

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: P649384

Luminaire Tested: **GLAN-SA4D-835-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4D-835-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 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: 24420.2 lumens
Efficiency: N/A
Efficacy: 99.7 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): 245
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

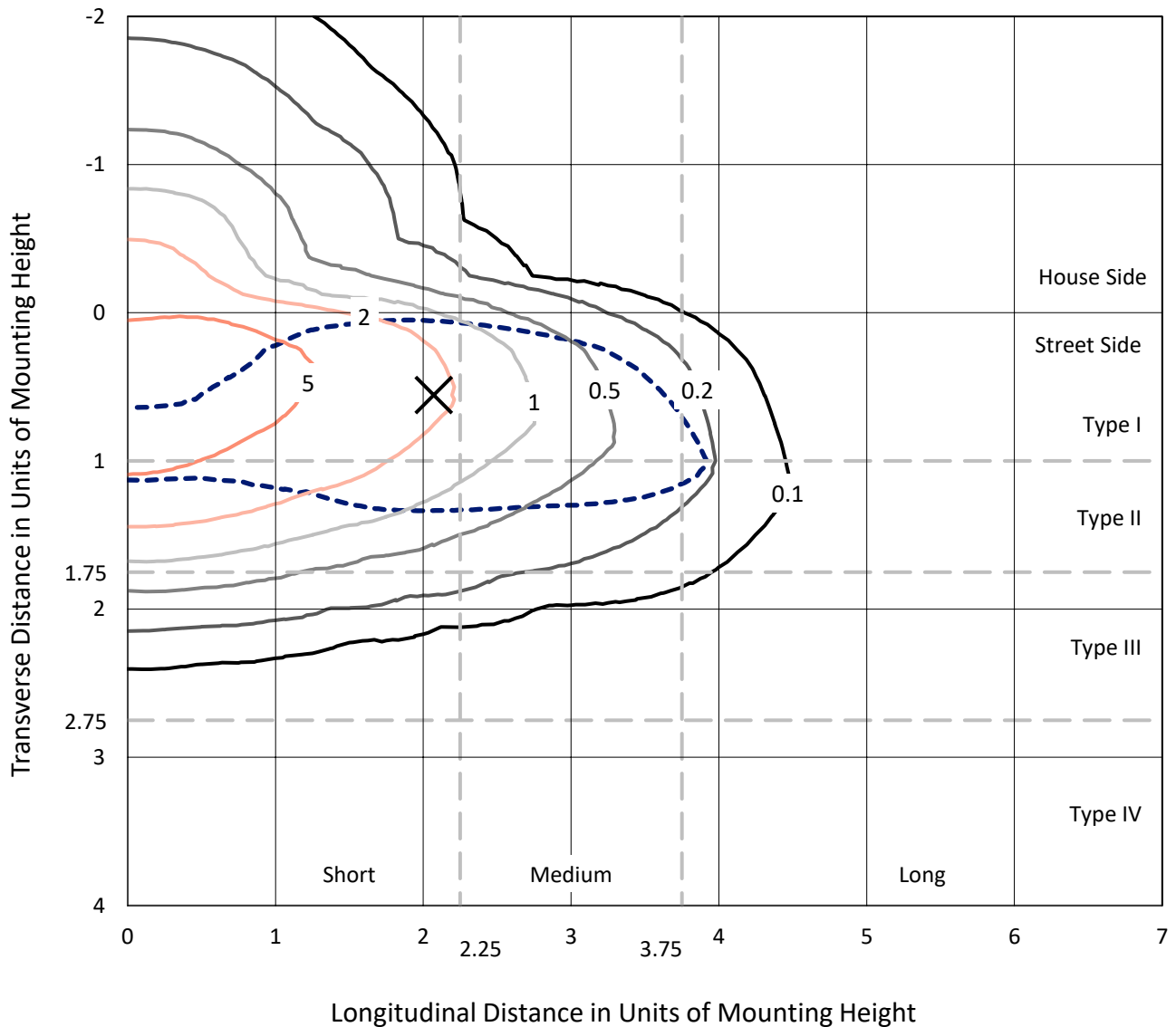




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Iso-Footcandle Lines of Horizontal Illumination

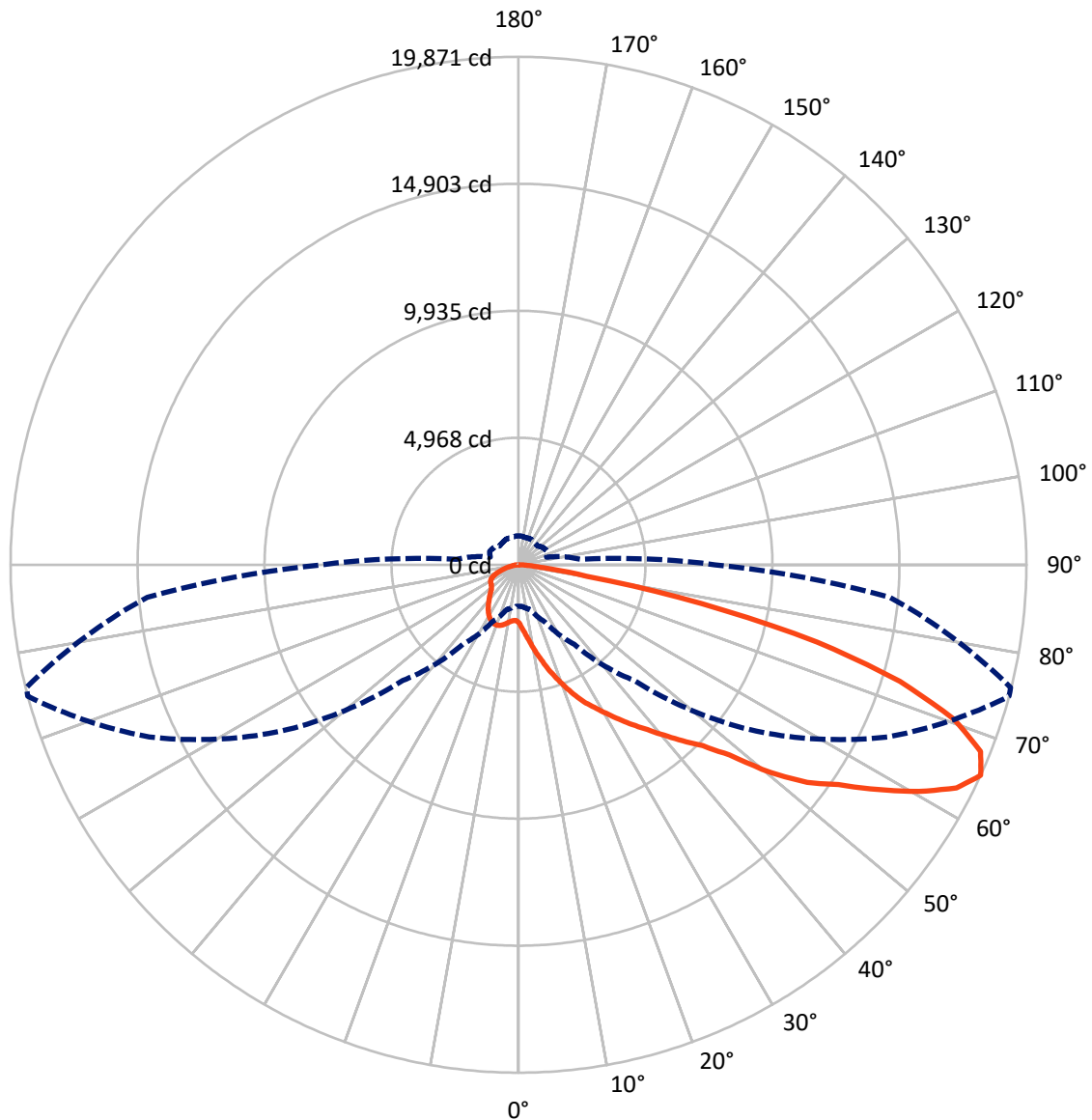
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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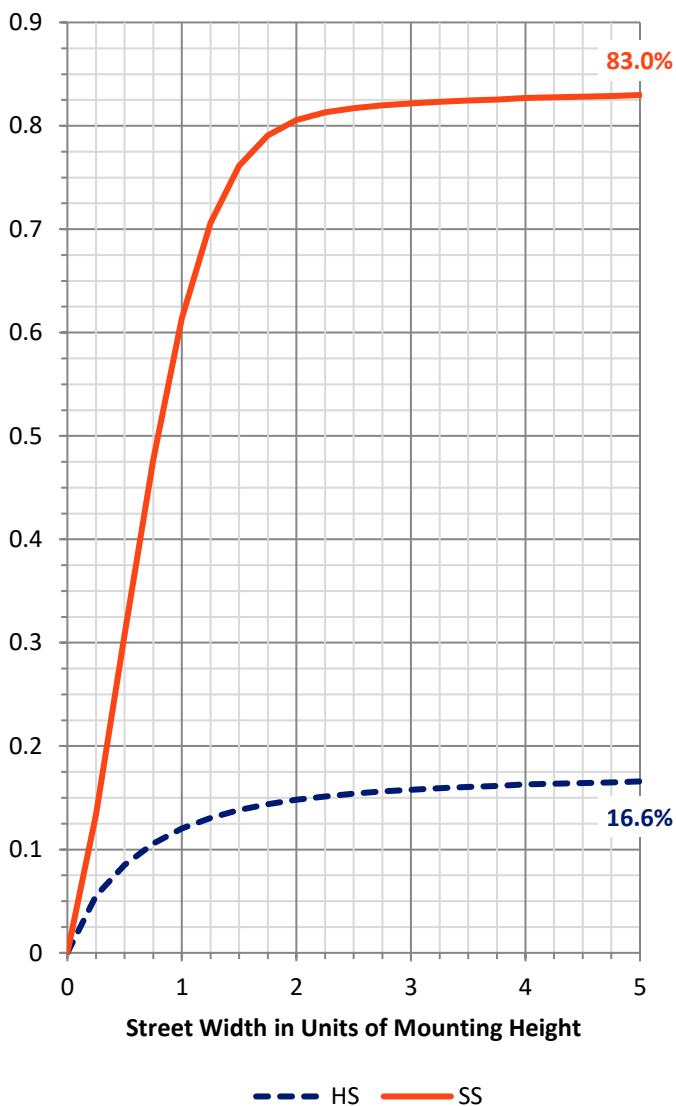
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4105.4	0.0	4105.4
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	20314.8	0.0	20314.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	24420.2	0.0	24420.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.7	1.1
10°-20°	1079.8	4.4
20°-30°	2085.7	8.5
30°-40°	3387.9	13.9
40°-50°	4660.3	19.1
50°-60°	5502.2	22.5
60°-70°	4820.9	19.7
70°-80°	2301.5	9.4
80°-90°	306.3	1.3
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°	24420.2	100.0
0°-180°	24420.2	100.0

