

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: P322837

Luminaire Tested: **GAN-SA3B-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322837
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11514 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

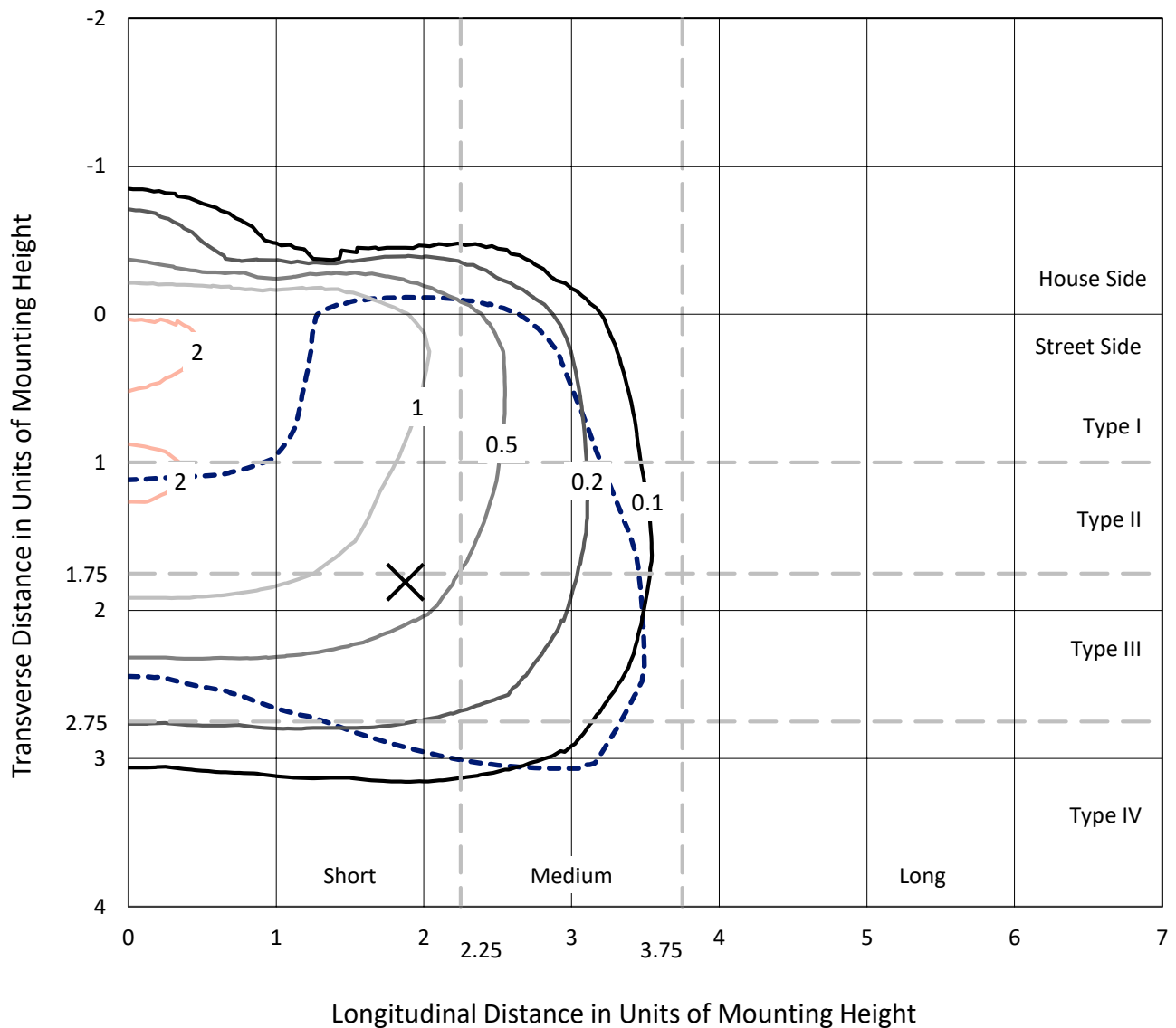
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

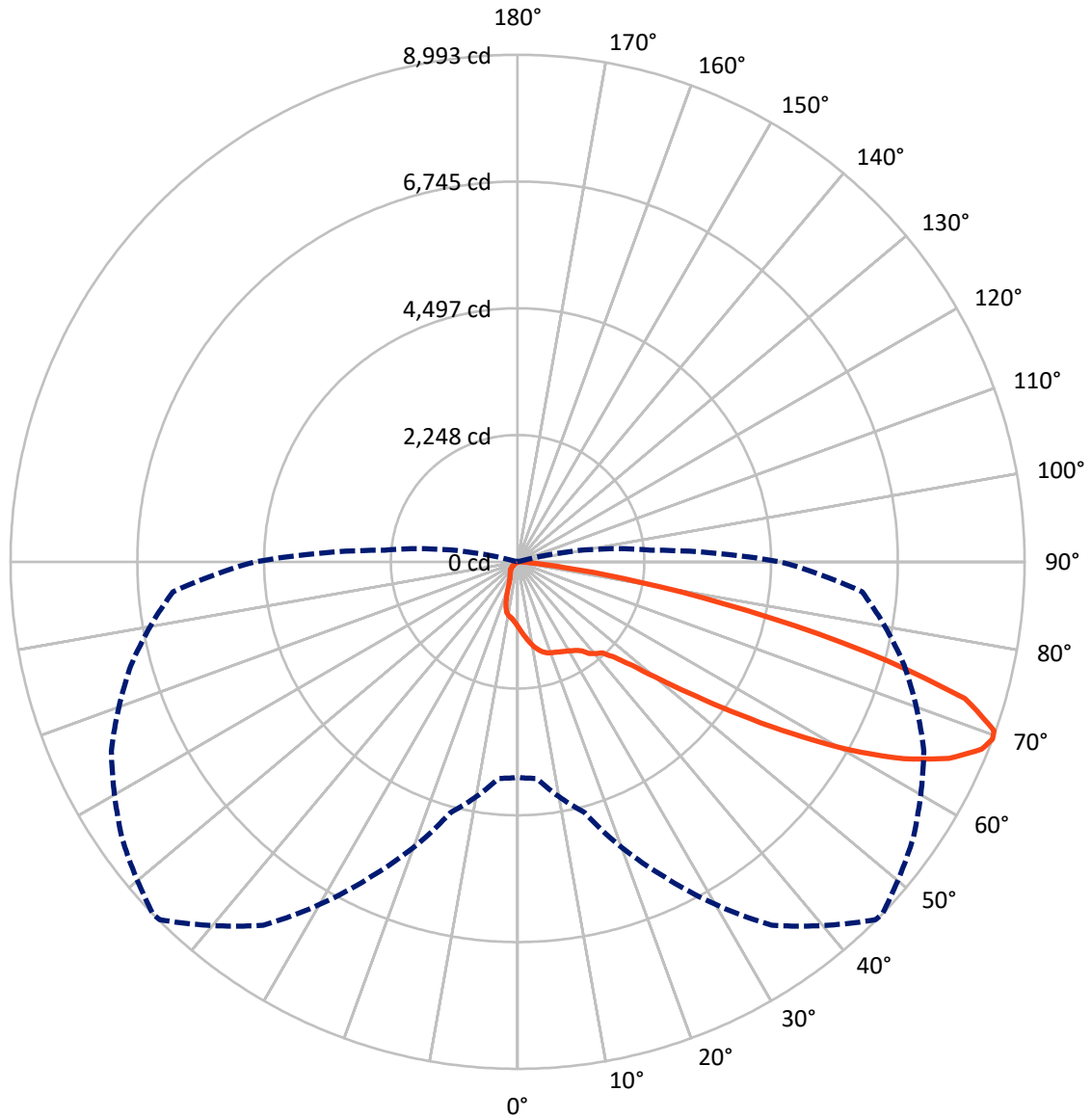
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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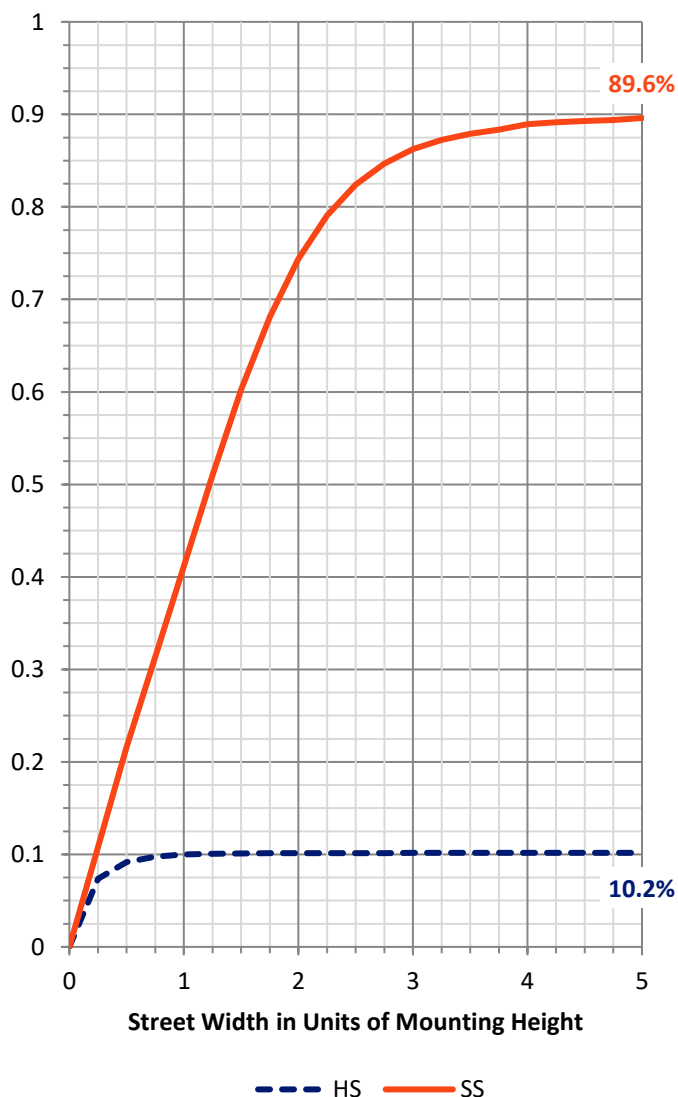
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1181.7	0.0	1181.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	10332.4	0.0	10332.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	11514.0	0.0	11514.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	1.0
10°-20°	348.4	3.0
20°-30°	547.9	4.8
30°-40°	785.6	6.8
40°-50°	1357.9	11.8
50°-60°	2682.6	23.3
60°-70°	3749.2	32.6
70°-80°	1811.3	15.7
80°-90°	116.4	1.0
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°	11514.0	100.0
0°-180°	11514.0	100.0

Coefficient of Utilization



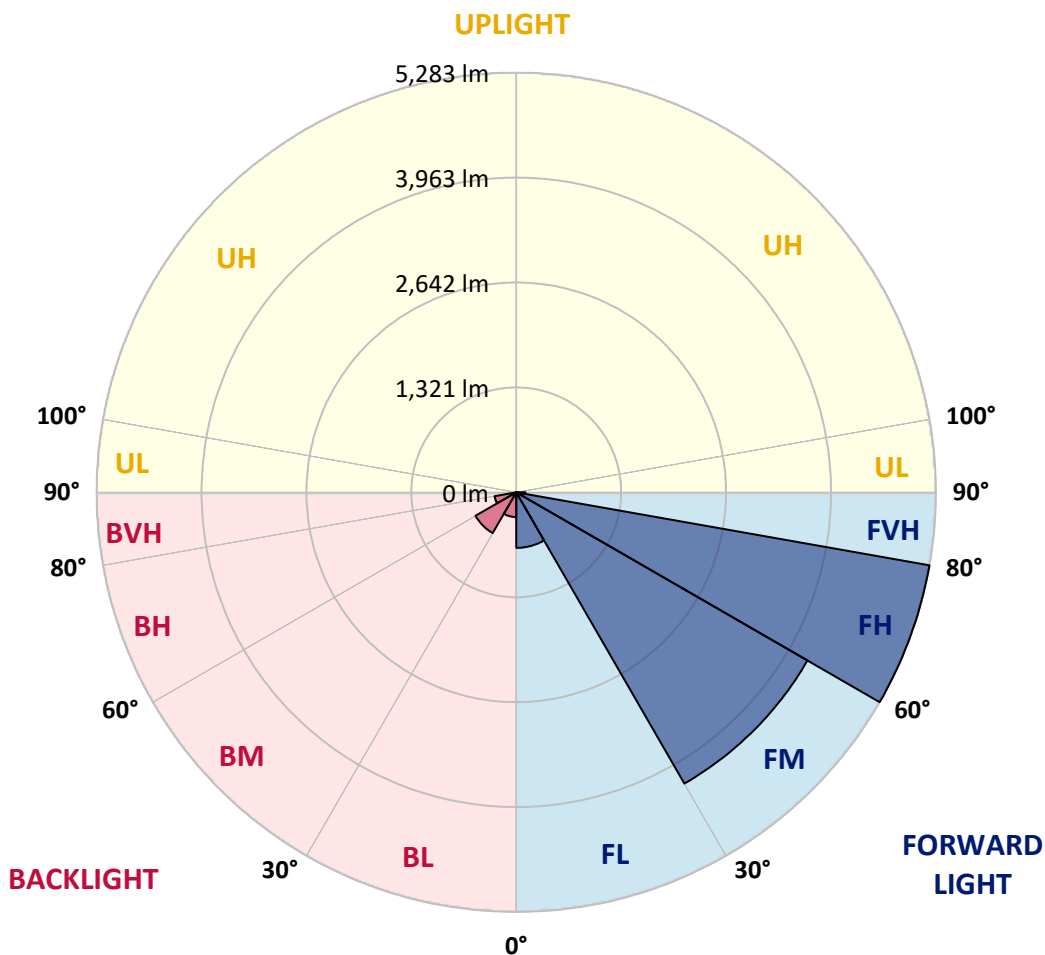
