

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: P318057

Luminaire Tested: **GAN-SA3D-730-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318057
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-SA3D-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21168 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

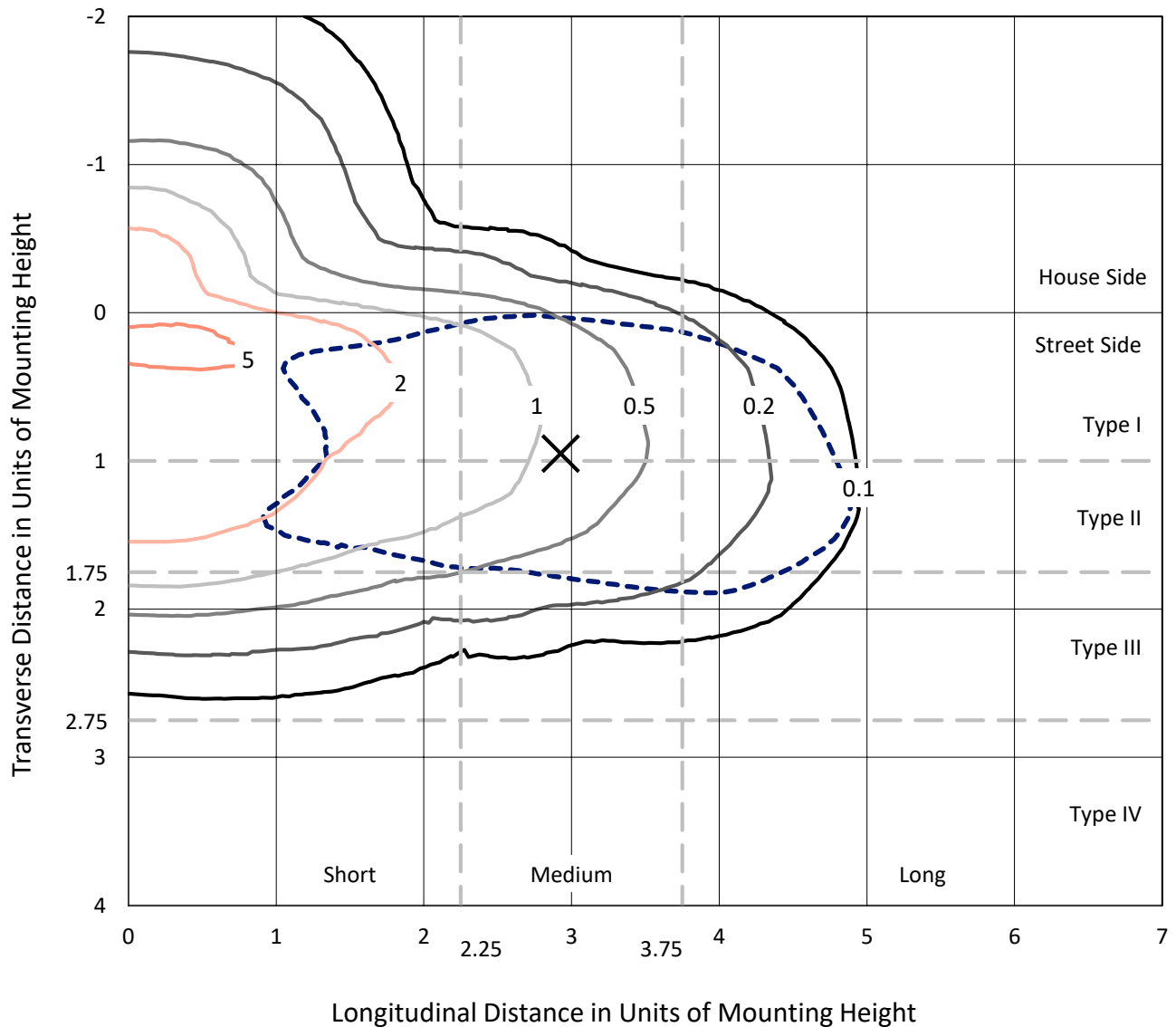
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

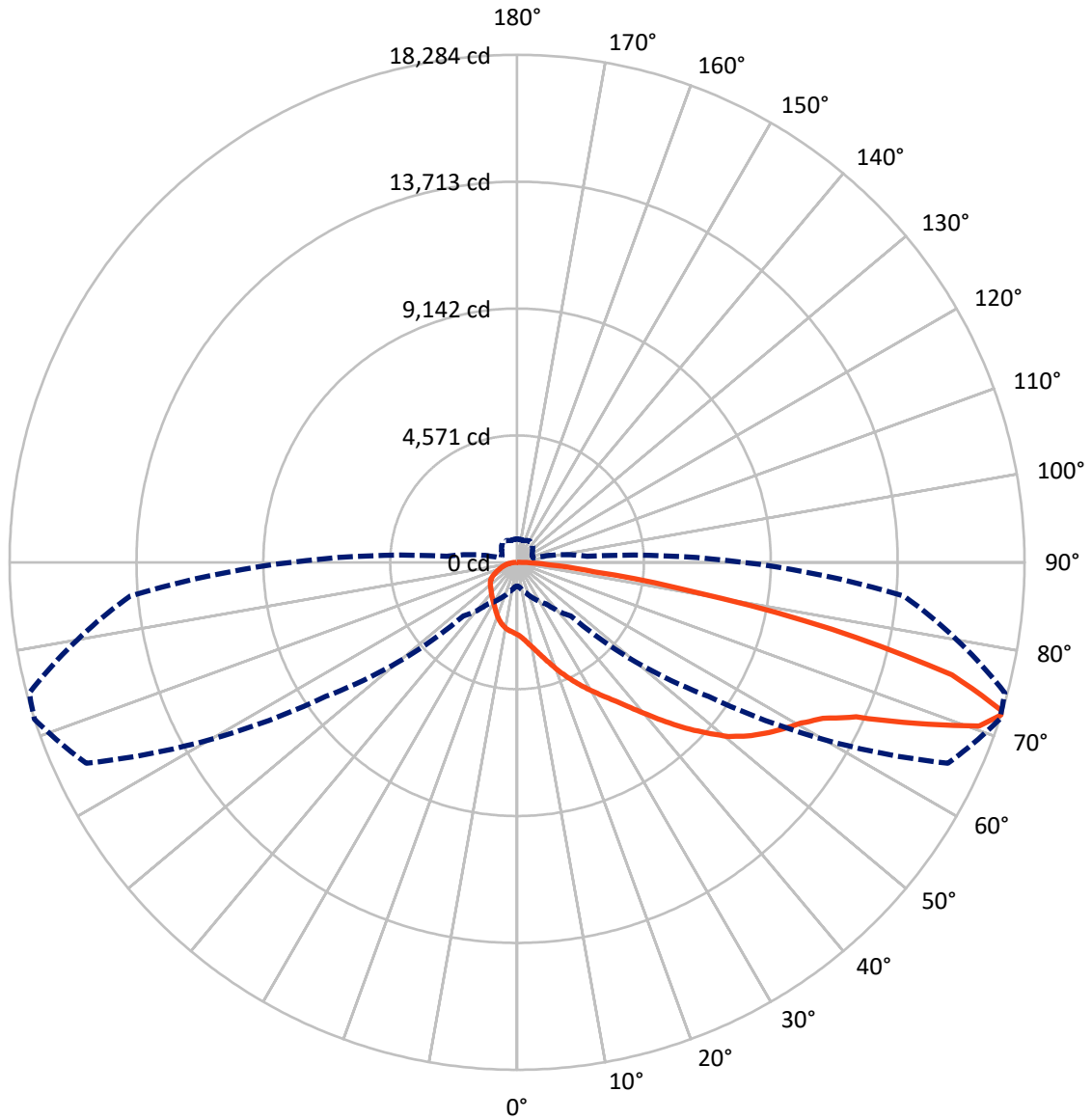
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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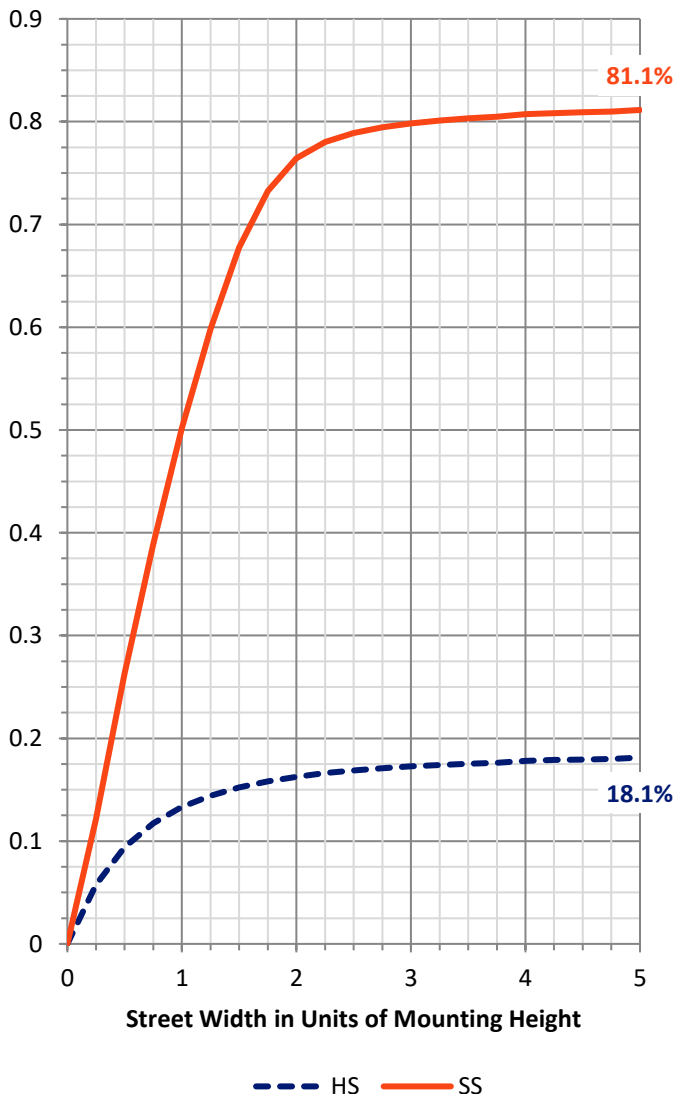
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3926.8	0.0	3926.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	17241.2	0.0	17241.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	21168.0	0.0	21168.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.9	1.2
10°-20°	843.3	4.0
20°-30°	1477.7	7.0
30°-40°	2190.9	10.4
40°-50°	3204.4	15.1
50°-60°	4409.2	20.8
60°-70°	4908.8	23.2
70°-80°	3326.2	15.7
80°-90°	546.7	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°	21168.0	100.0
0°-180°	21168.0	100.0

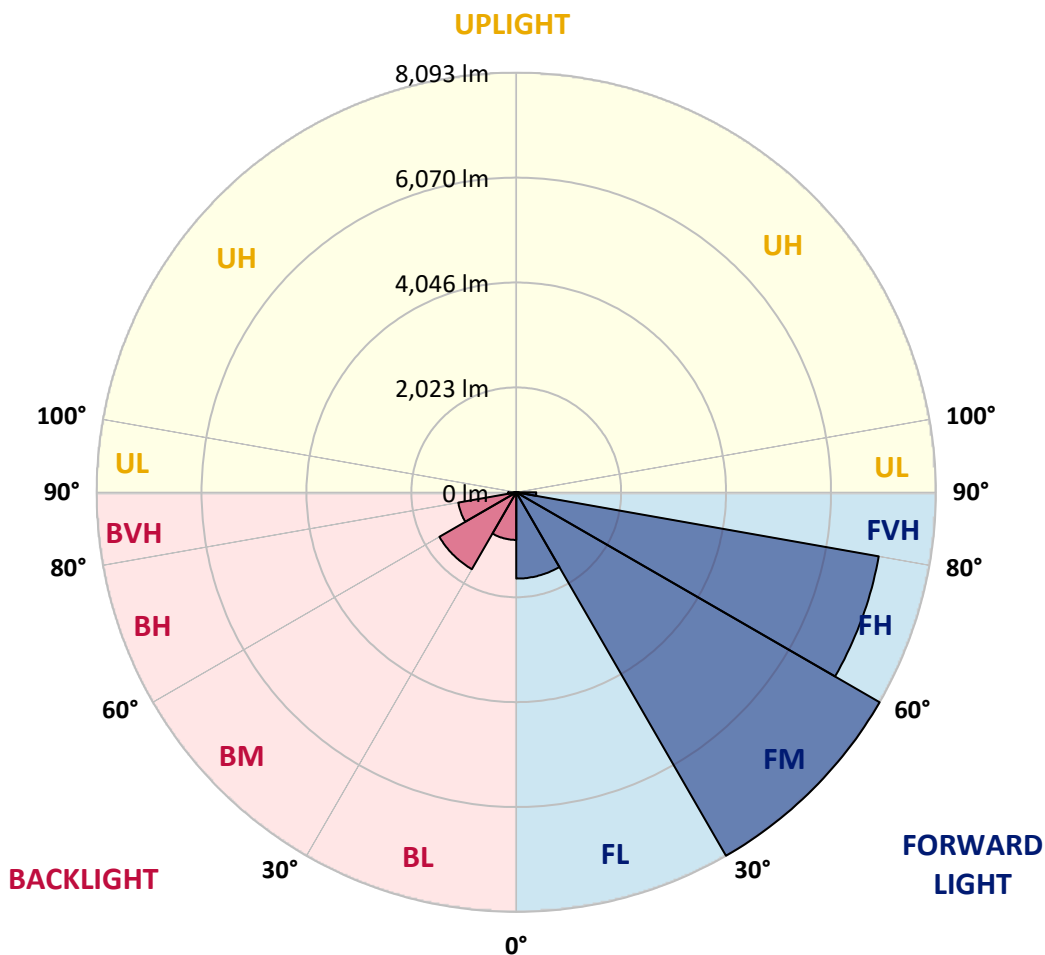


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1663.9	7.9			
FM (30°-60°)	8092.8	38.2			
