

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: P318076

Luminaire Tested: **GAN-SA2B-740-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318076
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-SA2B-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11474 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

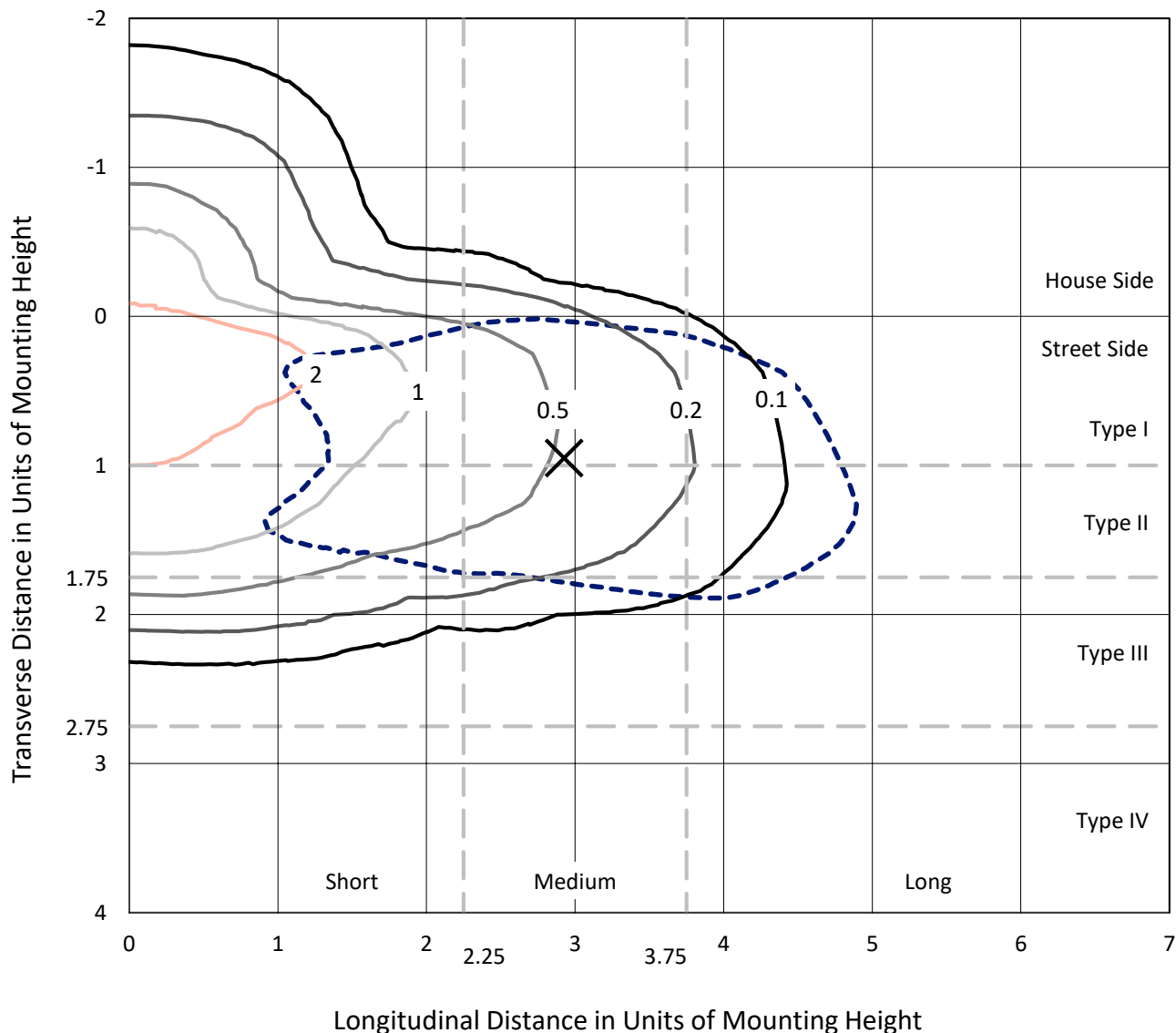
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

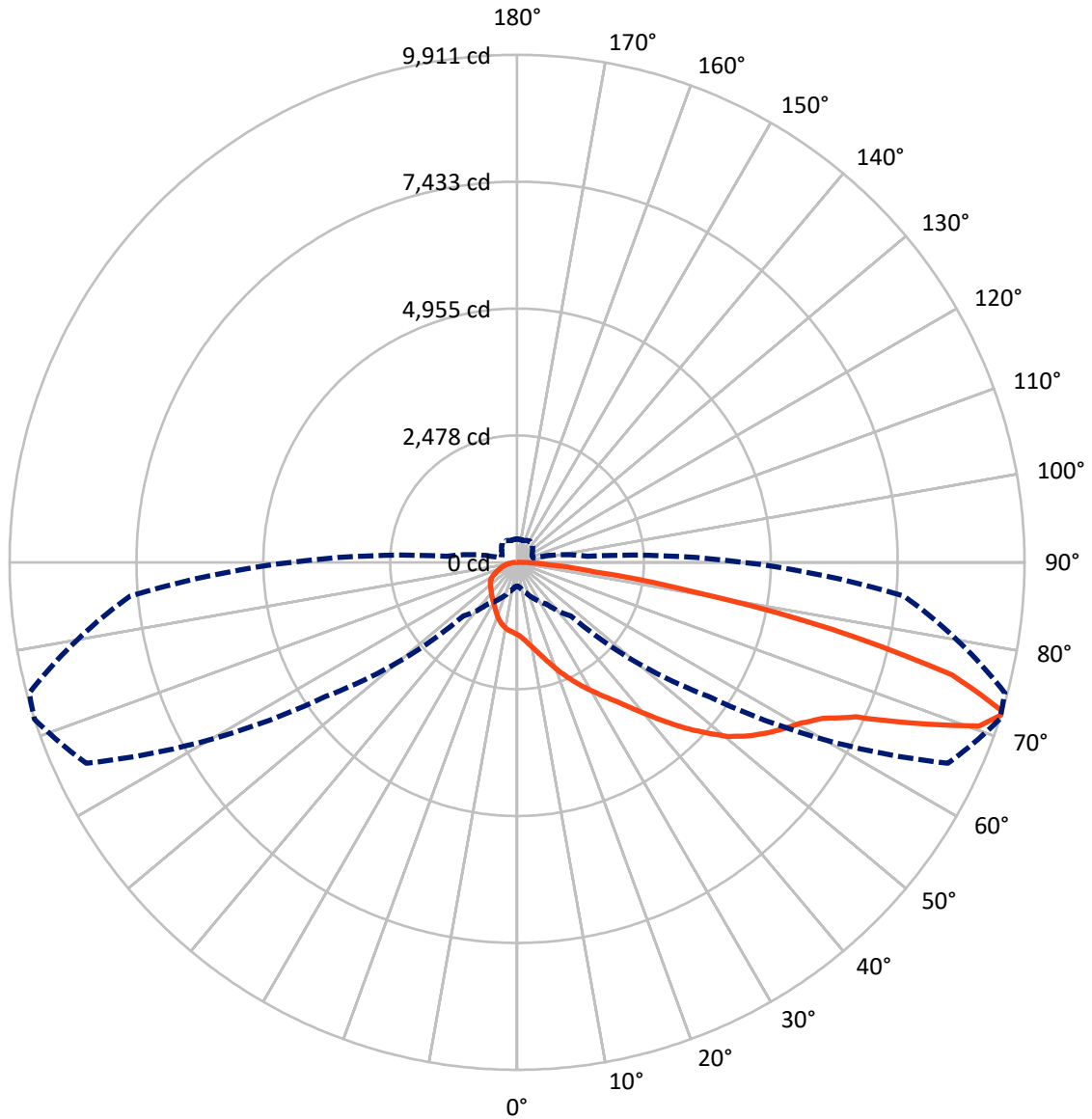
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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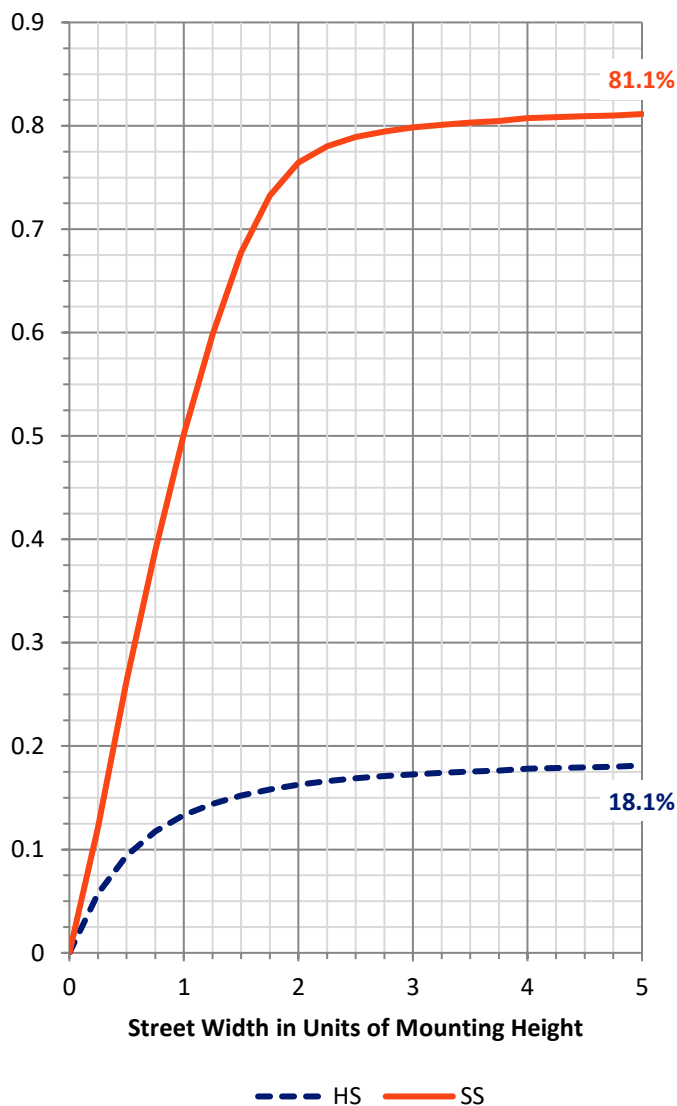
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2128.5	0.0	2128.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	9345.5	0.0	9345.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	11474.0	0.0	11474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	1.2
10°-20°	457.1	4.0
20°-30°	801.0	7.0
30°-40°	1187.6	10.4
40°-50°	1736.9	15.1
50°-60°	2390.0	20.8
60°-70°	2660.8	23.2
70°-80°	1802.9	15.7
80°-90°	296.3	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°	11474.0	100.0
0°-180°	11474.0	100.0

Coefficient of Utilization

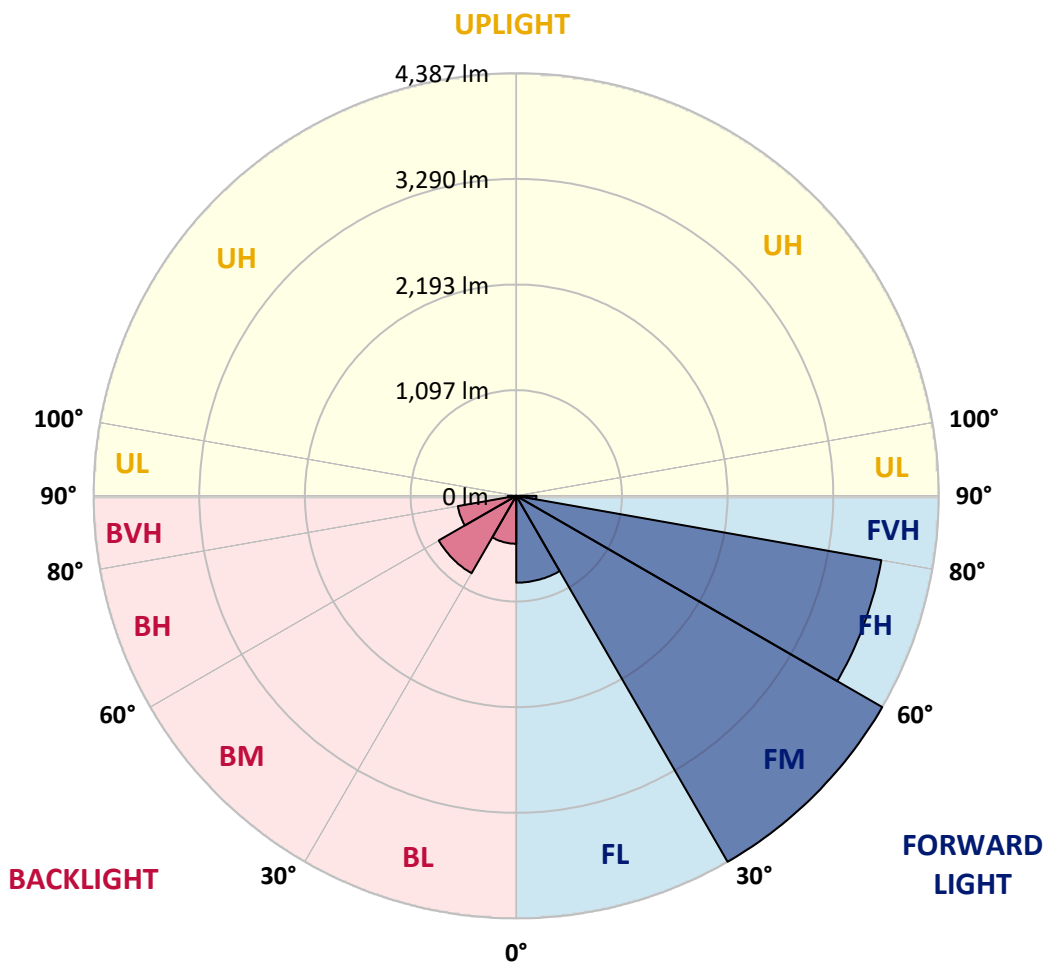


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	901.9	7.9			
