

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: P318066

Luminaire Tested: **GAN-SA2A-740-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318066
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-SA2A-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9357 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

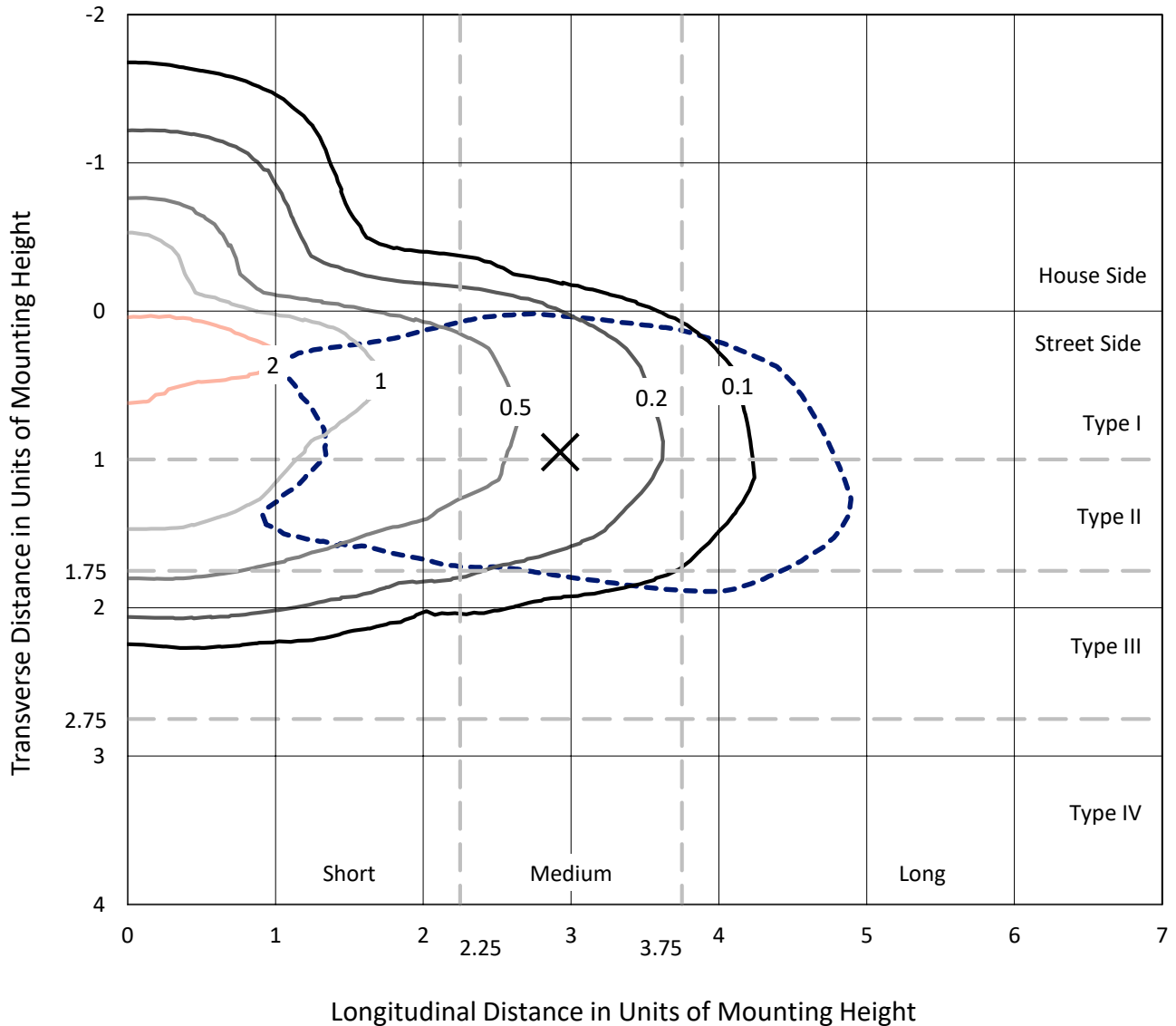
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

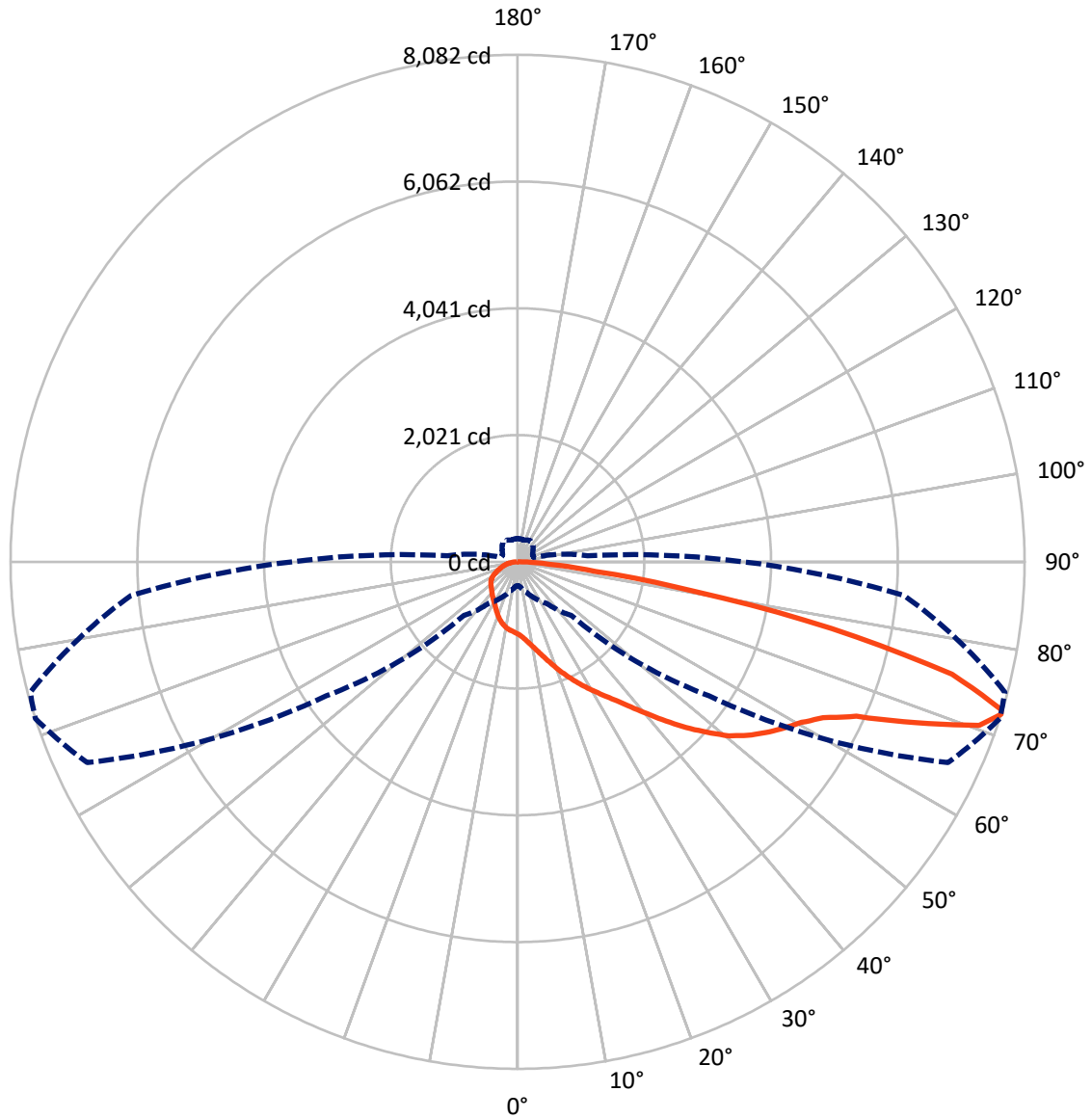
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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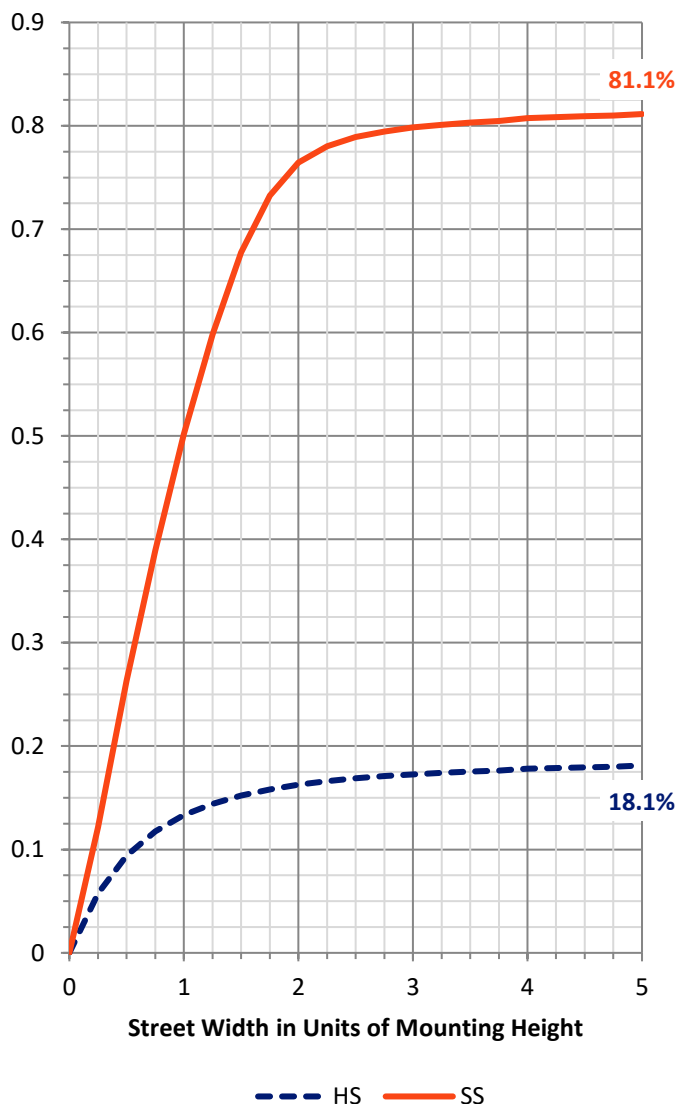
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1735.8	0.0	1735.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	7621.2	0.0	7621.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	9357.0	0.0	9357.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	1.2
10°-20°	372.8	4.0
20°-30°	653.2	7.0
30°-40°	968.5	10.4
40°-50°	1416.5	15.1
50°-60°	1949.0	20.8
60°-70°	2169.8	23.2
70°-80°	1470.3	15.7
80°-90°	241.7	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°	9357.0	100.0
0°-180°	9357.0	100.0

Coefficient of Utilization

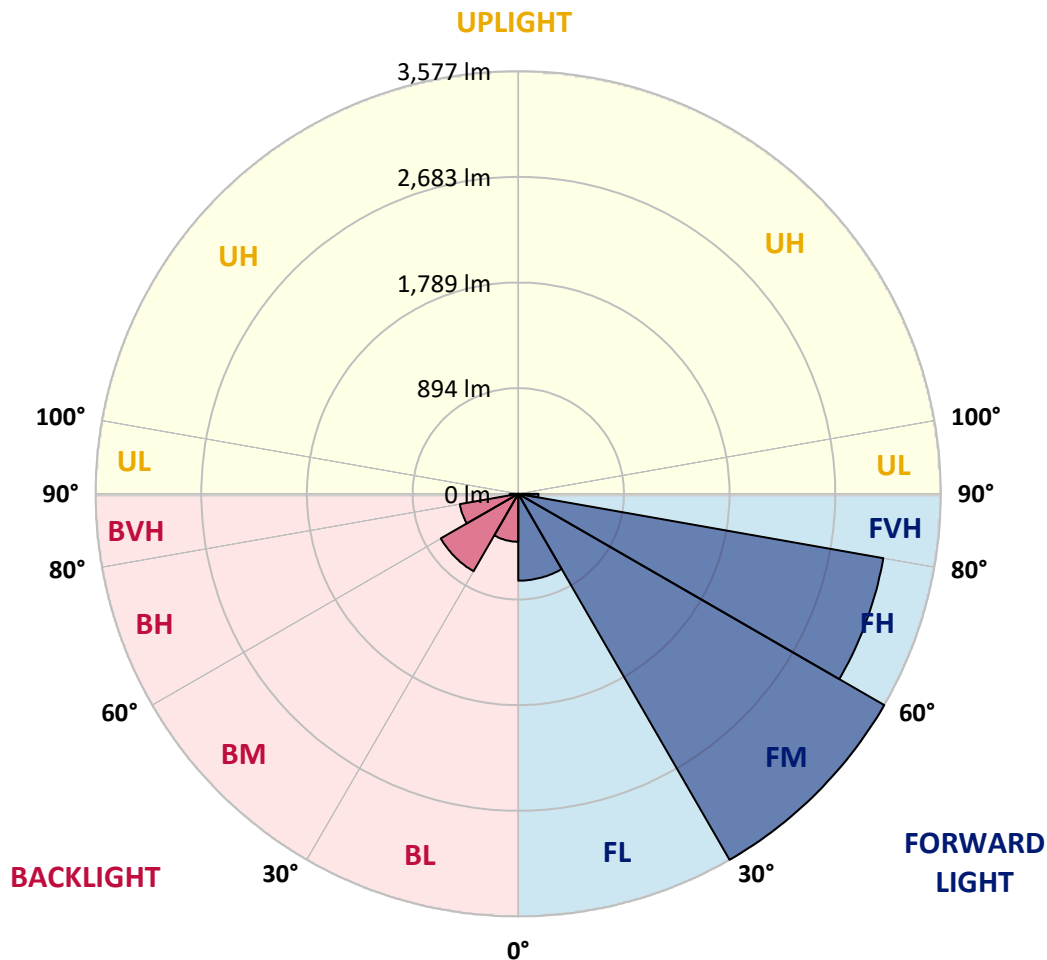