FH (60°-80°)	7098.9	33.5			G3/7500
FVH (80°-90°)	385.6	1.8			G3/500
BL (0°-30°)	917.9	4.3	B2/1000		
BM (30°-60°)	1711.7	8.1	B2/2500		
BH (60°-80°)	1136.1	5.4	B3/2500		G3/2500
BVH (80°-90°)	161.1	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2604.2	2604.2	2604.2	2604.2	2604.2	2604.2	2604.2	2604.2	2604.2	2604.2	2604.2
2.5°	2876.8	2872.4	2857.1	2857.1	2828.0	2803.2	2756.5	2725.2	2688.0	2674.9	2631.2
5°	3155.2	3156.7	3137.7	3124.6	3081.6	3029.1	2949.7	2877.5	2805.4	2776.2	2686.6
7.5°	3389.2	3386.3	3381.2	3370.2	3330.2	3276.2	3169.1	3061.9	2955.5	2911.8	2757.3
10°	3539.3	3545.9	3550.3	3555.4	3538.6	3500.0	3398.7	3268.2	3129.0	3069.2	2841.8
12.5°	3615.1	3626.8	3647.2	3682.2	3709.9	3705.5	3631.9	3493.4	3328.0	3252.9	2947.5
15°	3659.6	3674.9	3707.0	3769.7	3847.7	3892.1	3872.4	3747.1	3562.7	3470.1	3076.5
17.5°	3687.3	3699.7	3749.3	3833.1	3949.0	4067.0	4118.8	4013.8	3828.0	3722.3	3224.5
20°	3706.3	3715.7	3777.7	3876.1	4026.2	4214.3	4358.6	4332.3	4120.2	3983.2	3379.0
22.5°	3748.5	3756.5	3815.6	3914.7	4080.9	4323.6	4589.6	4629.0	4428.6	4273.3	3544.4
25°	3866.6	3866.6	3916.2	3985.4	4141.4	4418.3	4785.0	4959.2	4743.4	4562.7	3697.5
27.5°	4091.8	4089.6	4107.9	4131.9	4250.0	4514.6	4959.2	5250.7	5069.9	4872.4	3846.2
