

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: P317408

Luminaire Tested: **GAN-SA4C-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317408
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-SA4C-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 27069 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

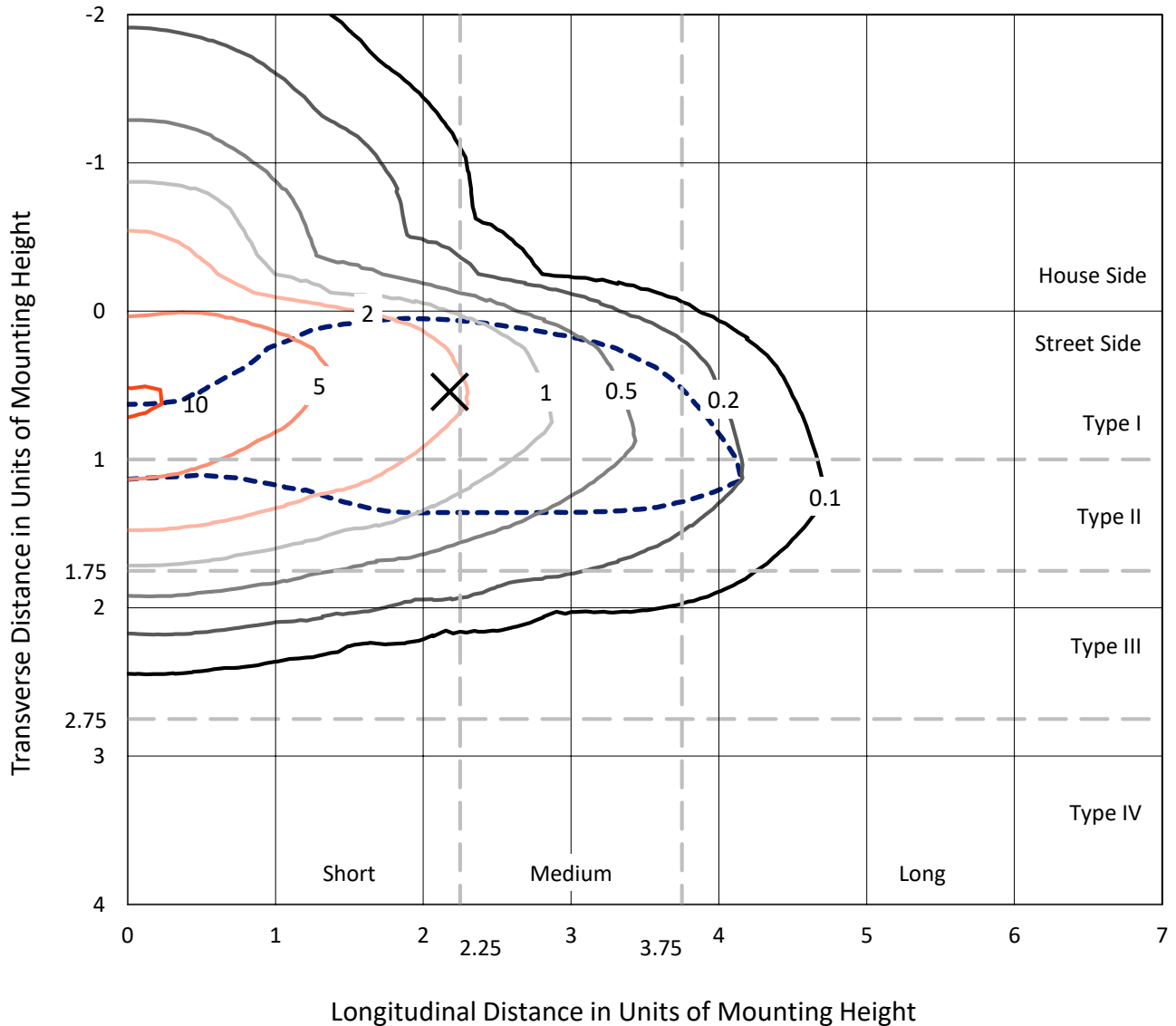
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

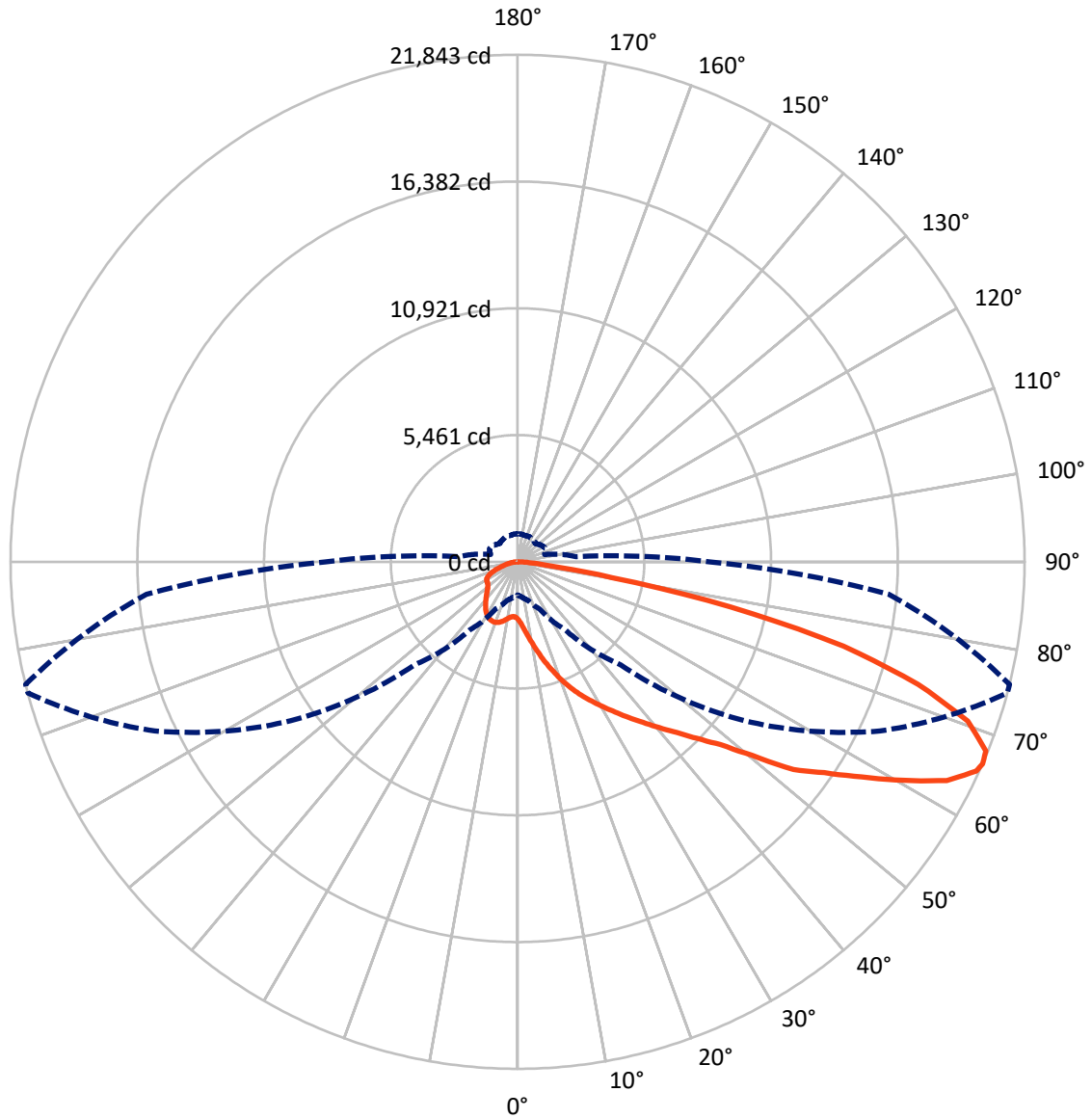
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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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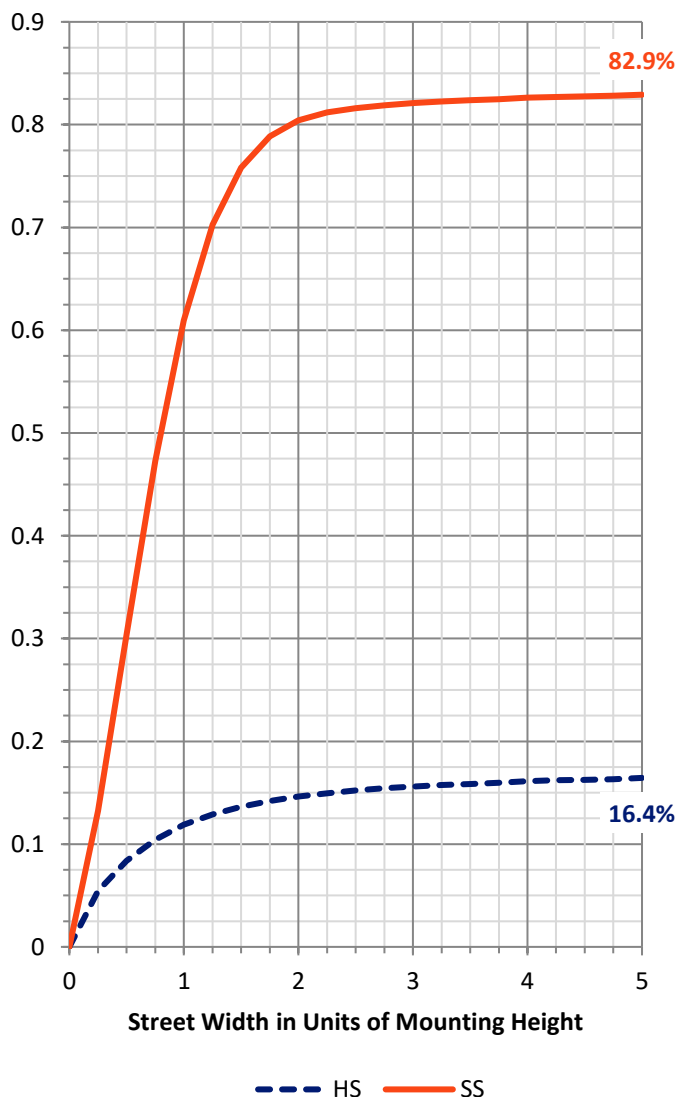
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4554.8	0.0	4554.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	22514.2	0.0	22514.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	27069.0	0.0	27069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.9	1.1
10°-20°	1180.5	4.4
20°-30°	2293.9	8.5
30°-40°	3744.2	13.8
40°-50°	5115.5	18.9
50°-60°	5958.5	22.0
60°-70°	5341.9	19.7
70°-80°	2699.6	10.0
80°-90°	435.9	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°	27069.0	100.0
0°-180°	27069.0	100.0

Coefficient of Utilization

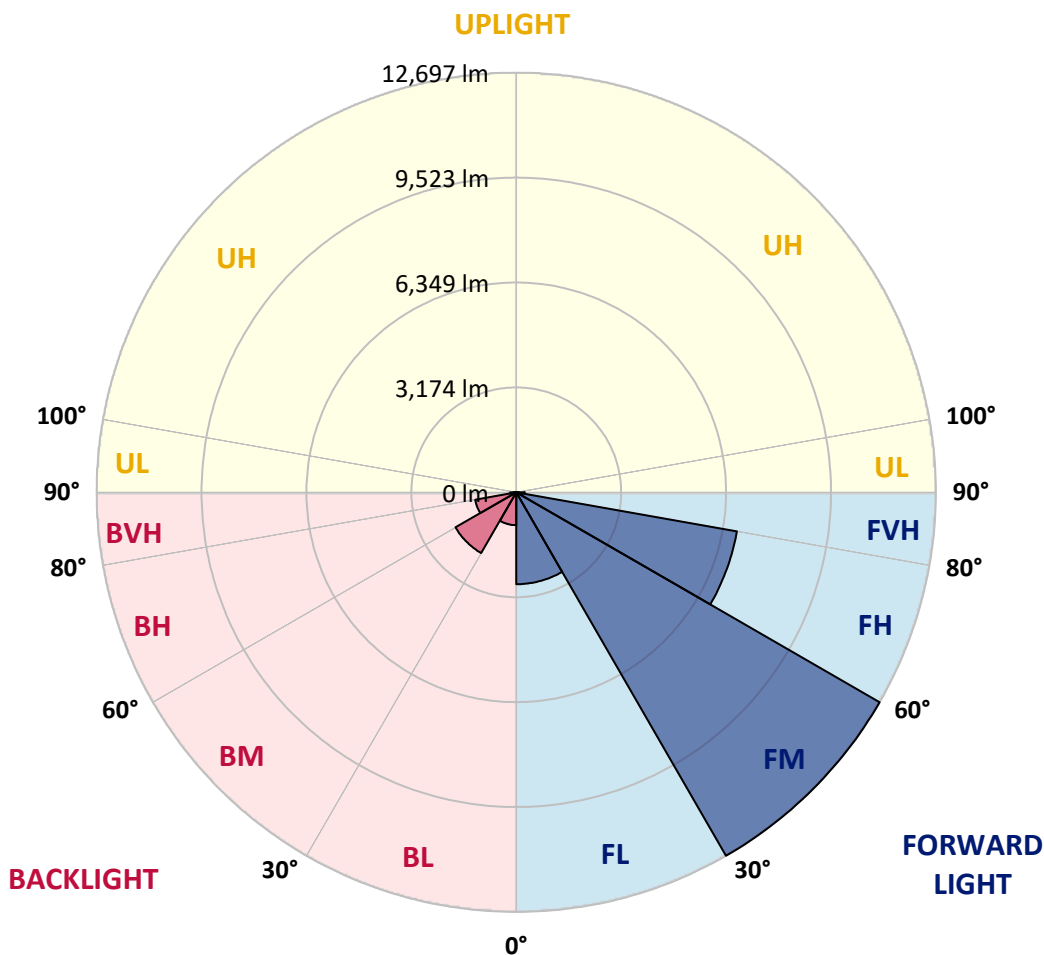