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	735.5	7.9			
FM (30°-60°)	3577.3	38.2			
FH (60°-80°)	3137.9	33.5			G2/5000
FVH (80°-90°)	170.5	1.8			G2/225
BL (0°-30°)	405.8	4.3	B1/500		
BM (30°-60°)	756.6	8.1	B1/1000		
BH (60°-80°)	502.2	5.4	B2/1000		G2/1000
BVH (80°-90°)	71.2	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°	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2
2.5°	1271.7	1269.7	1263.0	1263.0	1250.1	1239.1	1218.5	1204.6	1188.2	1182.4	1163.1
5°	1394.7	1395.4	1387.0	1381.2	1362.2	1339.0	1303.9	1272.0	1240.1	1227.2	1187.6
7.5°	1498.1	1496.9	1494.6	1489.8	1472.0	1448.2	1400.8	1353.5	1306.4	1287.1	1218.8
10°	1564.5	1567.4	1569.3	1571.6	1564.2	1547.1	1502.3	1444.7	1383.1	1356.7	1256.2
12.5°	1598.0	1603.2	1612.2	1627.7	1639.9	1638.0	1605.4	1544.2	1471.1	1437.9	1302.9
15°	1617.7	1624.4	1638.6	1666.3	1700.8	1720.5	1711.8	1656.3	1574.8	1533.9	1359.9
17.5°	1629.9	1635.4	1657.3	1694.4	1745.6	1797.8	1820.6	1774.3	1692.1	1645.4	1425.3
20°	1638.3	1642.5	1669.9	1713.4	1779.7	1862.9	1926.6	1915.0	1821.3	1760.7	1493.6
22.5°	1657.0	1660.5	1686.6	1730.4	1803.9	1911.2	2028.8	2046.2	1957.6	1889.0	1566.8
25°	1709.2	1709.2	1731.1	1761.7	1830.6	1953.1	2115.1	2192.1	2096.8	2016.9	1634.4