FM (30°-60°)	4386.7	38.2			
FH (60°-80°)	3847.9	33.5			G2/5000
FVH (80°-90°)	209.0	1.8			G2/225
BL (0°-30°)	497.6	4.3	B1/500		
BM (30°-60°)	927.8	8.1	B1/1000		
BH (60°-80°)	615.8	5.4	B2/1000		G2/1000
BVH (80°-90°)	87.3	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1411.6	1411.6	1411.6	1411.6	1411.6	1411.6	1411.6	1411.6	1411.6	1411.6	1411.6
2.5°	1559.4	1557.0	1548.7	1548.7	1532.9	1519.5	1494.2	1477.2	1457.0	1449.9	1426.2
5°	1710.3	1711.1	1700.8	1693.7	1670.4	1641.9	1598.9	1559.8	1520.6	1504.8	1456.2
7.5°	1837.1	1835.5	1832.8	1826.8	1805.1	1775.9	1717.8	1659.7	1602.0	1578.3	1494.6
10°	1918.5	1922.0	1924.4	1927.2	1918.1	1897.1	1842.2	1771.5	1696.1	1663.7	1540.4
12.5°	1959.6	1965.9	1977.0	1995.9	2010.9	2008.6	1968.7	1893.6	1803.9	1763.2	1597.7
15°	1983.7	1992.0	2009.3	2043.3	2085.6	2109.7	2099.0	2031.1	1931.1	1880.9	1667.6
17.5°	1998.7	2005.4	2032.3	2077.7	2140.5	2204.5	2232.6	2175.7	2074.9	2017.6	1747.8
20°	2009.0	2014.1	2047.7	2101.0	2182.4	2284.3	2362.5	2348.3	2233.4	2159.1	1831.6
22.5°	2031.9	2036.2	2068.2	2121.9	2212.0	2343.6	2487.8	2509.1	2400.5	2316.3	1921.2
25°	2095.9	2095.9	2122.7	2160.3	2244.8	2394.9	2593.7	2688.1	2571.1	2473.2	2004.2