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	699.6	6.1			
FM (30°-60°)	4234.0	36.8			
FH (60°-80°)	5283.3	45.9			G3/7500
FVH (80°-90°)	115.4	1.0			G2/225
BL (0°-30°)	311.4	2.7	B1/500		
BM (30°-60°)	592.2	5.1	B1/1000		
BH (60°-80°)	277.1	2.4	B1/500		G1/500
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1153.7	1153.7	1153.7	1153.7	1153.7	1153.7	1153.7	1153.7	1153.7	1153.7	1153.7
2.5°	1281.6	1280.0	1272.4	1269.2	1250.8	1240.0	1235.7	1222.2	1202.8	1183.4	1161.8
5°	1427.4	1426.8	1412.8	1399.3	1364.7	1332.4	1326.4	1295.1	1251.4	1210.3	1169.3
7.5°	1576.4	1569.3	1555.3	1529.4	1479.2	1427.4	1422.5	1378.2	1316.2	1256.8	1197.9
10°	1702.7	1698.4	1680.0	1640.6	1581.8	1522.9	1517.0	1462.5	1392.3	1319.4	1244.4
12.5°	1800.9	1797.7	1773.4	1724.3	1661.7	1600.7	1592.6	1544.0	1468.9	1387.4	1298.9
15°	1860.9	1859.2	1829.6	1777.2	1715.6	1662.7	1655.7	1613.1	1543.4	1458.1	1358.3
17.5°	1874.9	1875.4	1844.7	1791.8	1741.0	1703.2	1697.8	1665.4	1607.1	1522.4	1417.6
20°	1843.6	1850.1	1822.5	1776.6	1745.3	1725.4	1721.0	1701.6	1652.5	1572.6	1465.2
22.5°	1799.3	1802.6	1783.7	1752.9	1739.9	1743.7	1741.6	1730.8	1689.2	1615.8	1512.1
25°	1772.3	1772.3	1761.0	1735.1	1743.7	1766.9	1767.5	1765.3	1732.4	1668.7	1569.3
