

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: P322896

Luminaire Tested: **GAN-SA2D-740-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322896
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-SA2D-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA 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: 11506 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

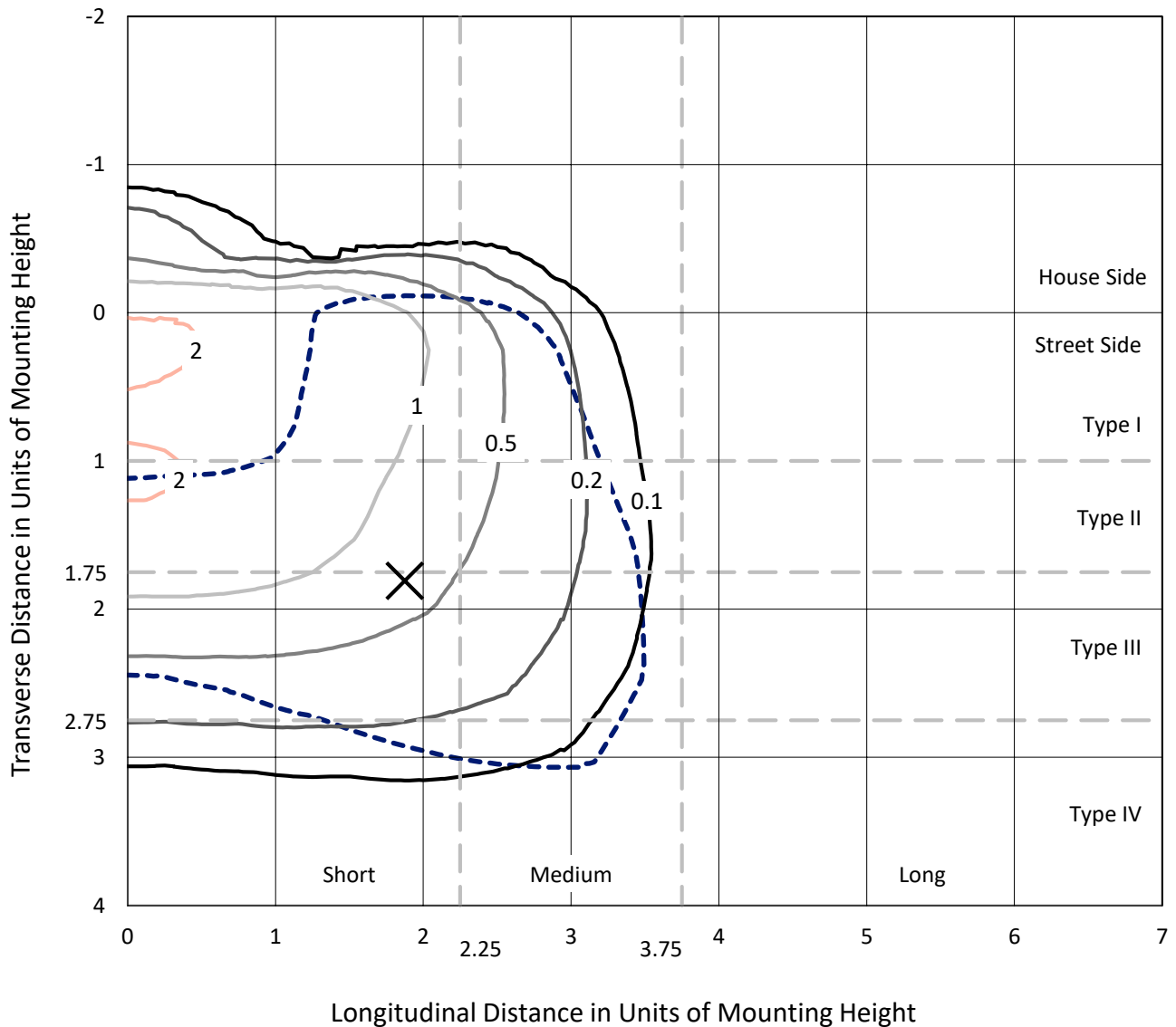
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

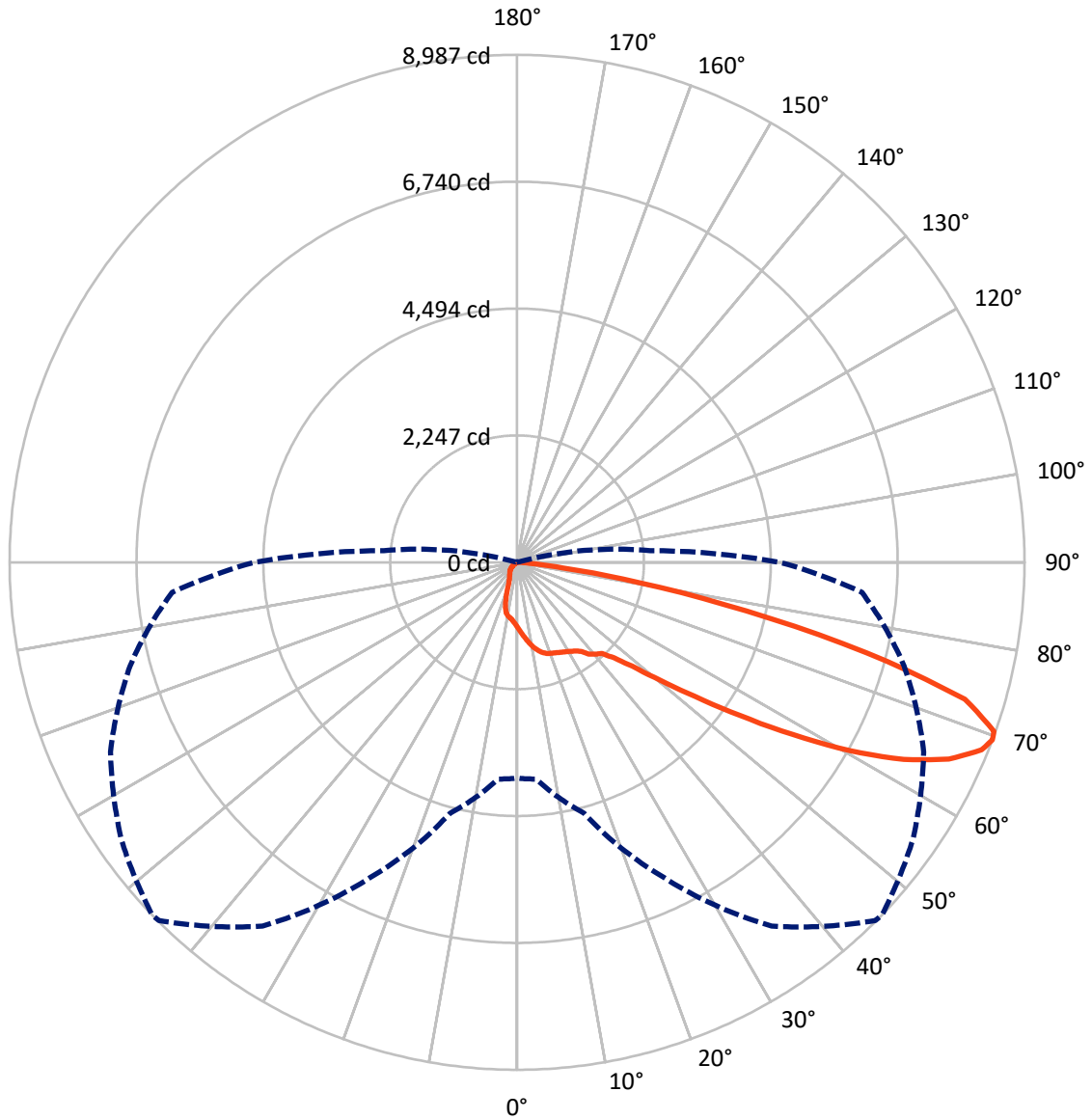
✕ Max cd
 - - - 1/2 Max cd



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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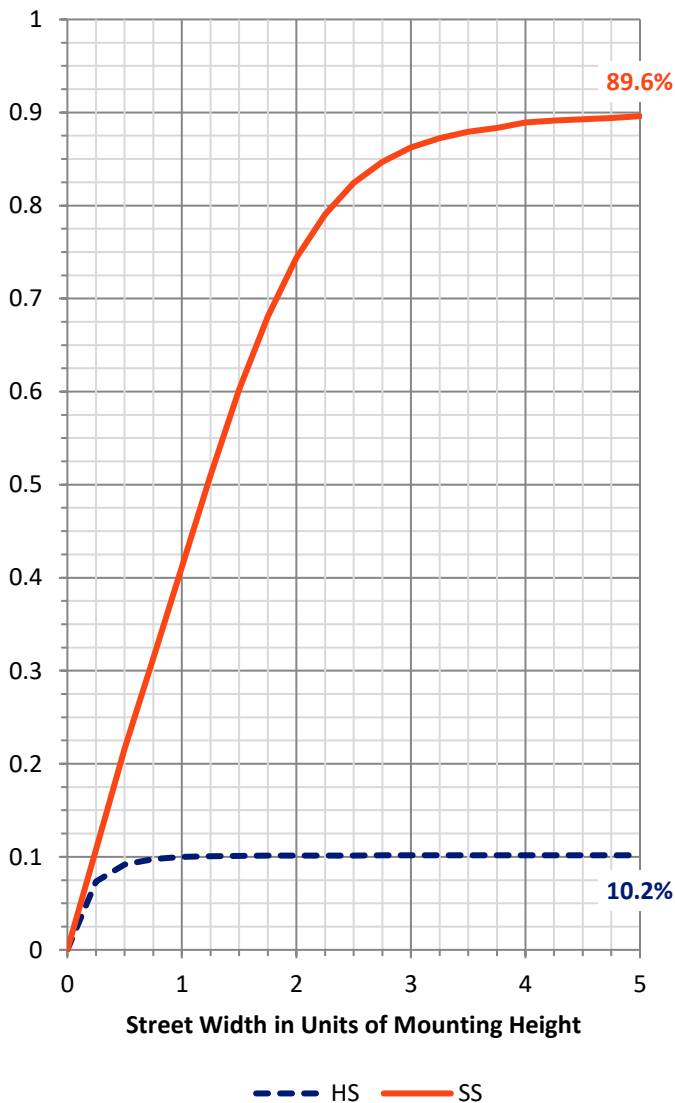
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1180.8	0.0	1180.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	10325.2	0.0	10325.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	11506.0	0.0	11506.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	1.0
10°-20°	348.1	3.0
20°-30°	547.5	4.8
30°-40°	785.1	6.8
40°-50°	1356.9	11.8
50°-60°	2680.7	23.3
60°-70°	3746.6	32.6
70°-80°	1810.0	15.7
80°-90°	116.3	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°	11506.0	100.0