27.5°	2217.9	2216.8	2226.6	2239.7	2303.7	2447.1	2688.1	2846.1	2748.1	2641.1	2084.8
30°	2362.5	2370.4	2371.6	2365.3	2395.3	2512.3	2775.4	3012.8	2926.3	2811.0	2167.4
32.5°	2548.6	2553.8	2547.8	2526.9	2522.6	2604.7	2861.1	3187.5	3119.1	2988.3	2242.8
35°	2784.9	2775.0	2756.4	2713.8	2673.1	2728.4	2959.1	3362.1	3335.6	3202.9	2346.7
37.5°	3038.1	3038.5	3015.6	2918.8	2862.7	2886.4	3094.2	3560.0	3597.5	3458.1	2479.9
40°	3241.2	3251.9	3266.1	3138.9	3066.2	3099.0	3266.1	3789.6	3907.3	3760.7	2653.3
42.5°	3383.0	3395.3	3435.6	3355.8	3280.3	3341.1	3468.4	4034.5	4255.0	4110.0	2856.4
45°	3533.2	3539.9	3568.3	3533.9	3485.7	3622.8	3696.3	4288.1	4622.8	4482.1	3083.6
47.5°	3691.2	3698.3	3727.5	3704.6	3679.3	3886.0	3934.2	4527.2	4975.2	4891.0	3326.1
50°	3886.3	3891.1	3918.7	3877.3	3885.2	4084.3	4146.7	4746.4	5344.6	5258.4	3569.5
52.5°	4152.6	4153.8	4192.1	4154.6	4117.5	4229.7	4329.6	4953.0	5634.2	5593.5	3812.9
55°	4361.2	4373.9	4499.5	4491.6	4470.3	4361.6	4482.5	5149.8	5892.5	5911.9	4071.2
57.5°	4228.1	4277.5	4531.9	4711.3	4885.9	4689.9	4689.1	5371.4	6132.7	6224.4	4355.3
60°	3703.0	3770.2	4145.1	4543.0	5089.4	5261.2	5118.2	5642.1	6375.3	6534.1	4711.3
62.5°	2644.6	2755.2	3263.3	3898.6	4810.4	5639.7	5991.3	6071.5	6705.2	6892.9	5173.9