27.5°	1771.2	1768.0	1755.1	1735.6	1759.4	1795.0	1797.2	1811.7	1791.2	1732.9	1640.6
30°	1814.4	1810.7	1783.1	1757.8	1788.0	1826.3	1831.7	1863.6	1853.3	1802.6	1720.0
32.5°	1915.4	1901.9	1840.9	1799.3	1822.0	1867.9	1874.9	1925.6	1941.8	1888.4	1796.6
35°	2053.6	2010.9	1922.9	1878.1	1880.3	1928.3	1934.8	2009.3	2057.4	1967.2	1856.0
37.5°	2244.2	2223.1	2080.0	1960.2	1969.9	2042.8	2061.7	2142.7	2129.2	2010.4	1923.5
40°	2662.0	2629.1	2476.8	2190.2	2055.7	2135.6	2141.6	2184.8	2185.9	2108.1	2063.8
42.5°	3231.0	3217.5	3057.2	2607.5	2224.7	2197.7	2208.5	2281.4	2362.9	2314.3	2312.2
45°	3861.0	3854.0	3683.9	3161.4	2566.4	2401.3	2414.7	2512.5	2668.5	2679.3	2747.8
47.5°	4367.9	4364.7	4267.0	3779.5	3089.6	2746.2	2750.5	2854.2	3128.4	3263.9	3373.5
50°	4830.0	4845.7	4768.5	4448.4	3802.2	3286.6	3276.4	3345.5	3786.0	4007.8	4143.9
52.5°	5472.5	5494.6	5278.1	5072.4	4549.9	3957.1	3949.0	4021.3	4576.3	4742.6	4766.9
55°	6039.8	6002.1	5830.9	5771.5	5461.7	4785.2	4783.1	4846.8	5340.7	5411.5	5456.3
57.5°	6290.3	6275.8	6358.4	6494.4	6416.7	5764.0	5759.1	5710.5	6024.7	6032.3	6169.9
60°	6448.5	6466.3	6719.5	7139.0	7332.8	6817.2	6785.9	6489.5	6677.9	6661.2	6808.6