27.5°	1808.7	1807.8	1815.8	1826.4	1878.6	1995.6	2192.1	2321.0	2241.1	2153.8	1700.2
30°	1926.6	1933.1	1934.1	1928.9	1953.4	2048.8	2263.3	2457.0	2386.4	2292.3	1767.5
32.5°	2078.4	2082.6	2077.7	2060.7	2057.1	2124.1	2333.2	2599.4	2543.6	2437.0	1829.0
35°	2271.1	2263.0	2247.9	2213.1	2179.9	2225.0	2413.1	2741.8	2720.2	2611.9	1913.8
37.5°	2477.6	2477.9	2459.2	2380.3	2334.5	2353.9	2523.3	2903.2	2933.8	2820.1	2022.3
40°	2643.2	2651.9	2663.5	2559.7	2500.5	2527.2	2663.5	3090.4	3186.4	3066.8	2163.8
42.5°	2758.8	2768.8	2801.7	2736.6	2675.1	2724.7	2828.4	3290.1	3469.9	3351.7	2329.4
45°	2881.3	2886.7	2909.9	2881.9	2842.6	2954.4	3014.3	3497.0	3769.8	3655.2	2514.6
47.5°	3010.1	3015.9	3039.8	3021.1	3000.5	3169.0	3208.3	3691.9	4057.2	3988.6	2712.4
50°	3169.3	3173.2	3195.7	3161.9	3168.3	3330.7	3381.6	3870.7	4358.5	4288.2	2910.9
52.5°	3386.5	3387.4	3418.7	3388.1	3357.8	3449.3	3530.8	4039.2	4594.6	4561.4	3109.4
55°	3556.6	3566.9	3669.3	3662.9	3645.5	3556.9	3655.5	4199.6	4805.3	4821.1	3320.1
57.5°	3448.0	3488.3	3695.7	3842.0	3984.4	3824.6	3824.0	4380.4	5001.2	5076.0	3551.7
60°	3019.8	3074.6	3380.3	3704.8	4150.3	4290.5	4173.9	4601.1	5199.0	5328.6	3842.0
62.5°	2156.7	2246.9	2661.2	3179.3	3922.9	4599.1	4885.9	4951.3	5468.1	5621.1	4219.3