0°-180°	11506.0	100.0



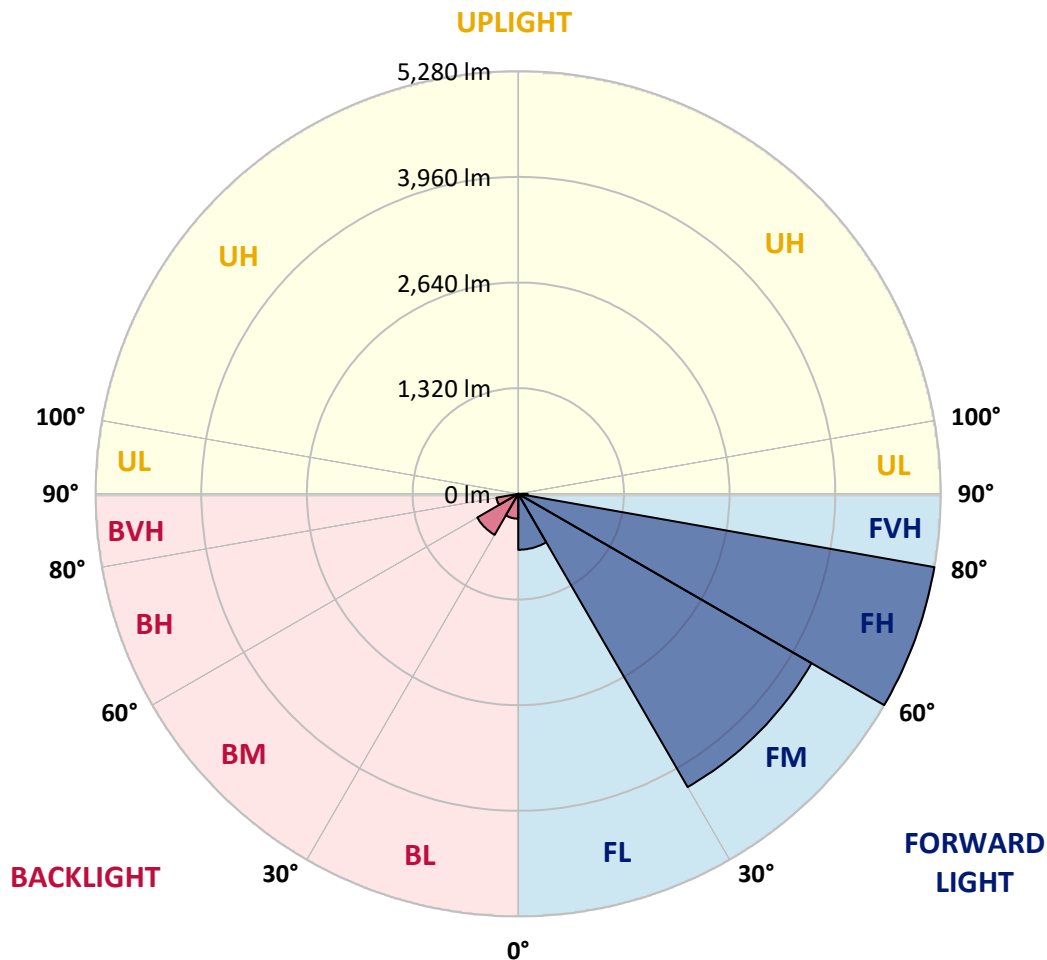
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	699.1	6.1			
FM (30°-60°)	4231.0	36.8			
FH (60°-80°)	5279.7	45.9			G3/7500
FVH (80°-90°)	115.4	1.0			G2/225
BL (0°-30°)	311.2	2.7	B1/500		
BM (30°-60°)	591.7	5.1	B1/1000		
BH (60°-80°)	276.9	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°	1152.9	1152.9	1152.9	1152.9	1152.9	1152.9	1152.9	1152.9	1152.9	1152.9	1152.9
2.5°	1280.7	1279.1	1271.5	1268.3	1250.0	1239.2	1234.9	1221.4	1202.0	1182.5	1161.0
5°	1426.4	1425.8	1411.8	1398.3	1363.8	1331.4	1325.5	1294.2	1250.5	1209.5	1168.5
7.5°	1575.3	1568.3	1554.2	1528.3	1478.2	1426.4	1421.5	1377.3	1315.2	1255.9	1197.1
10°	1701.5	1697.2	1678.8	1639.5	1580.7	1521.9	1515.9	1461.4	1391.3	1318.5	1243.5
12.5°	1799.7	1796.5	1772.2	1723.1	1660.5	1599.5	1591.5	1542.9	1467.9	1386.5	1298.0
15°	1859.6	1858.0	1828.3	1776.0	1714.5	1661.6	1654.6	1612.0	1542.4	1457.1	1357.3
17.5°	1873.6	1874.1	1843.4	1790.5	1739.8	1702.0	1696.6	1664.3	1606.0	1521.3	1416.7
20°	1842.3	1848.8	1821.3	1775.4	1744.1	1724.2	1719.8	1700.4	1651.3	1571.5	1464.1