62.5°	6329.7	6364.8	6820.5	7519.6	8018.4	7736.6	7692.3	7203.2	7236.2	7178.4	7315.5
65°	5699.2	5753.7	6500.3	7447.8	8358.5	8455.1	8410.3	7833.2	7679.4	7584.4	7508.2
67.5°	4627.6	4660.0	5439.5	6823.2	8205.2	8883.8	8874.6	8385.5	8014.1	7515.8	6925.2
69°	3824.3	3856.1	4606.5	6165.6	7867.8	8975.5	8993.4	8562.6	7950.4	7099.0	6135.9
70°	3239.1	3273.1	3972.2	5602.0	7476.4	8932.9	8964.8	8545.8	7767.9	6616.4	5443.3
72.5°	1698.9	1728.1	2445.5	3859.4	6094.9	8202.5	8299.1	7823.5	6584.6	4805.2	3218.6
75°	533.9	550.6	955.0	2017.4	4173.0	6377.8	6399.9	6137.0	4675.6	2643.1	1340.4
77.5°	203.5	198.7	318.0	743.4	2109.7	4015.9	4151.4	3835.1	2453.6	934.5	309.3
80°	109.6	110.1	165.2	307.7	902.6	2063.8	2178.3	1858.7	871.9	291.5	71.3
82.5°	47.5	49.7	92.9	163.0	414.6	761.2	818.4	681.3	333.1	196.0	26.5
85°	10.3	11.3	44.8	88.5	169.0	213.8	224.0	220.8	212.2	152.2	10.3
87.5°	0.0	0.0	20.0	31.9	42.6	48.6	42.6	55.6	117.1	102.6	5.4
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°	1153.7	1153.7	1153.7	1153.7	1153.7	1153.7	1153.7	1153.7	1153.7	1153.7	1153.7
2.5°	1154.7	1145.0	1128.3	1109.9	1097.0	1083.5	1072.7	1067.8	1062.4	1058.6	1063.5
