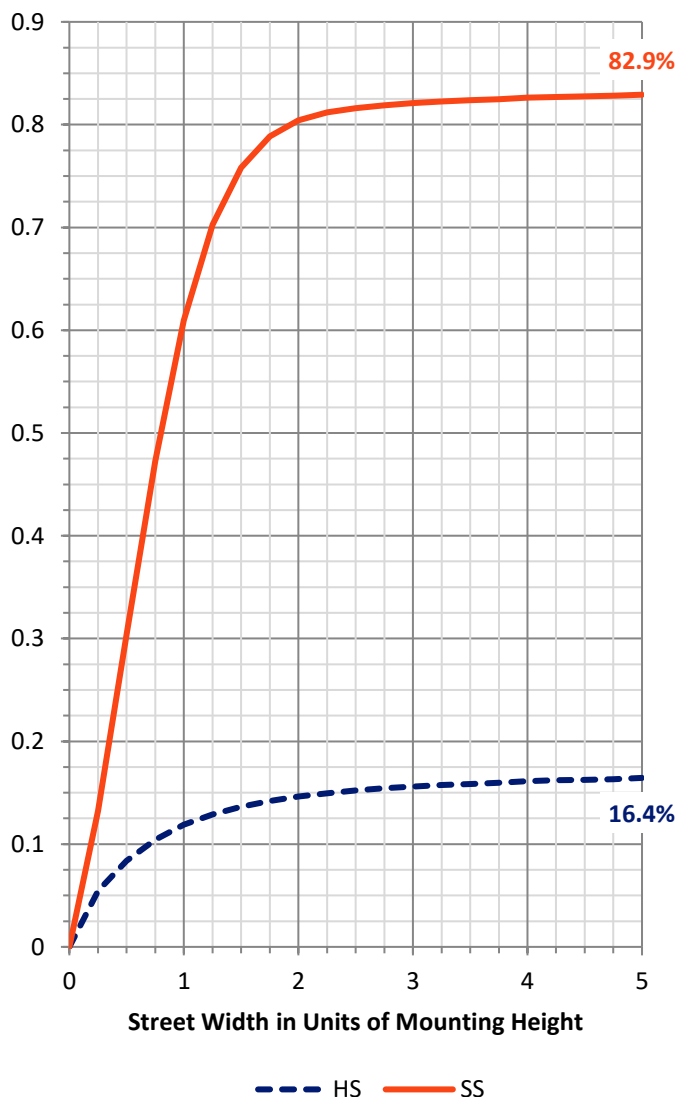
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7408.6	0.0	7408.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	36620.4	0.0	36620.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	44029.0	0.0	44029.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.2	1.1
10°-20°	1920.1	4.4
20°-30°	3731.2	8.5
30°-40°	6090.1	13.8
40°-50°	8320.6	18.9
50°-60°	9691.8	22.0
60°-70°	8688.9	19.7
70°-80°	4391.0	10.0
80°-90°	709.1	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°	44029.0	100.0
0°-180°	44029.0	100.0

Coefficient of Utilization

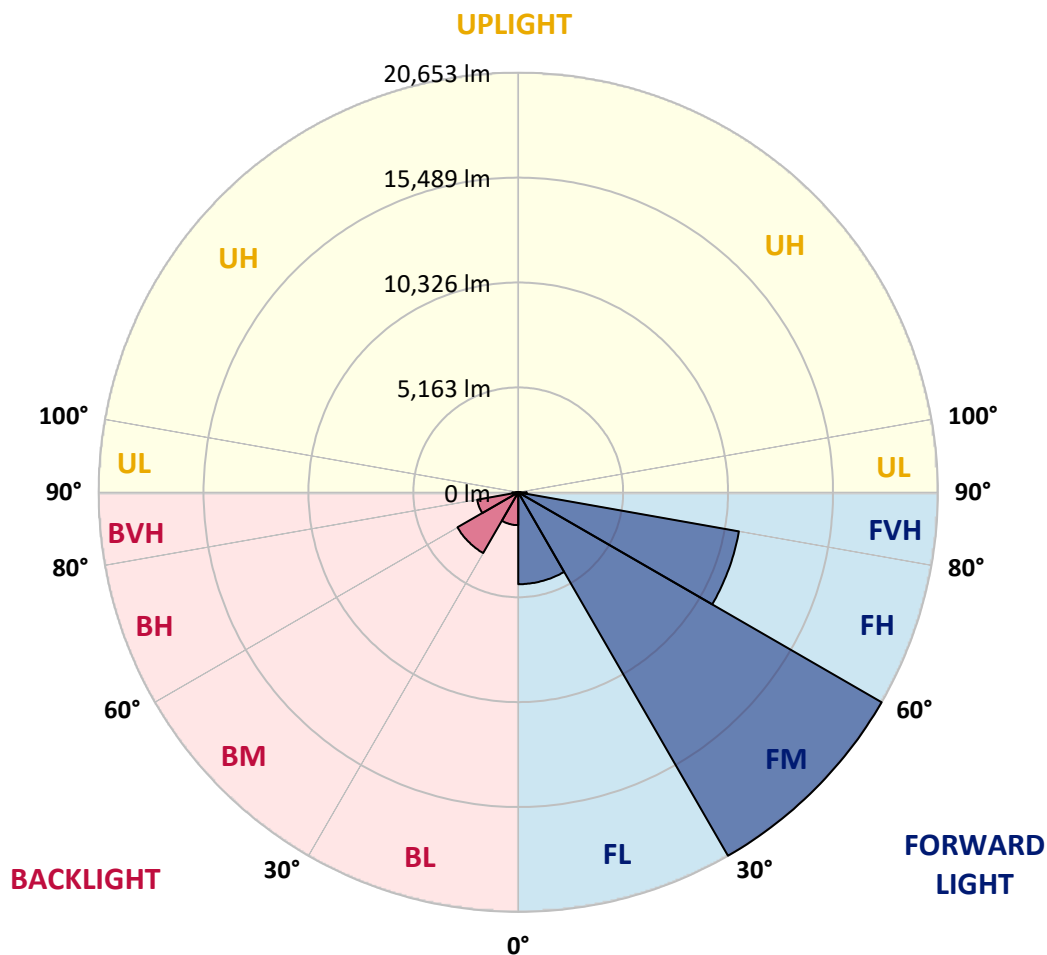


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4521.7	10.3			
FM (30°-60°)	20652.7	46.9			
FH (60°-80°)	11027.4	25.0			G4/12000
FVH (80°-90°)	418.8	1.0			G3/500
BL (0°-30°)	1615.8	3.7	B3/2500		
BM (30°-60°)	3449.9	7.8	B3/5000		
BH (60°-80°)	2052.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	290.3	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°	4020.8	4020.8	4020.8	4020.8	4020.8	4020.8	4020.8	4020.8	4020.8	4020.8	4020.8
2.5°	5337.7	5257.0	5249.5	5131.4	5104.5	4878.8	4712.9	4539.5	4342.2	4303.3	4147.9
5°	6856.4	6848.9	6745.7	6552.9	6402.0	6016.3	5635.2	5231.6	4789.1	4717.4	4367.6
7.5°	8222.5	8210.6	8131.4	7923.6	7705.4	7231.5	6687.5	6068.6	5351.2	5245.0	4665.1
10°	9259.9	9255.4	9228.5	9076.0	8890.7	8436.3	7835.4	6990.9	6004.4	5859.4	5037.3
12.5°	10061.1	10070.0	10088.0	10034.2	9946.0	9558.8	8943.0	7968.4	6700.9	6557.4	5451.3
15°	10603.7	10630.6	10723.2	10799.5	10845.8	10608.1	10011.7	8968.4	7481.2	7309.3	5910.2
17.5°	10877.2	10907.1	11067.0	11297.2	11509.5	11485.6	11011.7	9922.1	8230.0	8064.1	6403.5
20°	11113.4	11135.8	11315.2	11591.7	11966.9	12132.8	11866.7	10839.8	9050.6	8853.3	6926.6
22.5°	11798.0	11826.4	11880.2	12037.1	12368.9	12673.9	12545.3	11708.3	9802.5	9618.6	7422.9