22.5°	1798.1	1801.3	1782.4	1751.7	1738.7	1742.5	1740.3	1729.6	1688.0	1614.6	1511.1
25°	1771.1	1771.1	1759.8	1733.9	1742.5	1765.7	1766.2	1764.1	1731.2	1667.5	1568.3
27.5°	1770.0	1766.8	1753.8	1734.4	1758.1	1793.8	1795.9	1810.5	1790.0	1731.7	1639.5
30°	1813.2	1809.4	1781.9	1756.5	1786.7	1825.0	1830.4	1862.3	1852.0	1801.3	1718.8
32.5°	1914.1	1900.6	1839.6	1798.1	1820.7	1866.6	1873.6	1924.3	1940.5	1887.1	1795.4
35°	2052.2	2009.5	1921.6	1876.8	1879.0	1927.0	1933.5	2007.9	2055.9	1965.8	1854.7
37.5°	2242.6	2221.6	2078.6	1958.8	1968.5	2041.4	2060.3	2141.2	2127.7	2009.0	1922.1
40°	2660.2	2627.2	2475.1	2188.7	2054.3	2134.2	2140.1	2183.3	2184.3	2106.7	2062.4
42.5°	3228.8	3215.3	3055.0	2605.7	2223.2	2196.2	2207.0	2279.8	2361.3	2312.7	2310.6
45°	3858.3	3851.3	3681.4	3159.2	2564.7	2399.6	2413.1	2510.7	2666.6	2677.4	2745.9
47.5°	4364.9	4361.7	4264.0	3776.9	3087.4	2744.3	2748.6	2852.2	3126.3	3261.7	3371.2
50°	4826.7	4842.3	4765.2	4445.3	3799.5	3284.3	3274.1	3343.1	3783.3	4005.1	4141.0
52.5°	5468.7	5490.8	5274.4	5068.9	4546.7	3954.4	3946.3	4018.5	4573.1	4739.3	4763.6
55°	6035.6	5997.9	5826.9	5767.5	5457.9	4781.9	4779.7	4843.4	5337.0	5407.7	5452.5