5°	1152.6	1133.7	1101.3	1070.0	1047.3	1029.0	1013.8	1007.9	1002.0	997.6	997.1
7.5°	1171.5	1145.0	1095.4	1049.5	1014.4	989.5	969.0	960.4	953.4	950.1	947.4
10°	1207.6	1173.6	1107.2	1047.3	1002.0	959.9	915.6	881.6	859.4	849.2	845.4
12.5°	1254.6	1212.0	1129.9	1058.6	992.8	911.8	817.9	736.9	684.5	667.3	657.0
15°	1309.7	1256.8	1159.6	1073.2	959.3	811.4	652.1	546.3	497.7	488.0	477.2
17.5°	1362.6	1304.3	1195.2	1075.9	885.9	648.4	477.8	406.0	387.1	393.6	395.2
20°	1409.0	1351.2	1230.3	1052.2	752.6	486.4	369.8	352.0	359.0	371.4	373.6
22.5°	1456.0	1396.6	1262.7	989.5	582.0	369.3	333.1	337.4	344.4	356.8	359.0
25°	1513.2	1451.7	1292.9	874.6	436.7	314.2	316.4	322.8	329.8	341.2	342.3
27.5°	1579.1	1521.3	1312.9	725.0	323.9	288.8	295.8	305.6	312.6	323.4	325.5
30°	1666.5	1613.1	1319.4	570.1	271.5	266.1	269.4	281.3	291.5	301.2	302.9
32.5°	1748.6	1703.8	1297.8	430.3	251.6	245.1	245.1	252.1	264.0	273.2	275.3
35°	1824.2	1795.0	1228.7	314.7	236.5	225.7	220.3	220.3	227.8	235.4	237.5
37.5°	1924.0	1922.9	1116.9	251.0	221.9	209.5	198.1	189.5	186.8	188.4	189.5
40°	2095.2	2096.8	971.2	225.1	209.5	192.7	175.5	159.8	145.2	140.4	139.8
42.5°	2362.4	2338.1	818.4	212.7	198.7	175.5	149.5	128.5	105.8	98.8	98.3