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2779.9	10.3			
FM (30°-60°)	12697.2	46.9			
FH (60°-80°)	6779.6	25.0			G3/7500
FVH (80°-90°)	257.5	1.0			G3/500
BL (0°-30°)	993.4	3.7	B2/1000		
BM (30°-60°)	2121.0	7.8	B2/2500		
BH (60°-80°)	1261.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	178.5	0.7			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0
2.5°	3281.6	3232.0	3227.4	3154.8	3138.3	2999.5	2897.5	2790.9	2669.6	2645.7	2550.1
5°	4215.3	4210.7	4147.3	4028.7	3935.9	3698.8	3464.5	3216.4	2944.4	2900.2	2685.2
7.5°	5055.2	5047.9	4999.2	4871.4	4737.3	4445.9	4111.4	3731.0	3289.9	3224.6	2868.1
10°	5693.0	5690.2	5673.7	5579.9	5466.0	5186.6	4817.2	4298.0	3691.5	3602.3	3096.9
12.5°	6185.5	6191.1	6202.1	6169.0	6114.8	5876.8	5498.2	4899.0	4119.7	4031.5	3351.5
15°	6519.1	6535.7	6592.6	6639.5	6668.0	6521.9	6155.2	5513.8	4599.4	4493.7	3633.6
17.5°	6687.3	6705.7	6804.0	6945.5	7076.0	7061.3	6770.0	6100.1	5059.8	4957.8	3936.8
20°	6832.5	6846.3	6956.5	7126.6	7357.2	7459.2	7295.6	6664.3	5564.3	5443.0	4258.5
22.5°	7253.4	7270.8	7303.9	7400.4	7604.4	7791.9	7712.9	7198.2	6026.6	5913.5	4563.6
25°	8065.7	8086.9	8015.2	7933.4	7972.0	8102.5	8117.2	7685.3	6495.2	6367.5	4891.6
27.5°	9044.4	9074.8	8952.5	8742.1	8558.3	8507.8	8490.3	8084.1	6942.8	6794.8	5216.0