30°	4358.6	4373.2	4375.3	4363.7	4419.1	4634.8	5120.2	5558.3	5398.7	5185.8	3998.5
32.5°	4701.9	4711.4	4700.4	4661.8	4653.8	4805.4	5278.4	5880.4	5754.3	5513.1	4137.7
35°	5137.7	5119.5	5085.3	5006.5	4931.5	5033.5	5459.2	6202.6	6153.8	5908.9	4329.4
37.5°	5604.9	5605.7	5563.4	5384.8	5281.3	5325.1	5708.4	6567.8	6637.0	6379.7	4575.1
40°	5979.6	5999.2	6025.5	5790.8	5656.7	5717.2	6025.5	6991.2	7208.4	6938.0	4895.0
42.5°	6241.2	6263.8	6338.2	6190.9	6051.7	6164.0	6398.7	7443.1	7849.8	7582.3	5269.7
45°	6518.2	6530.6	6583.1	6519.7	6430.7	6683.6	6819.2	7911.0	8528.4	8268.9	5688.8
47.5°	6809.7	6822.9	6876.8	6834.5	6787.9	7169.1	7258.0	8352.0	9178.5	9023.3	6136.3
50°	7169.8	7178.5	7229.6	7153.0	7167.6	7535.0	7650.1	8756.5	9860.0	9701.1	6585.2
52.5°	7661.0	7663.2	7733.9	7664.7	7596.2	7803.2	7987.6	9137.7	10394.3	10319.2	7034.2
55°	8045.9	8069.2	8301.0	8286.4	8247.0	8046.6	8269.6	9500.7	10870.9	10906.7	7510.9
57.5°	7800.3	7891.4	8360.8	8691.7	9013.8	8652.3	8650.8	9909.6	11314.1	11483.2	8035.0
60°	6831.6	6955.5	7647.2	8381.2	9389.2	9706.2	9442.4	10408.8	11761.6	12054.6	8691.7
62.5°	4879.0	5083.1	6020.4	7192.4	8874.6	10404.5	11053.2	11201.1	12370.2	12716.4	9545.1
65°	2466.5	2621.0	3406.7	4818.5	7090.3	9948.2	12803.9	12935.8	13427.8	13735.4	10859.3
