

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: P318038

Luminaire Tested: **GAN-SA4B-730-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318038
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-SA4B-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20601 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

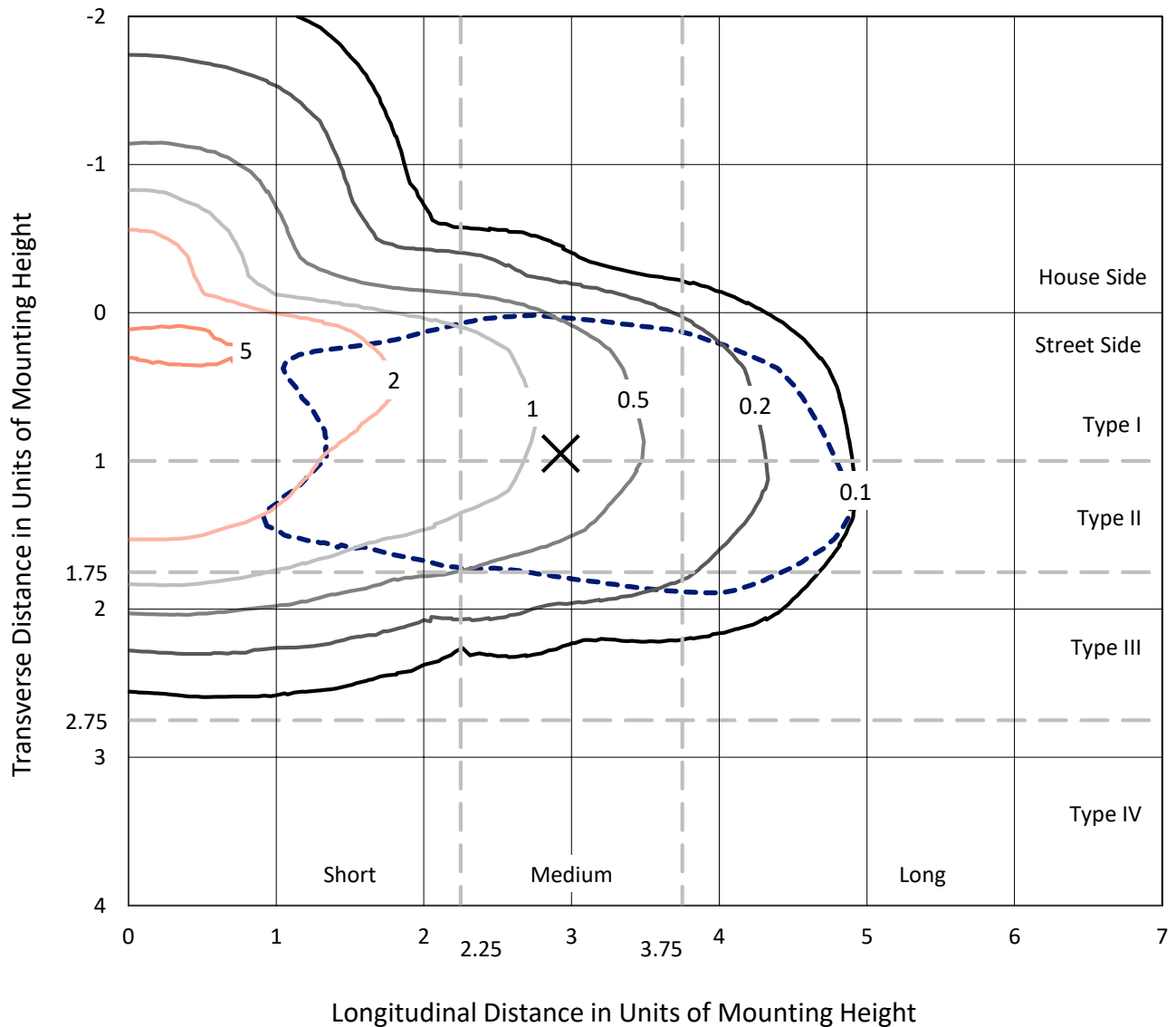
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

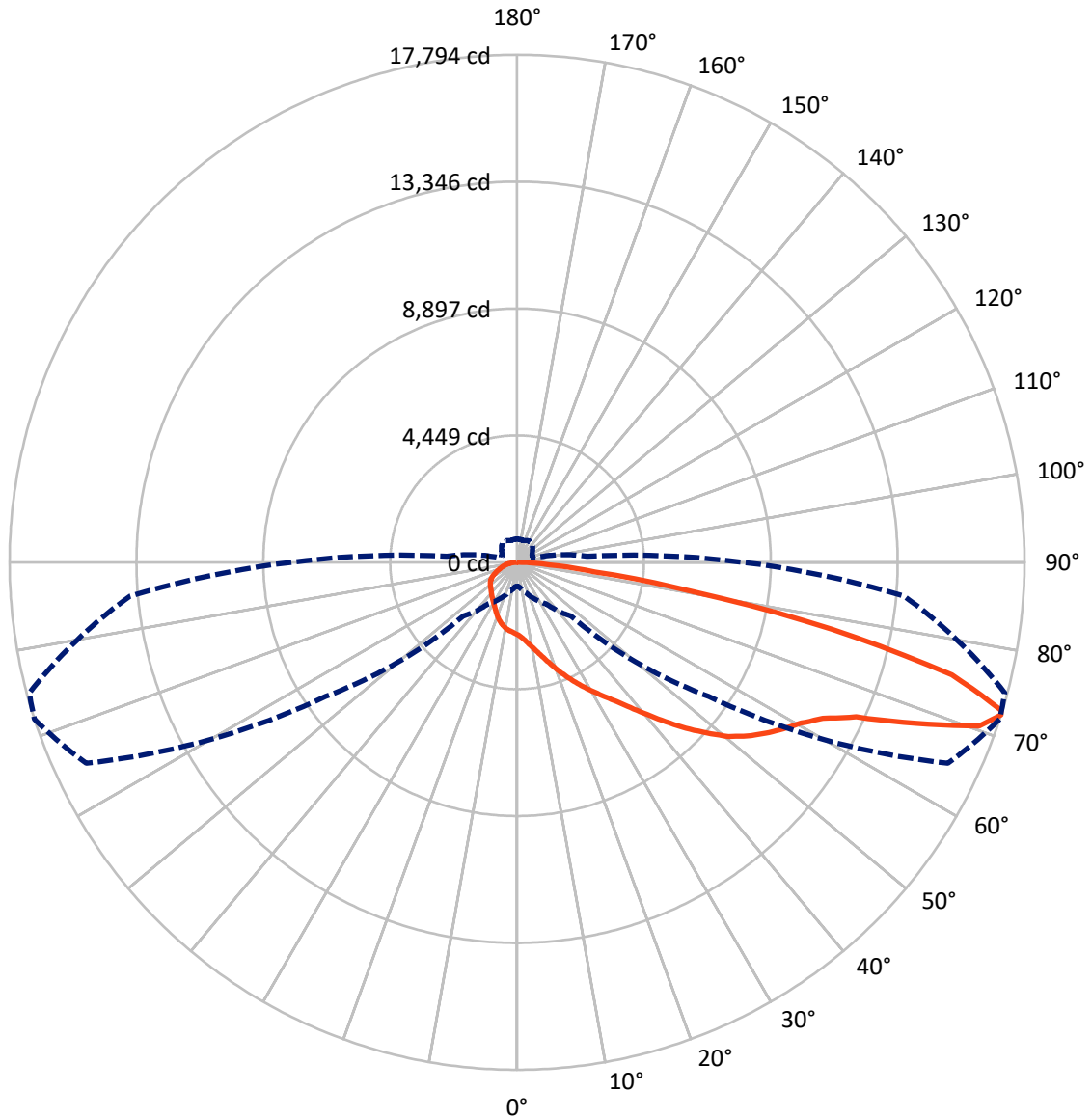
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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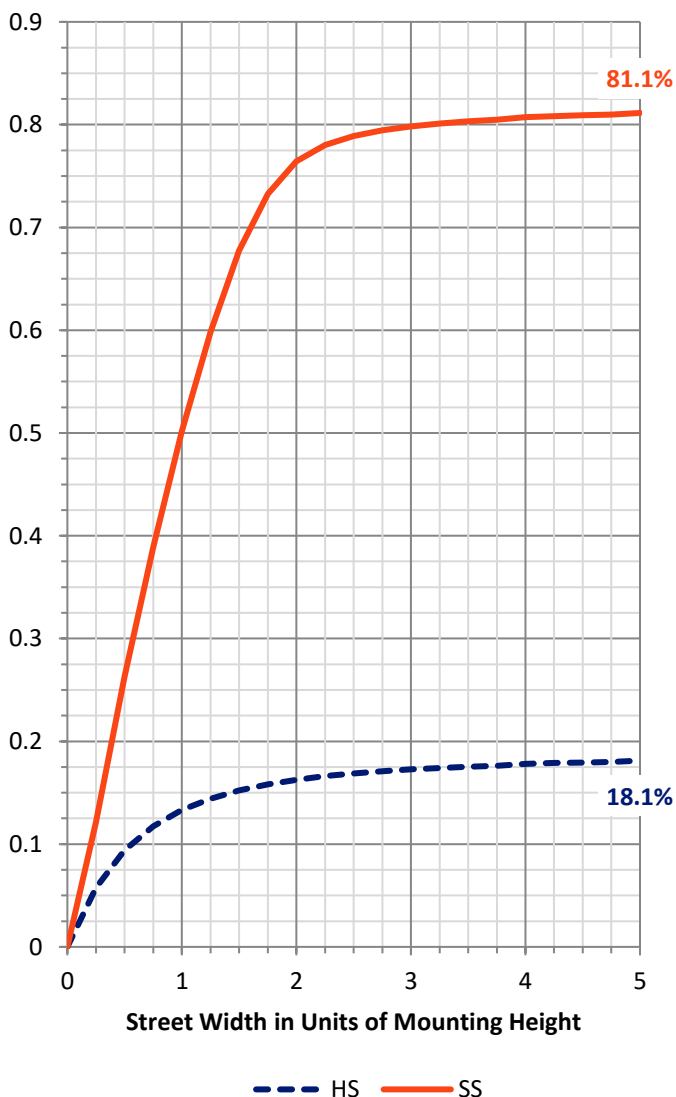
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3821.6	0.0	3821.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	16779.4	0.0	16779.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	20601.0	0.0	20601.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.0	1.2
10°-20°	820.7	4.0
20°-30°	1438.1	7.0
30°-40°	2132.2	10.4
40°-50°	3118.6	15.1
50°-60°	4291.1	20.8
60°-70°	4777.3	23.2
70°-80°	3237.1	15.7
80°-90°	532.0	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°	20601.0	100.0
0°-180°	20601.0	100.0

Coefficient of Utilization

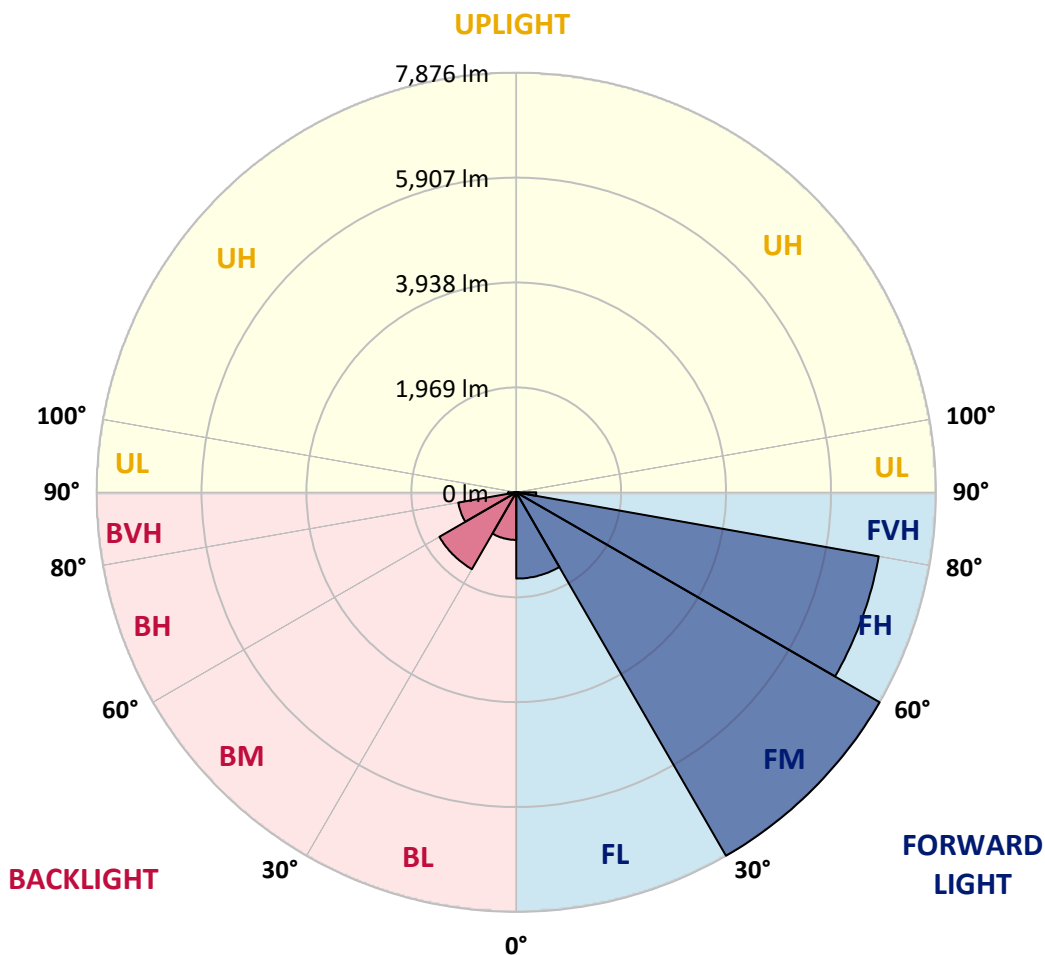


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1619.4	7.9			