30°	10002.9	10055.3	9896.3	9623.4	9286.1	9049.0	8873.5	8474.7	7383.9	7242.3	5522.0
32.5°	10939.3	10918.2	10687.5	10421.0	10025.9	9729.1	9304.5	8893.7	7880.1	7717.5	5826.2
35°	11580.8	11588.1	11374.0	11057.9	10681.1	10453.2	9881.6	9345.9	8386.5	8236.7	6171.8
37.5°	12126.6	12092.6	11850.0	11555.0	11230.6	11133.2	10557.0	9843.9	8935.1	8771.5	6539.3
40°	12308.6	12269.1	12110.1	11897.8	11637.7	11629.5	11302.3	10408.2	9555.4	9393.6	6953.8
42.5°	12198.3	12147.8	12082.5	12024.6	11944.7	11981.4	12002.6	11069.8	10237.2	10056.2	7433.5
45°	11791.2	11714.9	11760.9	11886.8	12060.5	12268.2	12634.8	11802.2	11000.9	10849.3	7996.8
47.5°	11165.4	11096.5	11239.8	11509.1	11981.4	12507.1	13233.1	12610.9	11912.5	11761.8	8799.1
50°	10285.0	10305.3	10510.2	11000.0	11714.0	12617.4	13970.1	13681.5	13237.7	13097.1	9893.6
52.5°	8840.4	8844.1	9421.2	10225.3	11239.8	12560.4	14379.0	15049.9	15047.1	14877.1	10935.7
55°	7498.7	7580.5	8037.2	9106.0	10471.6	12332.5	14664.8	15715.2	16235.3	16035.9	11907.0
57.5°	6188.3	6236.1	6668.9	7742.3	9375.3	11725.0	14958.0	16513.8	17604.6	17478.7	13114.5
60°	4697.7	4771.3	5218.8	6210.4	7972.9	10647.1	14985.5	17347.3	19241.2	19114.4	14462.6
62.5°	3049.1	3175.9	3595.0	4524.1	6276.5	9096.8	14345.9	17892.2	20792.5	20747.4	15659.1
65°	1752.5	1848.0	2139.3	2856.1	4330.2	7150.5	12825.0	17682.7	21747.3	21721.5	16106.7