Coefficient of Utilization



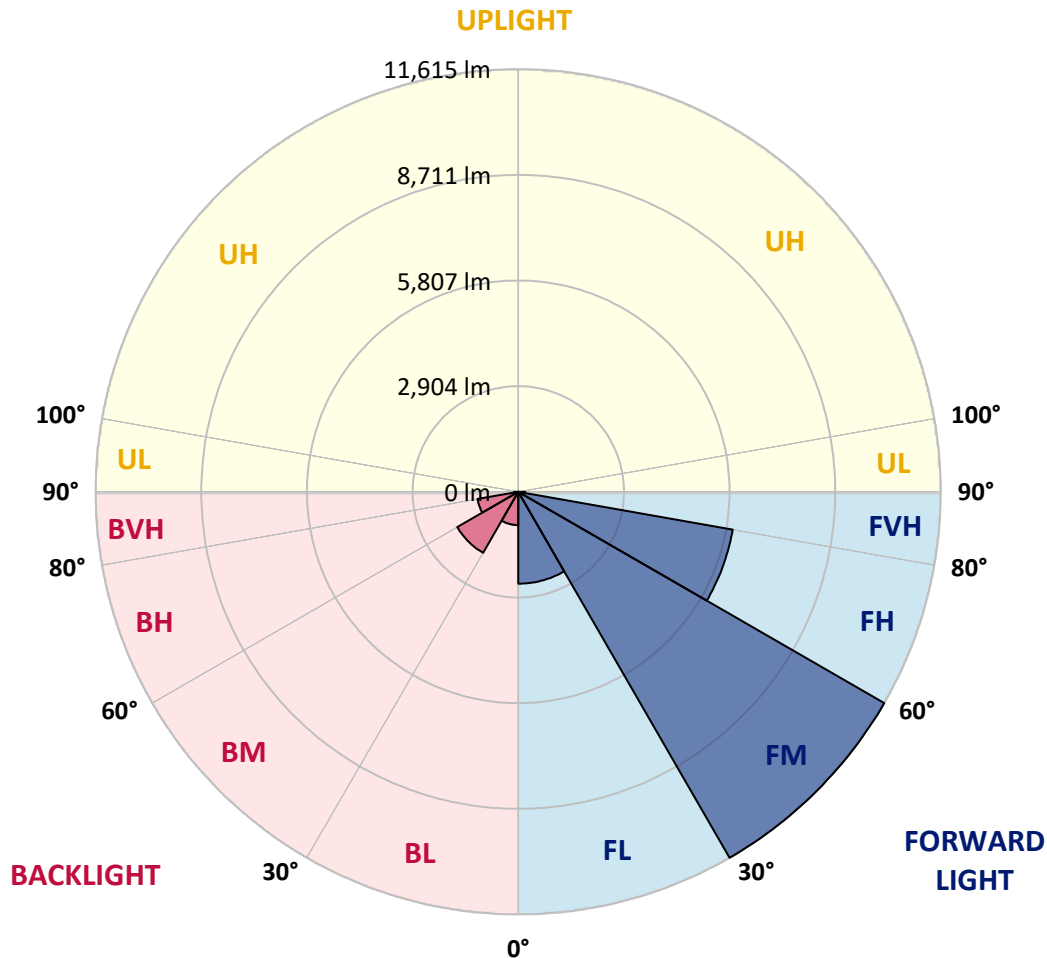
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2524.7	10.3			
FM (30°-60°)	11614.8	47.6			
FH (60°-80°)	5984.0	24.5			G3/7500
FVH (80°-90°)	191.4	0.8			G2/225
BL (0°-30°)	916.5	3.8	B2/1000		
BM (30°-60°)	1935.6	7.9	B2/2500		
BH (60°-80°)	1138.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	114.9	0.5			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°	2269.0	2269.0	2269.0	2269.0	2269.0	2269.0	2269.0	2269.0	2269.0	2269.0	2269.0
2.5°	3014.6	2994.8	2973.6	2915.3	2853.1	2782.9	2682.2	2585.5	2457.1	2453.1	2357.7
5°	3850.5	3837.2	3743.1	3688.9	3544.5	3352.4	3189.5	2936.5	2702.1	2674.3	2488.8
7.5°	4618.7	4567.0	4531.3	4433.3	4290.2	4043.8	3728.6	3386.9	2994.8	2957.7	2650.4
10°	5197.5	5192.2	5173.7	5088.9	4981.6	4736.6	4386.9	3896.8	3365.6	3292.8	2846.4
12.5°	5630.6	5634.6	5632.0	5630.6	5553.8	5345.9	4967.0	4450.5	3740.5	3688.9	3073.0
15°	5915.4	5955.2	5971.1	6037.2	6043.9	5904.8	5579.0	4985.6	4163.1	4086.2	3316.6
17.5°	6103.5	6123.4	6197.5	6310.1	6401.5	6376.4	6086.3	5481.0	4594.9	4466.4	3569.6
20°	6283.7	6318.1	6375.0	6528.7	6690.3	6764.4	6560.4	5988.3	5022.7	4940.6	3849.1
22.5°	6658.5	6707.5	6727.4	6805.5	6943.3	7074.4	6981.7	6474.4	5491.6	5380.3	4145.8
