

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: P317429

Luminaire Tested: **GAN-SA5A-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317429
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-SA5A-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24266 lumens
Efficiency: N/A
Efficacy: 149.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

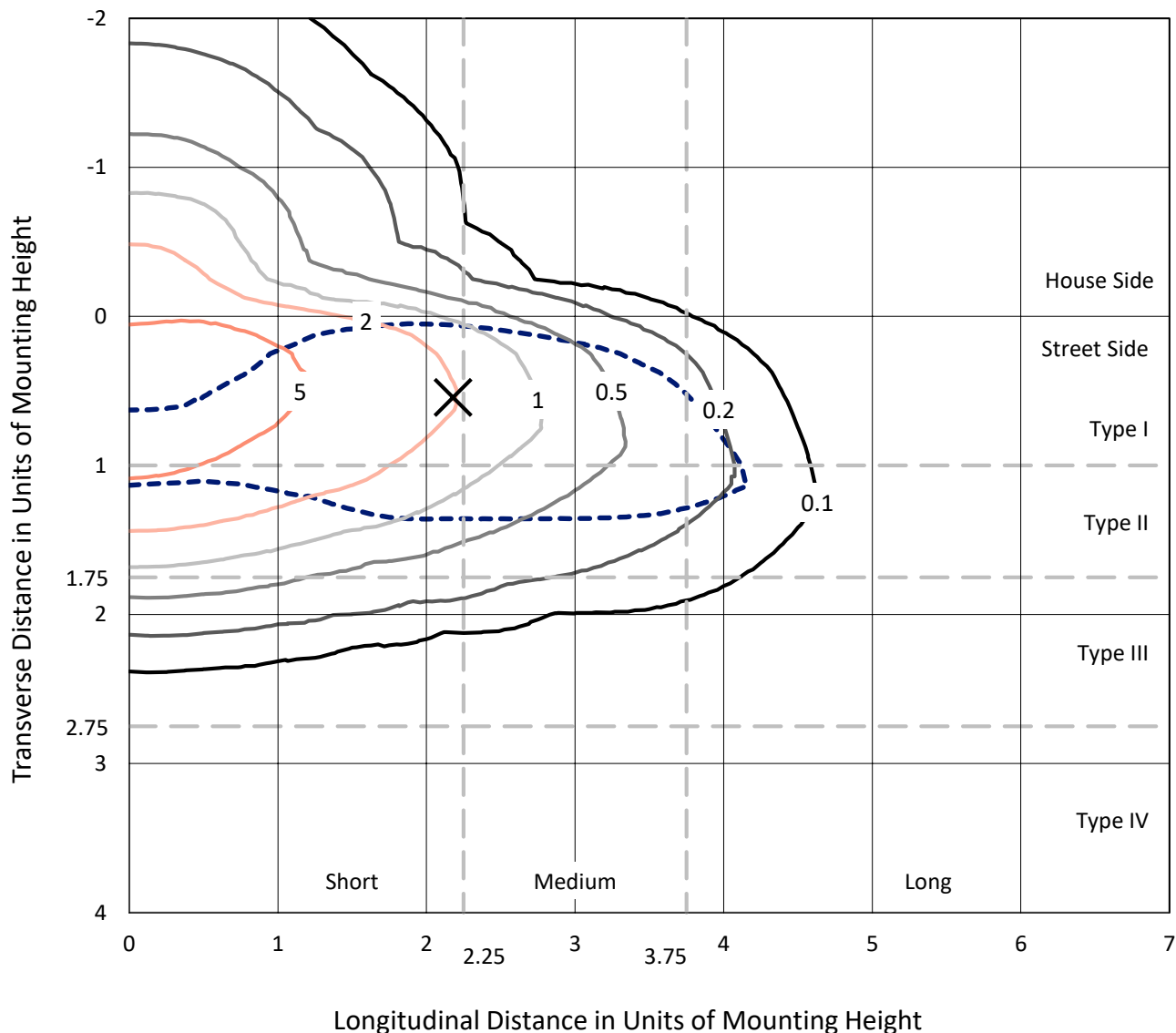
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

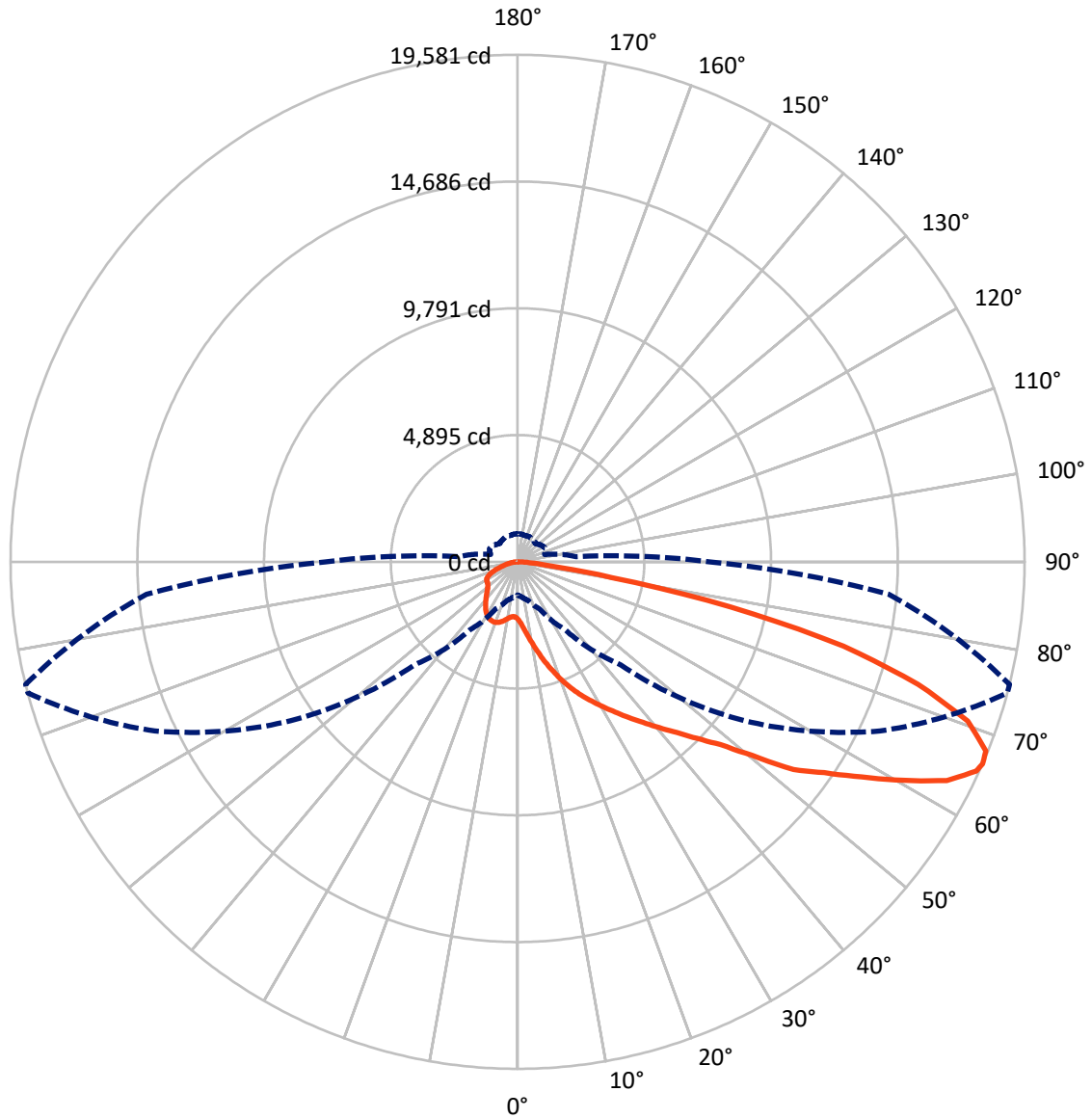
✕ Max cd
 - - - 1/2 Max cd



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 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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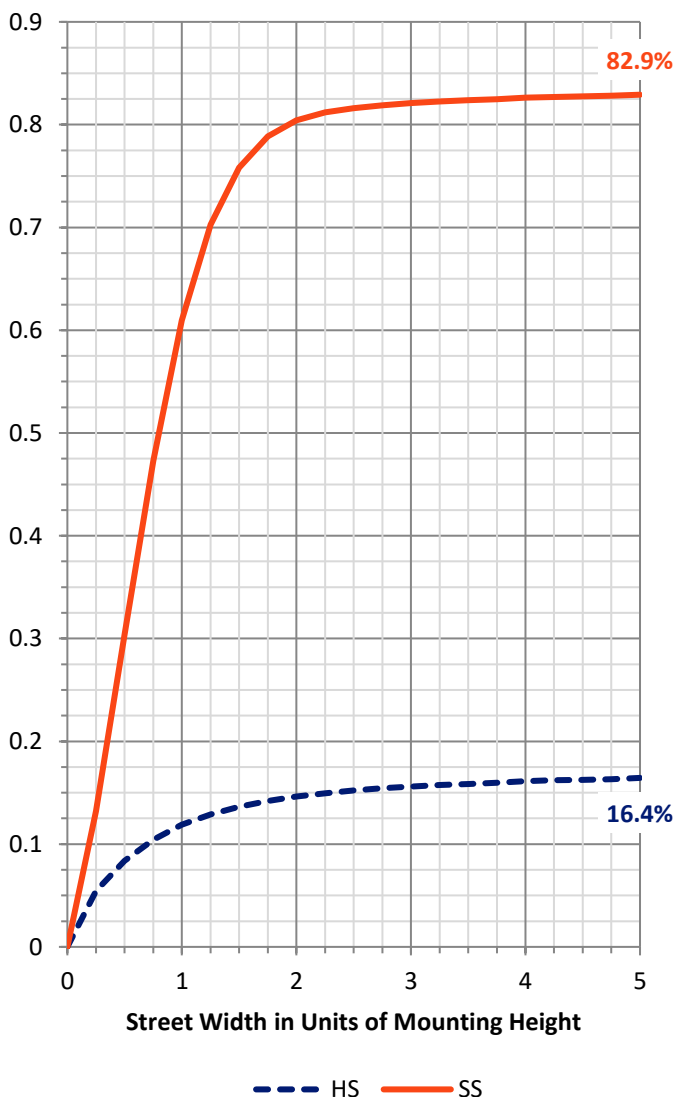
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4083.1	0.0	4083.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	20182.9	0.0	20182.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	24266.0	0.0	24266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.0	1.1
10°-20°	1058.2	4.4
20°-30°	2056.4	8.5
30°-40°	3356.5	13.8
40°-50°	4585.8	18.9
50°-60°	5341.5	22.0
60°-70°	4788.8	19.7
70°-80°	2420.0	10.0
80°-90°	390.8	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°	24266.0	100.0
0°-180°	24266.0	100.0

Coefficient of Utilization