57.5°	6286.0	6271.4	6353.9	6489.9	6412.2	5760.0	5755.1	5706.6	6020.5	6028.1	6165.7
60°	6444.0	6461.8	6714.8	7134.0	7327.7	6812.5	6781.2	6485.0	6673.3	6656.6	6803.9
62.5°	6325.3	6360.4	6815.7	7514.3	8012.8	7731.2	7687.0	7198.2	7231.1	7173.4	7310.4
65°	5695.2	5749.7	6495.8	7442.6	8352.7	8449.3	8404.5	7827.8	7674.0	7579.1	7503.0
67.5°	4624.4	4656.7	5435.8	6818.4	8199.5	8877.6	8868.4	8379.7	8008.5	7510.6	6920.4
69°	3821.6	3853.5	4603.3	6161.3	7862.3	8969.3	8987.1	8556.6	7944.8	7094.1	6131.7
70°	3236.9	3270.8	3969.5	5598.1	7471.2	8926.7	8958.5	8539.9	7762.5	6611.8	5439.5
72.5°	1697.7	1726.9	2443.8	3856.7	6090.7	8196.8	8293.4	7818.1	6580.0	4801.9	3216.4
75°	533.5	550.3	954.3	2016.0	4170.1	6373.4	6395.5	6132.8	4672.4	2641.3	1339.5
77.5°	203.4	198.5	317.8	742.9	2108.3	4013.2	4148.6	3832.4	2451.9	933.8	309.1
80°	109.5	110.1	165.1	307.5	902.0	2062.4	2176.8	1857.4	871.3	291.3	71.2
82.5°	47.5	49.6	92.8	162.9	414.3	760.7	817.8	680.8	332.9	195.8	26.4
85°	10.3	11.3	44.8	88.5	168.9	213.6	223.9	220.6	212.0	152.1	10.3
87.5°	0.0	0.0	20.0	31.8	42.6	48.6	42.6	55.6	117.1	102.5	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°	1152.9	1152.9	1152.9	1152.9	1152.9	1152.9	1152.9	1152.9	1152.9	1152.9	1152.9