67.5°	1498.5	1556.8	1940.2	2680.0	4346.9	7749.2	13375.3	15827.2	15474.4	15637.7	12733.2
70°	1104.2	1147.2	1386.3	1779.9	2500.0	4547.4	11621.7	17890.6	17658.8	17640.6	14118.0
72°	860.1	891.4	1102.8	1438.0	1828.0	2728.1	8423.4	17128.9	18284.2	18192.3	13991.2
72.5°	815.6	843.3	1035.7	1353.5	1727.4	2473.0	7573.6	16615.1	18239.0	18197.4	13827.2
75°	642.1	661.8	766.8	1046.6	1352.0	1403.1	4150.1	12876.0	16180.0	16852.7	12436.5
77.5°	531.3	534.3	589.6	761.7	1053.9	992.0	2038.6	8933.6	11586.0	12325.7	8809.7
80°	432.9	436.6	462.8	534.3	797.4	734.0	967.9	5137.0	6486.9	6494.9	4189.5
82.5°	344.8	345.5	374.6	390.7	572.9	524.8	554.7	2411.8	2834.5	2726.7	1505.8
85°	242.7	237.6	365.9	320.7	374.6	336.7	306.1	954.8	1172.0	1121.0	471.6
87.5°	80.9	83.8	162.5	207.7	218.7	191.0	136.3	365.9	442.4	438.8	149.4
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°	2604.2	2604.2	2604.2	2604.2	2604.2	2604.2	2604.2	2604.2	2604.2	2604.2	2604.2
2.5°	2617.3	2594.0	2559.8	2521.9	2492.0	2461.4	2438.8	2427.1	2414.0	2403.1	2416.2
5°	2645.0	2601.3	2528.4	2457.0	2404.5	2357.9	2324.3	2306.8	2290.8	2279.9	2281.3
7.5°	2690.2	2619.5	2497.1	2392.8	2320.0	2269.7	2235.4	2223.8	2213.5	2210.6	2214.3
10°	2738.3	2634.1	2455.5	2317.0	2234.0	2192.4	2177.1	2185.1	2192.4	2199.0	2206.3
12.5°	2793.0	2647.2	2395.0	2228.1	2157.4	2141.4	2156.7	2191.7	2217.2	2232.5	2242.0