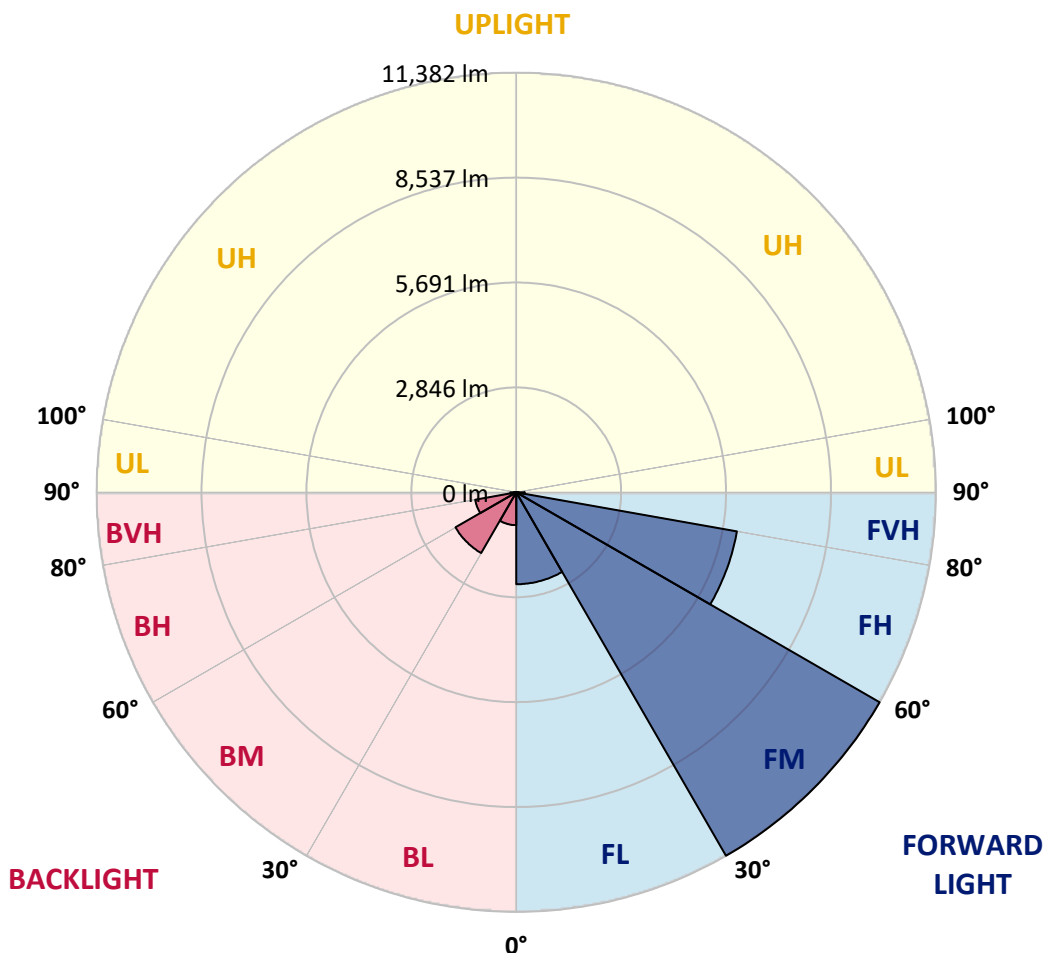


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2492.1	10.3			
FM (30°-60°)	11382.4	46.9			
FH (60°-80°)	6077.6	25.0			G3/7500
FVH (80°-90°)	230.8	1.0			G3/500
BL (0°-30°)	890.6	3.7	B2/1000		
BM (30°-60°)	1901.4	7.8	B2/2500		
BH (60°-80°)	1131.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	160.0	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°	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0
2.5°	2941.8	2897.3	2893.2	2828.1	2813.3	2688.9	2597.5	2501.9	2393.2	2371.7	2286.1
5°	3778.8	3774.7	3717.8	3611.6	3528.4	3315.8	3105.7	2883.3	2639.5	2599.9	2407.2
7.5°	4531.7	4525.2	4481.5	4367.0	4246.7	3985.6	3685.7	3344.6	2949.2	2890.7	2571.1
10°	5103.5	5101.0	5086.2	5002.1	4900.0	4649.6	4318.4	3852.9	3309.2	3229.3	2776.2
12.5°	5545.0	5550.0	5559.9	5530.2	5481.6	5268.2	4928.8	4391.7	3693.1	3614.0	3004.4
15°	5844.1	5858.9	5910.0	5952.0	5977.5	5846.5	5517.8	4942.8	4123.1	4028.4	3257.3
17.5°	5994.8	6011.3	6099.4	6226.3	6343.3	6330.1	6069.0	5468.4	4535.9	4444.4	3529.2
20°	6125.0	6137.3	6236.2	6388.6	6595.4	6686.8	6540.2	5974.2	4988.1	4879.4	3817.5
22.5°	6502.3	6517.9	6547.6	6634.1	6817.0	6985.0	6914.2	6452.9	5402.5	5301.2	4091.0
25°	7230.5	7249.5	7185.2	7111.9	7146.5	7263.5	7276.7	6889.5	5822.6	5708.1	4385.1