66°	1431.7	1491.5	1714.8	2232.2	3572.9	6279.3	11941.0	17240.7	21841.9	21842.8	16055.2
67.5°	1145.0	1171.7	1271.8	1598.1	2636.5	4977.1	10361.3	16265.6	21724.3	21756.4	15723.5
70°	947.5	961.2	992.5	1071.5	1439.1	3001.3	7354.5	13732.1	20543.4	20568.2	14428.6
72.5°	850.0	858.3	870.3	881.3	1015.5	1677.1	4491.9	10985.3	18011.7	18043.8	12455.6
75°	770.1	774.7	772.8	773.8	851.9	1068.8	2321.3	8201.7	14563.7	14499.4	9541.6
77.5°	676.4	681.0	671.8	673.6	753.5	821.6	1155.1	5741.7	9828.3	9374.3	5375.9
80°	571.6	575.3	571.6	578.0	656.1	620.3	671.8	3230.2	4345.8	4110.5	1911.4
82.5°	431.9	447.5	458.6	484.3	540.4	441.1	449.4	1258.1	1323.3	1259.9	586.3
85°	189.3	230.7	345.5	370.3	406.2	264.7	295.0	512.8	538.5	522.0	213.2
87.5°	49.6	54.2	170.9	215.0	225.1	119.5	153.5	233.4	246.3	233.4	70.8
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°	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0
2.5°	2499.6	2454.5	2373.7	2302.0	2247.8	2211.0	2174.3	2155.9	2144.9	2133.8	2135.7
5°	2579.5	2488.6	2349.8	2251.5	2196.3	2161.4	2143.0	2135.7	2131.1	2120.0	2120.0
7.5°	2699.9	2571.3	2380.1	2279.0	2235.8	2209.2	2198.2	2194.5	2189.0	2176.1	2177.9
10°	2851.5	2671.4	2443.5	2345.2	2305.7	2276.3	2260.6	2255.1	2245.0	2230.3	2232.2
12.5°	3029.8	2795.5	2527.1	2424.2	2376.4	2336.9	2311.2	2295.6	2278.1	2258.8	2259.7