15°	2864.4	2658.9	2325.1	2139.2	2091.8	2110.0	2161.8	2222.3	2266.8	2295.2	2299.6
17.5°	2930.0	2658.2	2235.4	2049.6	2038.6	2091.8	2169.8	2255.1	2314.9	2354.9	2363.0
20°	2997.8	2638.5	2131.2	1962.1	1984.7	2072.1	2173.5	2276.2	2348.4	2395.0	2406.0
22.5°	3061.2	2604.2	2016.8	1882.6	1939.5	2045.9	2159.6	2263.8	2336.0	2373.9	2385.6
25°	3104.2	2544.4	1900.9	1815.6	1899.4	2013.8	2114.4	2198.2	2252.2	2271.1	2274.0
27.5°	3126.1	2466.5	1791.5	1757.3	1857.9	1961.4	2030.6	2072.1	2087.5	2086.0	2083.1
30°	3129.0	2363.7	1697.5	1709.9	1809.8	1884.1	1916.9	1908.9	1889.2	1855.7	1858.6
32.5°	3119.5	2247.8	1618.8	1664.7	1748.5	1790.1	1791.5	1752.9	1700.4	1647.2	1632.6
35°	3122.4	2134.1	1549.6	1613.7	1674.2	1692.4	1675.6	1618.8	1547.4	1478.9	1464.3
37.5°	3154.5	2035.0	1489.8	1554.7	1591.8	1596.2	1572.2	1512.4	1459.9	1392.9	1387.0
40°	3231.0	1964.3	1432.9	1488.3	1509.5	1511.7	1477.4	1435.1	1439.5	1403.8	1403.1
42.5°	3368.8	1933.7	1382.6	1419.1	1432.2	1436.6	1410.3	1383.4	1421.3	1398.0	1389.9
45°	3546.6	1941.0	1340.4	1351.3	1375.4	1395.8	1379.7	1346.9	1361.5	1260.2	1226.7
47.5°	3752.2	1987.6	1306.8	1293.0	1334.5	1373.2	1348.4	1298.8	1247.1	1146.5	1127.5
50°	3992.7	2059.8	1276.2	1235.4	1290.1	1342.6	1317.8	1247.1	1169.1	1120.3	1113.7