27.5°	8107.9	8135.1	8025.5	7836.8	7672.1	7626.8	7611.1	7247.0	6223.8	6091.2	4675.9
30°	8967.1	9014.1	8871.5	8626.9	8324.5	8112.0	7954.7	7597.1	6619.3	6492.4	4950.2
32.5°	9806.6	9787.6	9580.8	9341.9	8987.7	8721.6	8341.0	7972.8	7064.1	6918.3	5222.9
35°	10381.6	10388.2	10196.2	9912.8	9575.1	9370.8	8858.4	8378.1	7518.0	7383.8	5532.7
37.5°	10870.9	10840.4	10623.0	10358.5	10067.7	9980.4	9463.9	8824.6	8009.8	7863.2	5862.2
40°	11034.0	10998.6	10856.1	10665.8	10432.7	10425.2	10132.0	9330.4	8565.9	8420.9	6233.7
42.5°	10935.2	10889.9	10831.4	10779.5	10707.8	10740.8	10759.7	9923.5	9177.2	9014.9	6663.8
45°	10570.2	10501.9	10543.0	10655.9	10811.6	10997.8	11326.5	10580.1	9861.8	9725.8	7168.7
47.5°	10009.2	9947.4	10075.9	10317.3	10740.8	11212.0	11862.8	11305.1	10679.0	10543.9	7887.9
50°	9220.0	9238.1	9421.8	9860.9	10501.0	11310.8	12523.5	12264.8	11866.9	11740.9	8869.1
52.5°	7925.0	7928.3	8445.6	9166.5	10075.9	11259.8	12890.1	13491.4	13489.0	13336.6	9803.3
55°	6722.2	6795.6	7205.0	8163.1	9387.2	11055.5	13146.3	14087.9	14554.1	14375.4	10674.0
57.5°	5547.5	5590.3	5978.3	6940.5	8404.4	10510.9	13409.1	14803.8	15781.6	15668.8	11756.5
60°	4211.3	4277.2	4678.4	5567.3	7147.3	9544.6	13433.8	15551.0	17248.8	17135.1	12965.0
62.5°	2733.4	2847.1	3222.7	4055.6	5626.6	8154.8	12860.4	16039.5	18639.4	18599.0	14037.6