FM (30°-60°)	7876.0	38.2			
FH (60°-80°)	6908.7	33.5			G3/7500
FVH (80°-90°)	375.3	1.8			G3/500
BL (0°-30°)	893.4	4.3	B2/1000		
BM (30°-60°)	1665.9	8.1	B2/2500		
BH (60°-80°)	1105.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	156.8	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°	2534.5	2534.5	2534.5	2534.5	2534.5	2534.5	2534.5	2534.5	2534.5	2534.5	2534.5
2.5°	2799.8	2795.5	2780.6	2780.6	2752.2	2728.1	2682.7	2652.2	2616.0	2603.3	2560.7
5°	3070.7	3072.1	3053.7	3040.9	2999.1	2948.0	2870.7	2800.5	2730.2	2701.9	2614.6
7.5°	3298.4	3295.6	3290.6	3280.0	3241.0	3188.5	3084.2	2979.9	2876.4	2833.8	2683.4
10°	3444.5	3450.9	3455.2	3460.1	3443.8	3406.2	3307.6	3180.7	3045.2	2987.0	2765.7
12.5°	3518.3	3529.7	3549.5	3583.6	3610.5	3606.3	3534.6	3399.9	3238.8	3165.8	2868.6
15°	3561.6	3576.5	3607.7	3668.7	3744.6	3787.9	3768.7	3646.7	3467.2	3377.2	2994.1
17.5°	3588.5	3600.6	3648.8	3730.4	3843.2	3958.1	4008.5	3906.3	3725.4	3622.6	3138.1
20°	3607.0	3616.2	3676.5	3772.3	3918.4	4101.4	4241.8	4216.3	4009.9	3876.5	3288.5
22.5°	3648.1	3655.9	3713.4	3809.8	3971.6	4207.8	4466.7	4505.0	4309.9	4158.8	3449.5
25°	3763.0	3763.0	3811.3	3878.7	4030.5	4300.0	4656.8	4826.3	4616.4	4440.4	3598.5
27.5°	3982.2	3980.1	3997.8	4021.2	4136.1	4393.6	4826.3	5110.1	4934.1	4741.9	3743.2