25°	7292.9	7344.6	7288.9	7270.4	7315.5	7380.4	7360.5	6932.7	5934.0	5775.0	4426.6
27.5°	8119.5	8126.1	8017.5	7914.2	7802.9	7769.8	7708.9	7339.3	6318.1	6185.6	4708.7
30°	9006.9	8975.1	8795.0	8608.2	8420.1	8234.7	8059.9	7731.3	6745.9	6593.6	4985.6
32.5°	9830.8	9813.6	9613.5	9323.5	9005.6	8830.8	8477.1	8127.4	7204.2	7057.2	5270.4
35°	10448.0	10473.2	10253.3	9936.7	9589.7	9434.8	8988.4	8543.3	7678.4	7518.1	5580.3
37.5°	10886.4	10873.2	10678.5	10404.3	10099.7	9964.5	9585.7	8997.6	8188.3	8034.7	5919.4
40°	11042.7	11034.8	10890.4	10690.4	10497.1	10449.4	10210.9	9487.7	8772.5	8592.3	6327.3
42.5°	10943.4	10960.6	10865.2	10811.0	10775.2	10809.6	10832.1	10130.1	9409.5	9244.0	6769.7
45°	10638.8	10629.5	10616.2	10704.9	10906.3	11132.8	11446.8	10736.7	10102.3	9969.9	7363.2
47.5°	10094.4	10160.6	10193.7	10438.7	10878.5	11415.0	12154.0	11550.0	11107.6	10992.4	8267.8
50°	9332.7	9385.7	9581.7	10017.5	10673.2	11520.9	12845.4	12879.9	12784.5	12568.6	9250.6
52.5°	8143.3	8225.4	8629.4	9428.1	10252.0	11477.2	13264.0	14020.3	14146.1	13984.5	10218.9
55°	6812.1	6927.4	7353.9	8401.6	9671.9	11238.8	13552.7	14681.2	15183.2	15033.6	11151.3
57.5°	5508.8	5630.6	6069.0	7083.6	8659.9	10711.6	13742.1	15417.7	16595.2	16400.5	12311.7
60°	4128.6	4255.8	4631.9	5677.0	7218.8	9681.1	13613.7	16056.1	18005.9	17922.4	13473.2