45°	2786.7	2642.6	656.5	201.4	187.3	156.0	123.6	95.0	76.7	71.3	71.3
47.5°	3404.8	3042.6	508.5	188.9	172.2	133.9	93.4	68.6	56.1	53.4	54.0
50°	4044.0	3434.5	389.8	173.3	153.9	110.7	69.1	49.7	42.6	42.6	43.2
52.5°	4610.9	3721.7	303.9	156.6	131.2	86.9	52.4	38.9	35.6	35.1	35.6
55°	5141.5	3906.9	232.7	137.1	104.2	64.8	39.9	31.9	29.7	28.6	28.1
57.5°	5653.3	3998.7	174.4	110.7	75.6	47.0	31.9	27.0	24.8	23.2	22.7
60°	5994.0	3924.2	119.8	81.5	52.4	34.0	26.5	23.2	20.5	18.9	18.4
62.5°	6186.1	3720.6	77.2	58.8	37.2	25.4	21.1	19.4	15.7	14.0	14.0
65°	6108.4	3384.9	54.0	42.1	27.0	18.9	15.7	15.7	11.3	9.2	8.6
67.5°	5413.1	2859.6	41.0	31.3	19.4	14.0	11.9	13.5	7.0	4.3	4.3
69°	4657.3	2369.9	35.1	25.9	16.2	11.3	10.3	12.4	4.9	3.2	2.7
70°	4047.8	2044.4	31.9	22.7	13.5	9.7	9.2	11.9	4.9	2.7	2.2
72.5°	2421.8	1140.2	24.3	16.2	8.6	7.6	7.6	13.5	4.9	2.7	2.2
75°	978.7	401.6	17.8	11.3	6.5	6.5	9.2	17.3	4.3	2.2	1.6
77.5°	221.9	88.0	10.3	7.0	4.3	6.5	10.8	13.5	2.7	1.1	0.0
80°	54.0	21.6	6.5	4.3	2.7	4.9	8.1	7.6	0.5	0.0	0.0
82.5°	17.8	7.6	2.7	2.2	0.5	1.6	3.8	2.2	0.0	0.0	0.0
85°	7.6	4.3	1.1	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0
87.5°	4.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)