30°	4241.8	4256.0	4258.1	4246.8	4300.7	4510.7	4983.1	5409.4	5254.1	5046.9	3891.4
32.5°	4575.9	4585.2	4574.5	4536.9	4529.1	4676.7	5137.0	5722.9	5600.2	5365.4	4026.9
35°	5000.1	4982.4	4949.0	4872.4	4799.4	4898.7	5312.9	6036.5	5988.9	5750.6	4213.5
37.5°	5454.8	5455.5	5414.4	5240.6	5139.9	5182.4	5555.5	6391.8	6459.2	6208.8	4452.5
40°	5819.4	5838.6	5864.1	5635.7	5505.2	5564.0	5864.1	6804.0	7015.3	6752.2	4763.9
42.5°	6074.1	6096.0	6168.4	6025.1	5889.6	5998.9	6227.3	7243.7	7639.6	7379.2	5128.5
45°	6343.6	6355.7	6406.7	6345.0	6258.5	6504.6	6636.6	7699.1	8300.0	8047.4	5536.4
47.5°	6627.3	6640.1	6692.6	6651.5	6606.1	6977.0	7063.6	8128.3	8932.7	8781.6	5971.9
50°	6977.7	6986.3	7035.9	6961.4	6975.6	7333.1	7445.2	8522.0	9595.9	9441.3	6408.9
52.5°	7455.8	7458.0	7526.8	7459.4	7392.7	7594.2	7773.6	8893.0	10115.9	10042.8	6845.8
55°	7830.4	7853.1	8078.6	8064.5	8026.1	7831.1	8048.1	9246.2	10579.8	10614.5	7309.7
57.5°	7591.3	7680.0	8136.8	8458.8	8772.4	8420.5	8419.1	9644.1	11011.0	11175.6	7819.7
60°	6648.6	6769.2	7442.4	8156.7	9137.7	9446.2	9189.5	10130.0	11446.6	11731.7	8458.8
62.5°	4748.3	4946.9	5859.1	6999.7	8636.9	10125.8	10757.1	10901.1	12038.9	12375.8	9289.5
65°	2400.4	2550.8	3315.4	4689.4	6900.4	9681.7	12460.9	12589.3	13068.1	13367.5	10568.4