62.5°	2663.7	2804.1	3131.2	3996.1	5548.5	8273.1	12926.2	16408.5	19227.1	19126.4	14321.0
65°	1622.5	1638.4	1818.6	2480.9	3797.5	6405.5	11354.0	15940.9	19870.8	19840.4	14579.3
67.5°	1049.1	1074.2	1156.3	1486.1	2276.9	4449.2	9078.4	14397.8	19494.7	19484.1	14045.5
70°	886.1	894.0	931.1	1002.7	1323.2	2698.1	6375.0	11938.1	18065.5	18065.5	12762.0
72.5°	792.1	802.7	815.9	838.4	944.4	1528.5	3804.1	9293.0	15597.8	15701.2	10862.6
75°	719.3	716.6	724.5	728.5	805.3	998.7	1967.0	6873.1	12066.6	11859.9	7866.5
77.5°	615.9	619.9	615.9	633.1	711.3	760.3	998.7	4612.0	7312.8	7045.3	3948.4
80°	506.0	512.6	519.2	529.9	608.0	577.5	600.0	2102.0	2704.7	2647.8	1219.9
82.5°	380.1	389.4	400.0	425.2	478.2	381.5	378.8	898.0	976.2	894.0	449.1
85°	153.6	181.5	274.2	299.3	300.7	209.3	233.1	374.8	398.7	389.4	176.2
87.5°	35.8	42.4	88.7	133.8	123.2	78.1	86.1	121.8	139.1	128.5	59.6
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°	2269.0	2269.0	2269.0	2269.0	2269.0	2269.0	2269.0	2269.0	2269.0	2269.0	2269.0
2.5°	2314.0	2267.6	2188.2	2127.3	2083.5	2045.1	2021.2	2006.7	2001.4	2000.1	2001.4
5°	2392.1	2310.0	2184.2	2104.7	2061.0	2035.8	2021.2	2019.9	2021.2	2022.6	2018.6
7.5°	2499.4	2381.5	2217.3	2143.1	2110.0	2091.5	2084.8	2082.2	2083.5	2082.2	2082.2