25°	13119.3	13153.7	13037.1	12904.1	12966.8	13179.1	13203.0	12500.5	10564.8	10357.0	7956.5
27.5°	14711.2	14760.5	14561.7	14219.4	13920.5	13838.3	13809.9	13149.2	11292.7	11052.1	8484.1
30°	16270.2	16355.4	16096.8	15652.9	15104.3	14718.7	14433.2	13784.5	12010.2	11780.0	8981.9
32.5°	17793.3	17759.0	17383.8	16950.3	16307.6	15824.8	15134.2	14466.1	12817.4	12552.8	9476.6
35°	18836.7	18848.6	18500.4	17986.2	17373.3	17002.6	16072.9	15201.5	13641.0	13397.3	10038.6
37.5°	19724.5	19669.2	19274.6	18794.8	18267.2	18108.7	17171.5	16011.6	14533.3	14267.3	10636.5
40°	20020.5	19956.2	19697.6	19352.4	18929.3	18915.9	18383.8	16929.4	15542.3	15279.2	11310.7
42.5°	19841.1	19758.9	19652.8	19558.6	19428.6	19488.4	19522.8	18005.6	16651.4	16356.9	12090.9
45°	19179.0	19054.9	19129.6	19334.4	19616.9	19954.7	20551.1	19196.9	17893.5	17646.9	13007.2
47.5°	18161.0	18048.9	18282.1	18720.1	19488.4	20343.4	21524.2	20512.3	19376.3	19131.1	14312.1
50°	16729.1	16762.0	17095.3	17892.0	19053.4	20522.7	22723.0	22253.6	21531.7	21303.0	16092.3
52.5°	14379.4	14385.3	15324.0	16631.9	18282.1	20430.1	23388.1	24479.3	24474.8	24198.3	17787.4
55°	12197.0	12330.1	13073.0	14811.3	17032.5	20059.4	23853.0	25561.5	26407.5	26083.1	19367.3
57.5°	10065.6	10143.3	10847.3	12593.2	15249.3	19071.3	24329.8	26860.4	28634.7	28429.9	21331.4
60°	7641.1	7760.7	8488.6	10101.4	12968.3	17318.0	24374.7	28216.1	31296.8	31090.5	23524.2
62.5°	4959.5	5165.8	5847.4	7358.6	10209.0	14796.4	23334.3	29102.5	33819.9	33746.7	25470.3
65°	2850.5	3005.9	3479.7	4645.6	7043.2	11630.5	20860.5	28761.7	35372.9	35331.1	26198.2
66°	2328.8	2426.0	2789.2	3630.7	5811.5	10213.5	19422.6	28042.7	35526.9	35528.4	26114.5
67.5°	1862.4	1905.8	2068.7	2599.3	4288.4	8095.5	16853.2	26456.8	35335.6	35387.9	25574.9
70°	1541.1	1563.5	1614.3	1742.9	2340.8	4881.8	11962.4	22335.8	33414.8	33455.2	23468.9