65°	1090.3	1158.6	1505.9	2129.9	3134.2	4397.5	5659.8	5718.1	5935.6	6071.5	4800.2
67.5°	662.4	688.2	857.6	1184.7	1921.5	3425.4	5912.4	6996.2	6840.2	6912.4	5628.5
70°	488.1	507.1	612.8	786.8	1105.1	2010.1	5137.2	7908.3	7805.8	7797.8	6240.7
72°	380.2	394.0	487.5	635.7	808.0	1205.9	3723.5	7571.6	8082.2	8041.7	6184.6
72.5°	360.5	372.8	457.8	598.3	763.6	1093.2	3347.8	7344.5	8062.3	8043.9	6112.1
75°	283.8	292.5	338.9	462.7	597.6	620.2	1834.5	5691.7	7152.1	7449.5	5497.4
77.5°	234.9	236.2	260.6	336.7	465.9	438.5	901.1	3949.0	5121.4	5448.4	3894.2
80°	191.4	193.0	204.6	236.2	352.5	324.4	427.9	2270.7	2867.4	2871.0	1851.9
82.5°	152.4	152.7	165.6	172.7	253.2	232.0	245.2	1066.1	1253.0	1205.3	665.6
85°	107.3	105.0	161.7	141.8	165.6	148.8	135.3	422.1	518.1	495.5	208.5
87.5°	35.8	37.1	71.8	91.8	96.7	84.4	60.2	161.7	195.6	194.0	66.0
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°	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2
2.5°	1157.0	1146.6	1131.5	1114.7	1101.5	1088.0	1078.0	1072.9	1067.1	1062.2	1068.0
5°	1169.2	1149.9	1117.6	1086.1	1062.9	1042.3	1027.4	1019.7	1012.6	1007.8	1008.4
7.5°	1189.2	1157.9	1103.8	1057.7	1025.5	1003.3	988.1	983.0	978.5	977.2	978.8