10°	2642.5	2480.9	2282.2	2205.4	2177.5	2156.4	2145.7	2139.2	2133.8	2128.5	2125.9
12.5°	2800.1	2590.8	2352.4	2278.2	2238.5	2205.4	2181.5	2164.3	2152.4	2140.5	2137.8
15°	2976.3	2707.4	2430.5	2327.2	2270.3	2221.3	2180.2	2152.4	2131.2	2113.9	2112.6
17.5°	3144.4	2817.3	2483.5	2349.7	2266.3	2197.4	2143.1	2104.7	2078.2	2055.7	2053.0
20°	3324.6	2921.9	2507.4	2335.1	2226.5	2143.1	2071.6	2025.2	1994.8	1969.6	1965.6
22.5°	3506.0	3010.7	2504.7	2288.8	2157.7	2059.7	1984.2	1935.2	1899.4	1874.3	1864.9
25°	3679.6	3082.2	2471.6	2214.6	2062.3	1960.3	1883.5	1838.5	1806.7	1776.2	1776.2
27.5°	3835.9	3124.6	2409.4	2124.6	1964.3	1857.0	1796.0	1755.0	1725.9	1706.0	1694.1
30°	3989.5	3144.4	2324.6	2010.7	1861.0	1769.6	1720.6	1696.8	1670.2	1647.7	1645.1
32.5°	4127.3	3140.5	2218.6	1899.4	1763.0	1698.1	1678.2	1659.6	1631.9	1600.1	1592.1
35°	4261.1	3114.0	2092.8	1777.6	1680.9	1655.7	1661.0	1634.5	1584.2	1544.4	1537.8
37.5°	4406.7	3066.3	1955.0	1678.2	1612.0	1635.8	1649.1	1590.7	1508.7	1446.4	1431.9
40°	4575.0	3012.0	1811.9	1578.8	1557.7	1617.3	1617.3	1510.0	1397.4	1359.0	1348.4
42.5°	4772.3	2966.9	1692.8	1495.4	1512.6	1572.3	1565.6	1402.7	1356.3	1336.5	1331.2
45°	5085.0	2951.0	1569.6	1422.6	1475.6	1519.3	1464.9	1365.6	1339.1	1323.2	1317.9
47.5°	5579.0	2969.6	1461.0	1368.3	1433.1	1466.2	1352.4	1340.4	1321.9	1299.4	1296.7