65°	1336.9	1420.7	1846.6	2611.8	3843.3	5392.4	6940.3	7011.8	7278.5	7445.2	5886.2
67.5°	812.3	843.9	1051.7	1452.7	2356.2	4200.4	7250.0	8579.0	8387.8	8476.3	6902.0
70°	598.5	621.8	751.4	964.8	1355.1	2464.9	6299.5	9697.5	9571.9	9562.0	7652.6
72°	466.2	483.2	597.7	779.5	990.8	1478.8	4565.9	9284.6	9910.8	9861.1	7583.9
72.5°	442.1	457.1	561.4	733.7	936.3	1340.5	4105.2	9006.1	9886.3	9863.8	7495.0
75°	348.1	358.7	415.6	567.3	732.9	760.5	2249.6	6979.4	8770.3	9134.9	6741.2
77.5°	288.0	289.6	319.6	412.9	571.3	537.7	1105.0	4842.4	6280.1	6681.1	4775.3
80°	234.7	236.6	250.9	289.6	432.2	397.8	524.7	2784.5	3516.2	3520.5	2270.9
82.5°	186.9	187.3	203.1	211.8	310.5	284.5	300.7	1307.3	1536.4	1478.0	816.2
85°	131.6	128.8	198.3	173.8	203.1	182.5	165.9	517.5	635.3	607.6	255.6
87.5°	43.9	45.4	88.1	112.6	118.5	103.5	73.9	198.3	239.8	237.8	81.0
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°	1411.6	1411.6	1411.6	1411.6	1411.6	1411.6	1411.6	1411.6	1411.6	1411.6	1411.6
2.5°	1418.7	1406.1	1387.5	1367.0	1350.8	1334.2	1321.9	1315.6	1308.5	1302.6	1309.7
5°	1433.7	1410.0	1370.5	1331.8	1303.4	1278.1	1259.9	1250.4	1241.7	1235.8	1236.6
7.5°	1458.2	1419.9	1353.5	1297.0	1257.5	1230.3	1211.7	1205.4	1199.8	1198.3	1200.2
10°	1484.3	1427.8	1331.0	1255.9	1210.9	1188.4	1180.1	1184.4	1188.4	1191.9	1195.9