67.5°	1458.4	1515.1	1888.3	2608.2	4230.5	7541.7	13017.0	15403.2	15059.9	15218.8	12392.1
70°	1074.6	1116.5	1349.2	1732.2	2433.0	4425.6	11310.4	17411.4	17185.8	17168.1	13739.9
72°	837.0	867.5	1073.2	1399.5	1779.0	2655.0	8197.8	16670.1	17794.4	17705.0	13616.4
72.5°	793.7	820.7	1008.0	1317.2	1681.1	2406.8	7370.7	16170.0	17750.4	17710.0	13456.8
75°	624.9	644.1	746.2	1018.6	1315.8	1365.5	4039.0	12531.1	15746.6	16401.3	12103.4
77.5°	517.1	519.9	573.9	741.3	1025.7	965.4	1984.0	8694.3	11275.6	11995.6	8573.8
80°	421.3	424.9	450.4	519.9	776.0	714.3	942.0	4999.4	6313.1	6320.9	4077.3
82.5°	335.5	336.2	364.6	380.2	557.5	510.7	539.8	2347.2	2758.6	2653.6	1465.5
85°	236.2	231.2	356.1	312.1	364.6	327.7	297.9	929.2	1140.6	1091.0	458.9
87.5°	78.7	81.6	158.2	202.2	212.8	185.8	132.6	356.1	430.6	427.0	145.4
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°	2534.5	2534.5	2534.5	2534.5	2534.5	2534.5	2534.5	2534.5	2534.5	2534.5	2534.5
2.5°	2547.2	2524.5	2491.2	2454.3	2425.2	2395.4	2373.4	2362.1	2349.3	2338.7	2351.5
5°	2574.2	2531.6	2460.7	2391.2	2340.1	2294.7	2262.1	2245.1	2229.4	2218.8	2220.2
7.5°	2618.2	2549.4	2430.2	2328.8	2257.8	2208.9	2175.5	2164.2	2154.3	2151.4	2155.0
10°	2665.0	2563.5	2389.8	2255.0	2174.1	2133.7	2118.8	2126.6	2133.7	2140.1	2147.2