50°	6037.2	2952.4	1384.2	1337.8	1396.1	1402.7	1306.0	1310.0	1299.4	1274.2	1268.9
52.5°	6412.1	2898.1	1335.2	1321.9	1364.3	1291.4	1262.3	1276.8	1272.9	1241.1	1235.8
55°	6824.1	2865.0	1311.3	1321.9	1343.1	1194.7	1221.2	1242.4	1237.1	1214.6	1213.3
57.5°	7323.4	2871.6	1294.1	1325.9	1321.9	1145.8	1180.1	1205.4	1204.0	1197.4	1197.4
60°	7834.7	2874.2	1267.6	1324.5	1296.7	1107.3	1137.8	1173.6	1176.2	1180.1	1180.1
62.5°	8004.2	2759.1	1215.9	1300.7	1241.1	1070.2	1098.1	1147.1	1144.4	1155.0	1156.3
65°	7687.7	2439.8	1139.1	1246.4	1169.6	1043.7	1067.6	1112.6	1098.1	1125.9	1131.2
67.5°	6997.6	2018.6	1019.9	1148.3	1090.1	1015.9	1047.7	1065.0	1038.4	1092.8	1094.1
70°	6047.9	1576.2	868.9	1009.3	1000.0	986.8	1031.8	1005.3	968.3	1034.5	1021.2
72.5°	5057.1	1204.0	694.1	825.2	879.5	943.0	1004.0	928.5	876.9	896.7	872.9
75°	3798.8	890.1	557.7	646.4	732.5	880.8	978.8	835.8	756.3	737.7	732.5
77.5°	1936.5	581.5	417.3	483.4	549.7	796.1	944.4	727.2	626.5	597.4	584.1
80°	691.4	361.6	294.0	333.8	370.9	684.8	825.2	601.3	486.1	480.8	486.1
82.5°	320.6	233.1	197.4	218.5	219.9	457.0	629.1	449.1	369.6	561.6	474.2
85°	137.7	116.6	111.3	108.6	100.7	204.0	353.7	241.1	376.2	168.2	155.0
87.5°	41.0	46.4	41.0	30.5	22.6	22.6	35.8	13.2	9.2	6.7	6.7
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)