15°	3224.6	2930.6	2617.2	2495.0	2429.7	2374.6	2333.2	2306.6	2279.0	2255.1	2254.2
17.5°	3422.2	3061.1	2686.1	2533.6	2445.4	2372.8	2316.7	2275.4	2241.4	2211.9	2209.2
20°	3635.4	3178.7	2724.7	2529.9	2416.0	2329.6	2255.1	2203.7	2166.0	2136.6	2132.0
22.5°	3852.3	3289.0	2731.2	2492.2	2350.7	2245.0	2166.9	2109.9	2071.3	2041.0	2030.0
25°	4050.8	3374.4	2704.5	2419.6	2259.7	2145.8	2069.5	2011.6	1980.4	1944.5	1933.5
27.5°	4231.8	3434.2	2651.2	2326.8	2157.7	2045.6	1973.9	1924.3	1890.3	1862.7	1853.5
30°	4394.5	3466.3	2563.9	2216.5	2053.0	1951.0	1890.3	1856.3	1826.9	1792.0	1785.5
32.5°	4548.9	3466.3	2451.8	2096.2	1949.1	1867.3	1831.5	1810.4	1777.3	1743.3	1734.1
35°	4703.3	3445.2	2319.5	1970.3	1853.5	1807.6	1805.8	1781.0	1730.4	1684.5	1672.5
37.5°	4865.9	3402.0	2170.6	1852.6	1775.4	1781.0	1796.6	1741.4	1669.8	1604.5	1587.0
40°	5049.7	3342.3	2016.2	1750.6	1710.2	1769.0	1771.8	1684.5	1544.8	1485.0	1469.4
42.5°	5265.7	3282.5	1872.8	1660.6	1658.7	1733.2	1724.9	1561.3	1477.7	1447.4	1439.1
45°	5549.6	3248.5	1736.8	1575.1	1618.3	1675.3	1644.9	1493.3	1458.4	1440.9	1433.6
47.5°	5997.2	3266.0	1611.9	1507.1	1577.9	1617.4	1496.1	1465.7	1440.9	1419.8	1412.4
50°	6557.7	3255.9	1510.8	1460.2	1531.9	1556.7	1429.0	1429.9	1417.0	1393.1	1382.1