10°	1210.4	1164.4	1085.4	1024.2	987.5	969.1	962.4	965.9	969.1	972.0	975.2
12.5°	1234.6	1170.2	1058.7	984.9	953.7	946.6	953.3	968.8	980.1	986.8	991.0
15°	1266.2	1175.3	1027.8	945.6	924.7	932.7	955.6	982.3	1002.0	1014.6	1016.5
17.5°	1295.2	1175.0	988.1	906.0	901.1	924.7	959.1	996.8	1023.2	1041.0	1044.5
20°	1325.1	1166.3	942.1	867.3	877.3	916.0	960.7	1006.2	1038.1	1058.7	1063.5
22.5°	1353.2	1151.2	891.5	832.2	857.3	904.4	954.6	1000.7	1032.6	1049.3	1054.5
25°	1372.2	1124.7	840.2	802.6	839.6	890.2	934.6	971.7	995.5	1003.9	1005.2
27.5°	1381.8	1090.3	791.9	776.8	821.2	867.0	897.6	916.0	922.7	922.1	920.8
30°	1383.1	1044.8	750.4	755.8	800.0	832.8	847.3	843.8	835.1	820.3	821.6
32.5°	1378.9	993.6	715.6	735.9	772.9	791.3	791.9	774.8	751.6	728.1	721.7
35°	1380.2	943.3	685.0	713.3	740.1	748.1	740.7	715.6	684.0	653.7	647.3
37.5°	1394.4	899.5	658.5	687.2	703.6	705.6	694.9	668.5	645.3	615.7	613.1
40°	1428.2	868.3	633.4	657.9	667.2	668.2	653.1	634.4	636.3	620.5	620.2
42.5°	1489.1	854.7	611.2	627.3	633.1	635.0	623.4	611.5	628.3	617.9	614.4
45°	1567.7	858.0	592.5	597.3	608.0	617.0	609.9	595.4	601.8	557.1	542.2
47.5°	1658.6	878.6	577.7	571.6	589.9	607.0	596.0	574.1	551.3	506.8	498.4
50°	1764.9	910.5	564.1	546.1	570.3	593.5	582.5	551.3	516.8	495.2	492.3