2.5°	1153.9	1144.2	1127.5	1109.2	1096.2	1082.7	1071.9	1067.1	1061.7	1057.9	1062.8
5°	1151.8	1132.9	1100.5	1069.2	1046.6	1028.2	1013.1	1007.2	1001.3	996.9	996.4
7.5°	1170.7	1144.2	1094.6	1048.7	1013.7	988.9	968.4	959.7	952.7	949.5	946.8
10°	1206.8	1172.8	1106.5	1046.6	1001.3	959.2	914.9	881.0	858.8	848.6	844.8
12.5°	1253.7	1211.1	1129.1	1057.9	992.1	911.2	817.3	736.4	684.1	666.8	656.5
15°	1308.8	1255.9	1158.8	1072.5	958.6	810.8	651.7	545.9	497.4	487.7	476.9
17.5°	1361.6	1303.4	1194.4	1075.2	885.3	647.9	477.4	405.7	386.8	393.3	394.9
20°	1408.0	1350.3	1229.5	1051.4	752.0	486.1	369.5	351.7	358.8	371.2	373.3
22.5°	1455.0	1395.6	1261.8	988.9	581.6	369.0	332.9	337.2	344.2	356.6	358.8
25°	1512.1	1450.6	1292.0	873.9	436.4	314.0	316.1	322.6	329.6	340.9	342.0
27.5°	1578.0	1520.2	1312.0	724.5	323.7	288.6	295.6	305.3	312.4	323.1	325.3
30°	1665.4	1612.0	1318.5	569.7	271.4	266.0	269.2	281.1	291.3	301.0	302.6
32.5°	1747.4	1702.6	1296.9	430.0	251.4	244.9	244.9	251.9	263.8	273.0	275.1
35°	1822.9	1793.8	1227.8	314.5	236.3	225.5	220.1	220.1	227.7	235.2	237.4
37.5°	1922.7	1921.6	1116.2	250.9	221.7	209.3	198.0	189.4	186.7	188.3	189.4