65°	1571.0	1656.7	1917.8	2560.4	3881.8	6410.0	11497.0	15851.6	19495.3	19472.3	14438.8
66°	1283.5	1337.0	1537.2	2001.0	3203.0	5629.1	10704.5	15455.4	19580.2	19581.0	14392.7
67.5°	1026.5	1050.4	1140.1	1432.6	2363.5	4461.7	9288.4	14581.3	19474.7	19503.6	14095.3
70°	849.3	861.7	889.7	960.6	1290.1	2690.5	6592.9	12310.1	18416.1	18438.4	12934.5
72.5°	762.0	769.4	780.1	790.0	910.3	1503.4	4026.8	9847.8	16146.6	16175.4	11165.8
75°	690.3	694.5	692.8	693.6	763.7	958.1	2080.9	7352.5	13055.6	12998.0	8553.6
77.5°	606.3	610.4	602.2	603.8	675.5	736.5	1035.5	5147.1	8810.6	8403.6	4819.3
80°	512.4	515.7	512.4	518.2	588.2	556.1	602.2	2895.7	3895.8	3684.9	1713.5
82.5°	387.2	401.2	411.1	434.1	484.4	395.4	402.8	1127.8	1186.3	1129.4	525.6
85°	169.7	206.8	309.8	332.0	364.1	237.3	264.4	459.7	482.7	467.9	191.1
87.5°	44.5	48.6	153.2	192.8	201.8	107.1	137.6	209.2	220.8	209.2	63.4
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°	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0
2.5°	2240.7	2200.4	2127.9	2063.6	2015.0	1982.1	1949.1	1932.6	1922.8	1912.9	1914.5
5°	2312.4	2230.9	2106.5	2018.3	1968.9	1937.6	1921.1	1914.5	1910.4	1900.5	1900.5
7.5°	2420.3	2305.0	2133.7	2043.0	2004.3	1980.4	1970.5	1967.2	1962.3	1950.8	1952.4
10°	2556.3	2394.8	2190.5	2102.3	2066.9	2040.6	2026.6	2021.6	2012.6	1999.4	2001.0