12.5°	1513.9	1434.9	1298.2	1207.7	1169.4	1160.7	1169.0	1188.0	1201.8	1210.1	1215.2
15°	1552.6	1441.2	1260.3	1159.5	1133.9	1143.7	1171.8	1204.6	1228.7	1244.1	1246.5
17.5°	1588.2	1440.8	1211.7	1110.9	1105.0	1133.9	1176.1	1222.4	1254.8	1276.5	1280.8
20°	1624.9	1430.2	1155.2	1063.5	1075.8	1123.2	1178.1	1233.8	1272.9	1298.2	1304.1
22.5°	1659.3	1411.6	1093.2	1020.5	1051.3	1109.0	1170.6	1227.1	1266.2	1286.8	1293.1
25°	1682.6	1379.2	1030.4	984.1	1029.6	1091.6	1146.1	1191.5	1220.8	1231.1	1232.6
27.5°	1694.5	1336.9	971.1	952.5	1007.0	1063.1	1100.7	1123.2	1131.5	1130.7	1129.1
30°	1696.1	1281.2	920.1	926.8	981.0	1021.3	1039.0	1034.7	1024.0	1005.9	1007.4
32.5°	1690.9	1218.4	877.5	902.4	947.8	970.3	971.1	950.2	921.7	892.9	885.0
35°	1692.5	1156.8	839.9	874.7	907.5	917.4	908.3	877.5	838.7	801.6	793.7
37.5°	1709.9	1103.0	807.5	842.7	862.8	865.2	852.2	819.8	791.3	755.0	751.8
40°	1751.4	1064.7	776.7	806.7	818.2	819.4	800.8	777.9	780.3	760.9	760.5
42.5°	1826.0	1048.1	749.5	769.2	776.3	778.7	764.5	749.9	770.4	757.8	753.4
45°	1922.4	1052.1	726.5	732.5	745.5	756.6	747.9	730.1	738.0	683.1	664.9
47.5°	2033.8	1077.4	708.4	700.9	723.4	744.3	730.9	704.0	676.0	621.5	611.2
50°	2164.2	1116.5	691.8	669.7	699.3	727.7	714.3	676.0	633.7	607.2	603.7