52.5°	1875.7	949.5	550.6	518.1	545.5	583.1	577.7	546.1	503.6	482.3	478.4
55°	2001.4	988.8	533.5	485.5	518.7	578.3	575.4	527.4	493.6	481.7	478.8
57.5°	2157.7	1033.6	511.0	451.7	493.6	560.9	551.9	516.1	483.3	474.3	473.3
60°	2361.3	1099.6	478.4	415.6	463.0	534.2	532.2	499.7	466.8	460.4	459.1
62.5°	2666.7	1208.8	433.7	379.5	428.8	488.7	506.5	477.5	449.4	449.1	449.8
65°	3140.3	1373.1	385.0	348.0	394.4	450.4	476.5	454.6	431.7	438.2	439.1
67.5°	3689.3	1509.4	337.3	317.0	359.2	414.0	449.4	431.7	408.2	425.0	425.3
70°	3872.0	1387.6	295.4	286.4	322.8	378.9	420.1	406.6	382.8	399.5	397.9
72°	3603.3	1120.2	268.4	263.2	295.4	349.9	394.0	383.1	359.6	370.8	366.6
72.5°	3518.5	1068.0	261.6	257.4	288.0	342.5	387.3	377.3	353.8	363.4	359.6
75°	3138.7	927.6	224.9	225.8	251.3	306.4	349.2	346.0	321.9	322.8	321.5
77.5°	2276.5	680.1	189.4	195.9	213.9	269.3	310.9	309.0	282.6	277.7	276.8
80°	1056.4	347.0	154.3	157.2	175.9	225.2	265.2	262.6	241.3	235.2	231.6
82.5°	361.8	165.0	116.0	117.9	136.3	181.4	230.0	228.4	210.7	198.8	191.4
85°	129.2	82.2	81.2	79.3	97.3	142.7	200.4	191.7	165.6	141.1	140.5
87.5°	41.9	35.1	41.9	41.6	56.7	96.7	145.6	124.0	120.2	99.9	97.9
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)