12.5°	2716.1	2506.0	2265.5	2173.2	2130.4	2094.9	2071.9	2057.9	2042.2	2024.9	2025.7
15°	2890.7	2627.1	2346.2	2236.6	2178.1	2128.7	2091.6	2067.7	2043.0	2021.6	2020.8
17.5°	3067.8	2744.1	2408.0	2271.2	2192.1	2127.1	2076.8	2039.7	2009.3	1982.9	1980.4
20°	3259.0	2849.5	2442.6	2267.9	2165.8	2088.3	2021.6	1975.5	1941.7	1915.3	1911.2
22.5°	3453.4	2948.4	2448.3	2234.2	2107.3	2012.6	1942.5	1891.5	1856.9	1829.7	1819.8
25°	3631.3	3025.0	2424.5	2169.1	2025.7	1923.6	1855.2	1803.3	1775.3	1743.2	1733.3
27.5°	3793.6	3078.6	2376.7	2085.9	1934.3	1833.8	1769.5	1725.0	1694.6	1669.9	1661.6
30°	3939.4	3107.4	2298.4	1987.0	1840.4	1748.9	1694.6	1664.1	1637.7	1606.4	1600.7
32.5°	4077.8	3107.4	2197.9	1879.1	1747.3	1674.0	1641.8	1622.9	1593.2	1562.8	1554.5
35°	4216.2	3088.4	2079.3	1766.2	1661.6	1620.4	1618.8	1596.5	1551.2	1510.0	1499.3
37.5°	4362.0	3049.7	1945.8	1660.8	1591.6	1596.5	1610.5	1561.1	1496.9	1438.4	1422.7
40°	4526.8	2996.2	1807.4	1569.3	1533.1	1585.8	1588.3	1510.0	1384.8	1331.3	1317.3
42.5°	4720.4	2942.6	1678.9	1488.6	1487.0	1553.7	1546.3	1399.6	1324.7	1297.5	1290.1
45°	4975.0	2912.1	1557.0	1412.0	1450.7	1501.8	1474.6	1338.7	1307.4	1291.7	1285.1
47.5°	5376.1	2927.8	1445.0	1351.0	1414.5	1449.9	1341.2	1314.0	1291.7	1272.8	1266.2
50°	5878.7	2918.7	1354.3	1309.0	1373.3	1395.5	1281.0	1281.8	1270.3	1248.9	1239.0