52.5°	2300.1	1164.3	675.2	635.3	668.9	715.1	708.4	669.7	617.5	591.4	586.7
55°	2454.2	1212.5	654.2	595.4	636.1	709.2	705.6	646.7	605.3	590.6	587.1
57.5°	2645.8	1267.4	626.6	553.9	605.3	687.8	676.8	632.9	592.6	581.5	580.4
60°	2895.5	1348.4	586.7	509.6	567.7	655.0	652.7	612.8	572.5	564.6	563.0
62.5°	3270.0	1482.3	531.8	465.4	525.8	599.3	621.1	585.5	551.1	550.7	551.5
65°	3850.8	1683.8	472.1	426.7	483.6	552.3	584.3	557.5	529.4	537.3	538.5
67.5°	4524.0	1850.9	413.6	388.8	440.5	507.7	551.1	529.4	500.6	521.1	521.5
70°	4748.0	1701.6	362.3	351.2	395.9	464.6	515.2	498.6	469.3	489.9	487.9
72°	4418.5	1373.7	329.1	322.8	362.3	429.1	483.2	469.7	440.9	454.7	449.6
72.5°	4314.6	1309.7	320.8	315.7	353.2	420.0	474.9	462.6	433.8	445.6	440.9
75°	3848.8	1137.4	275.8	276.9	308.2	375.7	428.3	424.3	394.7	395.9	394.3
77.5°	2791.6	834.0	232.3	240.2	262.3	330.3	381.2	378.9	346.5	340.6	339.4
80°	1295.4	425.5	189.2	192.8	215.7	276.2	325.1	322.0	295.9	288.4	284.1
82.5°	443.7	202.3	142.2	144.6	167.1	222.4	282.1	280.1	258.4	243.8	234.7
85°	158.4	100.7	99.6	97.2	119.3	175.0	245.7	235.1	203.1	173.0	172.3
87.5°	51.4	43.1	51.4	51.0	69.5	118.5	178.6	152.1	147.4	122.5	120.1
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)