40°	2093.7	2095.3	970.5	225.0	209.3	192.6	175.3	159.7	145.1	140.3	139.7
42.5°	2360.7	2336.5	817.8	212.6	198.5	175.3	149.4	128.4	105.7	98.7	98.2
45°	2784.8	2640.7	656.0	201.2	187.2	155.9	123.5	94.9	76.6	71.2	71.2
47.5°	3402.5	3040.5	508.2	188.8	172.1	133.8	93.3	68.5	56.1	53.4	53.9
50°	4041.2	3432.1	389.5	173.2	153.8	110.6	69.1	49.6	42.6	42.6	43.2
52.5°	4607.7	3719.1	303.7	156.4	131.1	86.9	52.3	38.8	35.6	35.1	35.6
55°	5138.0	3904.2	232.5	137.0	104.1	64.7	39.9	31.8	29.7	28.6	28.1
57.5°	5649.4	3995.9	174.3	110.6	75.5	46.9	31.8	27.0	24.8	23.2	22.7
60°	5989.8	3921.4	119.8	81.5	52.3	34.0	26.4	23.2	20.5	18.9	18.3
62.5°	6181.8	3718.1	77.1	58.8	37.2	25.4	21.0	19.4	15.6	14.0	14.0
65°	6104.2	3382.5	53.9	42.1	27.0	18.9	15.6	15.6	11.3	9.2	8.6
67.5°	5409.3	2857.6	41.0	31.3	19.4	14.0	11.9	13.5	7.0	4.3	4.3
69°	4654.1	2368.3	35.1	25.9	16.2	11.3	10.3	12.4	4.9	3.2	2.7
70°	4045.0	2043.0	31.8	22.7	13.5	9.7	9.2	11.9	4.9	2.7	2.2
72.5°	2420.1	1139.4	24.3	16.2	8.6	7.6	7.6	13.5	4.9	2.7	2.2
75°	978.1	401.4	17.8	11.3	6.5	6.5	9.2	17.3	4.3	2.2	1.6
77.5°	221.7	87.9	10.3	7.0	4.3	6.5	10.8	13.5	2.7	1.1	0.0
80°	53.9	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)