52.5°	4243.4	2147.9	1245.6	1172.0	1234.0	1319.2	1306.8	1235.4	1139.2	1091.1	1082.4
55°	4527.7	2236.9	1207.0	1098.4	1173.5	1308.3	1301.7	1193.1	1116.6	1089.6	1083.1
57.5°	4881.2	2338.2	1156.0	1021.9	1116.6	1268.9	1248.5	1167.6	1093.3	1072.9	1070.7
60°	5341.8	2487.6	1082.4	940.2	1047.4	1208.4	1204.1	1130.5	1056.1	1041.5	1038.6
62.5°	6032.8	2734.7	981.0	858.6	970.1	1105.7	1145.8	1080.2	1016.8	1016.0	1017.5
65°	7104.2	3106.4	871.0	787.2	892.1	1018.9	1078.0	1028.4	976.7	991.2	993.4
67.5°	8346.2	3414.7	763.1	717.2	812.7	936.6	1016.8	976.7	923.5	961.4	962.1
70°	8759.4	3139.2	668.4	648.0	730.3	857.1	950.4	919.8	865.9	903.8	900.1
72°	8151.6	2534.2	607.1	595.5	668.4	791.5	891.4	866.6	813.4	838.9	829.4
72.5°	7959.9	2416.2	591.8	582.4	651.6	774.8	876.1	853.5	800.3	822.2	813.4
75°	7100.6	2098.4	508.7	510.9	568.5	693.1	790.1	782.8	728.1	730.3	727.4
77.5°	5150.1	1538.6	428.6	443.1	484.0	609.3	703.3	699.0	639.2	628.3	626.1
80°	2389.9	785.0	349.1	355.7	398.0	509.5	599.9	594.0	545.9	532.1	524.1
82.5°	818.5	373.2	262.4	266.8	308.3	410.3	520.4	516.8	476.7	449.7	432.9
85°	292.3	185.9	183.7	179.3	220.1	322.9	453.4	433.7	374.6	319.2	317.8
87.5°	94.8	79.4	94.8	94.0	128.3	218.7	329.4	280.6	271.9	225.9	221.6
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)