72.5°	1382.6	1396.1	1415.5	1433.5	1651.7	2727.9	7306.3	17868.1	29296.8	29349.1	20259.7
75°	1252.6	1260.1	1257.1	1258.6	1385.6	1738.4	3775.7	13340.5	23688.6	23583.9	15519.8
77.5°	1100.1	1107.6	1092.7	1095.6	1225.7	1336.3	1878.9	9339.1	15986.2	15247.8	8744.2
80°	929.7	935.7	929.7	940.2	1067.2	1008.9	1092.7	5254.0	7068.6	6686.0	3109.1
82.5°	702.5	727.9	745.9	787.7	878.9	717.5	730.9	2046.3	2152.4	2049.3	953.6
85°	307.9	375.2	562.0	602.4	660.7	430.5	479.8	834.1	875.9	849.0	346.8
87.5°	80.7	88.2	278.0	349.8	366.2	194.3	249.6	379.7	400.6	379.7	115.1
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°	4020.8	4020.8	4020.8	4020.8	4020.8	4020.8	4020.8	4020.8	4020.8	4020.8	4020.8
2.5°	4065.7	3992.4	3860.9	3744.3	3656.1	3596.3	3536.5	3506.7	3488.7	3470.8	3473.8
5°	4195.7	4047.7	3822.0	3662.1	3572.4	3515.6	3485.7	3473.8	3466.3	3448.4	3448.4
7.5°	4391.5	4182.3	3871.4	3706.9	3636.7	3593.3	3575.4	3569.4	3560.5	3539.5	3542.5
10°	4638.2	4345.2	3974.5	3814.6	3750.3	3702.5	3677.1	3668.1	3651.6	3627.7	3630.7
12.5°	4928.1	4547.0	4110.5	3943.1	3865.4	3801.1	3759.3	3733.9	3705.5	3674.1	3675.6
15°	5245.0	4766.7	4257.0	4058.2	3952.1	3862.4	3795.1	3751.8	3706.9	3668.1	3666.6
17.5°	5566.4	4979.0	4369.1	4121.0	3977.5	3859.4	3768.2	3701.0	3645.7	3597.8	3593.3
20°	5913.2	5170.3	4431.9	4115.0	3929.7	3789.2	3668.1	3584.4	3523.1	3475.3	3467.8
22.5°	6265.9	5349.7	4442.4	4053.7	3823.5	3651.6	3524.6	3431.9	3369.1	3319.8	3301.9
25°	6588.8	5488.7	4399.0	3935.6	3675.6	3490.2	3366.1	3272.0	3221.2	3162.9	3144.9
27.5°	6883.3	5585.8	4312.3	3784.7	3509.6	3327.3	3210.7	3130.0	3074.7	3029.8	3014.9
30°	7147.8	5638.1	4170.3	3605.3	3339.2	3173.3	3074.7	3019.4	2971.5	2914.7	2904.3
32.5°	7398.9	5638.1	3988.0	3409.5	3170.3	3037.3	2979.0	2944.6	2890.8	2835.5	2820.6
35°	7650.1	5603.8	3772.7	3204.7	3014.9	2940.1	2937.2	2896.8	2814.6	2739.9	2720.4