52.5°	6979.5	3176.9	1445.5	1433.6	1491.5	1449.2	1386.7	1395.0	1388.6	1353.6	1341.7
55°	7386.6	3108.9	1412.4	1423.5	1462.1	1315.0	1337.1	1357.3	1350.9	1316.9	1311.4
57.5°	7893.0	3096.0	1392.2	1426.2	1437.3	1248.0	1289.3	1316.0	1311.4	1296.7	1293.9
60°	8513.3	3099.7	1373.8	1430.8	1409.7	1198.3	1244.3	1278.3	1281.0	1278.3	1276.4
62.5°	8854.2	2999.5	1327.9	1418.0	1361.0	1155.1	1197.4	1247.0	1248.0	1253.5	1252.5
65°	8564.7	2699.9	1242.4	1372.9	1279.2	1119.3	1157.0	1211.2	1197.4	1222.2	1222.2
66°	8283.5	2527.1	1200.2	1343.5	1244.3	1105.5	1144.1	1192.8	1175.4	1209.4	1209.4
67.5°	7709.2	2235.8	1123.9	1281.0	1194.7	1086.2	1129.4	1162.5	1138.6	1189.1	1185.5
70°	6659.7	1729.5	970.4	1139.5	1112.9	1057.7	1109.2	1101.8	1066.9	1144.1	1129.4
72.5°	5614.9	1314.1	779.3	953.9	988.8	1021.9	1080.7	1024.6	980.5	1034.8	1002.6
75°	4356.8	987.9	615.7	741.6	835.3	965.8	1046.7	935.5	872.1	866.6	849.1
77.5°	2355.3	678.2	488.0	566.1	663.5	896.0	1023.7	839.9	744.4	722.3	708.5
80°	932.7	441.1	354.7	429.2	464.1	794.9	968.6	728.7	613.9	591.8	570.7
82.5°	385.0	261.0	228.8	287.6	302.3	680.0	869.3	597.3	474.2	656.1	696.6
85°	165.4	143.4	136.0	148.9	170.9	476.9	692.0	455.8	511.9	456.7	363.0
87.5°	49.6	60.7	57.9	57.0	62.5	114.0	368.5	253.6	375.9	142.4	106.6
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)