12.5°	2718.2	2576.3	2330.9	2168.4	2099.6	2084.0	2098.9	2133.0	2157.8	2172.7	2181.9
15°	2787.7	2587.7	2262.8	2081.9	2035.8	2053.5	2103.9	2162.8	2206.0	2233.7	2238.0
17.5°	2851.5	2587.0	2175.5	1994.7	1984.0	2035.8	2111.7	2194.7	2252.9	2291.9	2299.7
20°	2917.5	2567.8	2074.1	1909.5	1931.5	2016.6	2115.2	2215.3	2285.5	2330.9	2341.5
22.5°	2979.2	2534.5	1962.7	1832.2	1887.5	1991.1	2101.8	2203.2	2273.4	2310.3	2321.7
25°	3021.1	2476.3	1850.0	1767.0	1848.5	1959.9	2057.8	2139.4	2191.9	2210.3	2213.1
27.5°	3042.3	2400.4	1743.5	1710.2	1808.1	1908.8	1976.2	2016.6	2031.5	2030.1	2027.3
30°	3045.2	2300.4	1652.0	1664.1	1761.3	1833.6	1865.6	1857.8	1838.6	1806.0	1808.8
32.5°	3036.0	2187.6	1575.4	1620.1	1701.7	1742.1	1743.5	1706.0	1654.9	1603.1	1588.9
35°	3038.8	2076.9	1508.1	1570.5	1629.3	1647.1	1630.8	1575.4	1505.9	1439.2	1425.1
37.5°	3070.0	1980.5	1449.9	1513.0	1549.2	1553.4	1530.0	1471.9	1420.8	1355.5	1349.9
40°	3144.5	1911.7	1394.6	1448.5	1469.0	1471.2	1437.8	1396.7	1400.9	1366.2	1365.5
42.5°	3278.6	1881.9	1345.6	1381.1	1393.8	1398.1	1372.6	1346.3	1383.2	1360.5	1352.7
45°	3451.6	1889.0	1304.5	1315.1	1338.5	1358.4	1342.8	1310.9	1325.0	1226.4	1193.8
47.5°	3651.7	1934.4	1271.8	1258.4	1298.8	1336.4	1312.3	1264.0	1213.7	1115.8	1097.3
50°	3885.7	2004.6	1242.0	1202.3	1255.5	1306.6	1282.5	1213.7	1137.8	1090.3	1083.9