37.5°	7914.6	5533.5	3530.6	3013.4	2887.8	2896.8	2922.2	2832.5	2715.9	2609.8	2581.4
40°	8213.6	5436.4	3279.5	2847.5	2781.7	2877.4	2881.9	2739.9	2512.7	2415.5	2390.1
42.5°	8564.8	5339.2	3046.3	2701.0	2698.0	2819.1	2805.6	2539.6	2403.5	2354.2	2340.8
45°	9026.7	5283.9	2825.1	2562.0	2632.2	2724.9	2675.6	2428.9	2372.1	2343.7	2331.8
47.5°	9754.6	5312.3	2621.8	2451.4	2566.5	2630.7	2433.4	2384.1	2343.7	2309.4	2297.4
50°	10666.4	5295.9	2457.3	2375.1	2491.7	2532.1	2324.3	2325.8	2304.9	2266.0	2248.1
52.5°	11352.5	5167.3	2351.2	2331.8	2426.0	2357.2	2255.6	2269.0	2258.5	2201.7	2182.3
55°	12014.7	5056.7	2297.4	2315.3	2378.1	2139.0	2174.8	2207.7	2197.3	2142.0	2133.0
57.5°	12838.3	5035.8	2264.5	2319.8	2337.8	2029.9	2097.1	2140.5	2133.0	2109.1	2104.6
60°	13847.2	5041.7	2234.6	2327.3	2292.9	1949.1	2023.9	2079.2	2083.7	2079.2	2076.2
62.5°	14401.8	4878.8	2159.9	2306.4	2213.7	1878.9	1947.6	2028.4	2029.9	2038.8	2037.3
65°	13930.9	4391.5	2020.9	2233.1	2080.7	1820.6	1881.9	1970.1	1947.6	1988.0	1988.0
66°	13473.6	4110.5	1952.1	2185.3	2023.9	1798.2	1860.9	1940.2	1911.8	1967.1	1967.1
67.5°	12539.3	3636.7	1828.1	2083.7	1943.2	1766.8	1837.0	1890.8	1852.0	1934.2	1928.2
70°	10832.4	2813.1	1578.4	1853.5	1810.1	1720.4	1804.1	1792.2	1735.4	1860.9	1837.0
72.5°	9132.8	2137.5	1267.5	1551.5	1608.3	1662.1	1757.8	1666.6	1594.9	1683.1	1630.8
75°	7086.5	1606.8	1001.5	1206.3	1358.7	1571.0	1702.5	1521.6	1418.5	1409.5	1381.1
77.5°	3831.0	1103.1	793.7	920.8	1079.2	1457.4	1665.1	1366.2	1210.7	1174.9	1152.4
80°	1517.2	717.5	577.0	698.0	754.8	1292.9	1575.5	1185.3	998.5	962.6	928.2
82.5°	626.3	424.5	372.2	467.9	491.8	1106.1	1414.0	971.6	771.3	1067.2	1133.0
85°	269.1	233.2	221.2	242.1	278.0	775.8	1125.5	741.4	832.6	742.9	590.4
87.5°	80.7	98.7	94.2	92.7	101.6	185.3	599.4	412.5	611.3	231.7	173.4
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)