52.5°	6256.8	2847.9	1295.8	1285.1	1337.0	1299.1	1243.1	1250.5	1244.8	1213.5	1202.8
55°	6621.7	2786.9	1266.2	1276.1	1310.7	1178.9	1198.6	1216.8	1211.0	1180.5	1175.6
57.5°	7075.7	2775.4	1248.1	1278.5	1288.4	1118.7	1155.8	1179.7	1175.6	1162.4	1159.9
60°	7631.7	2778.7	1231.6	1282.7	1263.7	1074.2	1115.4	1145.9	1148.4	1145.9	1144.3
62.5°	7937.4	2688.9	1190.4	1271.1	1220.1	1035.5	1073.4	1117.9	1118.7	1123.7	1122.8
65°	7677.9	2420.3	1113.8	1230.8	1146.7	1003.4	1037.2	1085.8	1073.4	1095.7	1095.7
66°	7425.8	2265.5	1075.9	1204.4	1115.4	991.0	1025.6	1069.3	1053.6	1084.1	1084.1
67.5°	6910.9	2004.3	1007.5	1148.4	1070.9	973.7	1012.5	1042.1	1020.7	1066.0	1062.7
70°	5970.1	1550.4	869.9	1021.5	997.6	948.2	994.3	987.7	956.4	1025.6	1012.5
72.5°	5033.4	1178.0	698.6	855.1	886.4	916.1	968.8	918.5	879.0	927.6	898.8
75°	3905.7	885.6	551.9	664.8	748.8	865.8	938.3	838.6	781.8	776.8	761.2
77.5°	2111.4	608.0	437.4	507.5	594.8	803.2	917.7	753.0	667.3	647.5	635.2
80°	836.2	395.4	318.0	384.7	416.0	712.6	868.3	653.3	550.3	530.5	511.6
82.5°	345.2	234.0	205.1	257.9	271.0	609.6	779.3	535.5	425.1	588.2	624.4
85°	148.3	128.5	121.9	133.5	153.2	427.6	620.3	408.6	458.9	409.4	325.4
87.5°	44.5	54.4	51.9	51.1	56.0	102.2	330.3	227.4	336.9	127.7	95.6
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)