52.5°	4129.8	2090.4	1212.3	1140.6	1200.9	1283.9	1271.8	1202.3	1108.7	1061.9	1053.4
55°	4406.4	2177.0	1174.7	1069.0	1142.0	1273.3	1266.9	1161.2	1086.7	1060.5	1054.1
57.5°	4750.4	2275.6	1125.0	994.5	1086.7	1235.0	1215.1	1136.4	1064.0	1044.1	1042.0
60°	5198.7	2421.0	1053.4	915.0	1019.3	1176.1	1171.8	1100.2	1027.8	1013.6	1010.8
62.5°	5871.2	2661.4	954.8	835.6	944.1	1076.1	1115.1	1051.2	989.5	988.8	990.2
65°	6913.9	3023.2	847.7	766.1	868.2	991.7	1049.1	1000.9	950.5	964.7	966.8
67.5°	8122.6	3323.2	742.7	698.0	790.9	911.5	989.5	950.5	898.7	935.6	936.3
70°	8524.8	3055.1	650.5	630.6	710.8	834.2	925.0	895.2	842.7	879.6	876.0
72°	7933.2	2466.4	590.9	579.5	650.5	770.3	867.5	843.4	791.6	816.4	807.2
72.5°	7746.7	2351.5	576.0	566.8	634.1	754.0	852.6	830.6	778.9	800.1	791.6
75°	6910.4	2042.2	495.1	497.2	553.3	674.6	768.9	761.8	708.6	710.8	707.9
77.5°	5012.2	1497.4	417.1	431.3	471.0	593.0	684.5	680.3	622.1	611.4	609.3
80°	2325.9	764.0	339.8	346.2	387.3	495.8	583.8	578.1	531.3	517.8	510.0
82.5°	796.6	363.2	255.4	259.6	300.0	399.4	506.5	502.9	463.9	437.7	421.3
85°	284.4	180.9	178.8	174.5	214.2	314.2	441.2	422.1	364.6	310.7	309.3
87.5°	92.2	77.3	92.2	91.5	124.8	212.8	320.6	273.1	264.6	219.9	215.6
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)