

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: P322536

Luminaire Tested: **GAN-SA2D-730-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10267 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

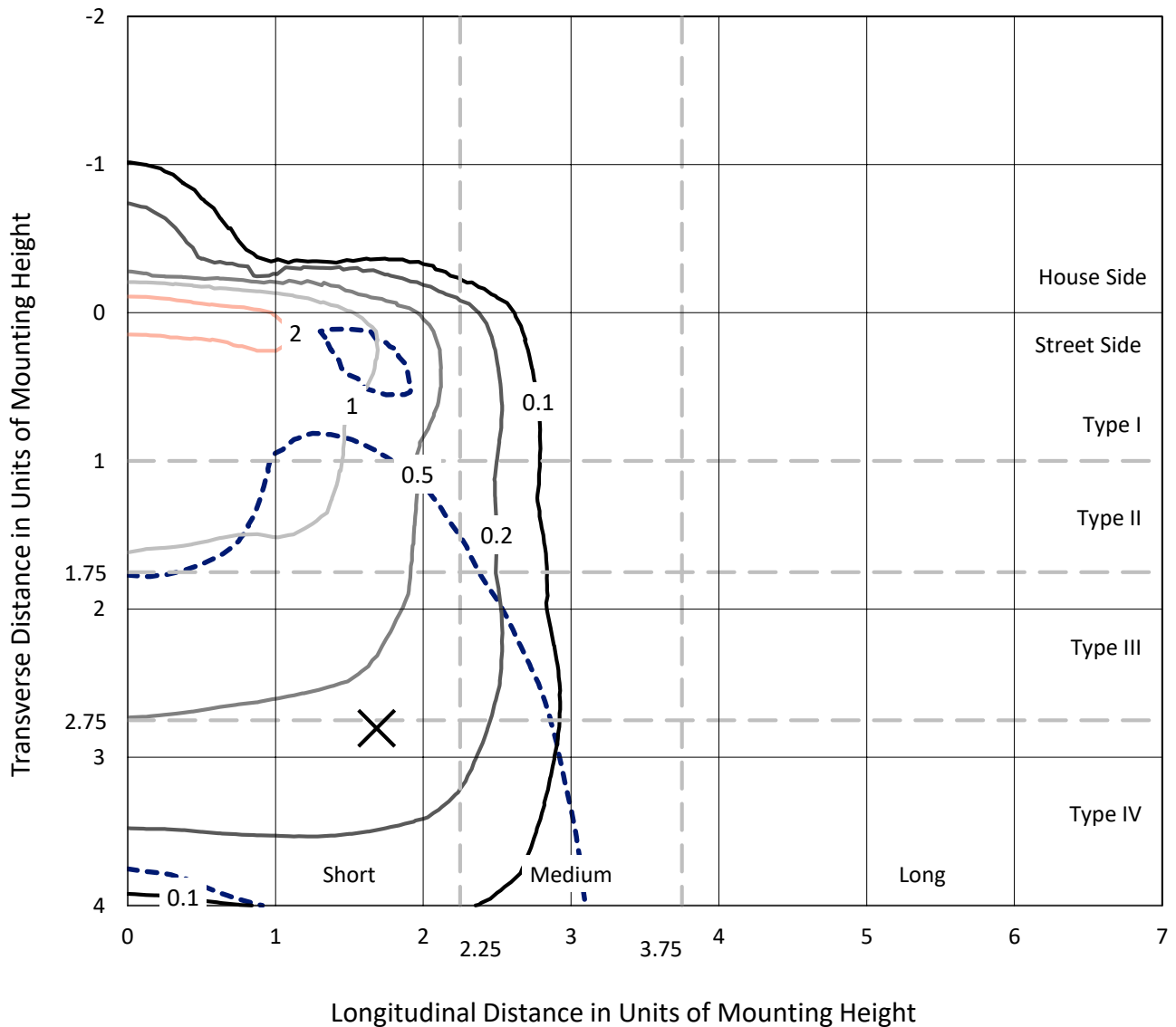
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

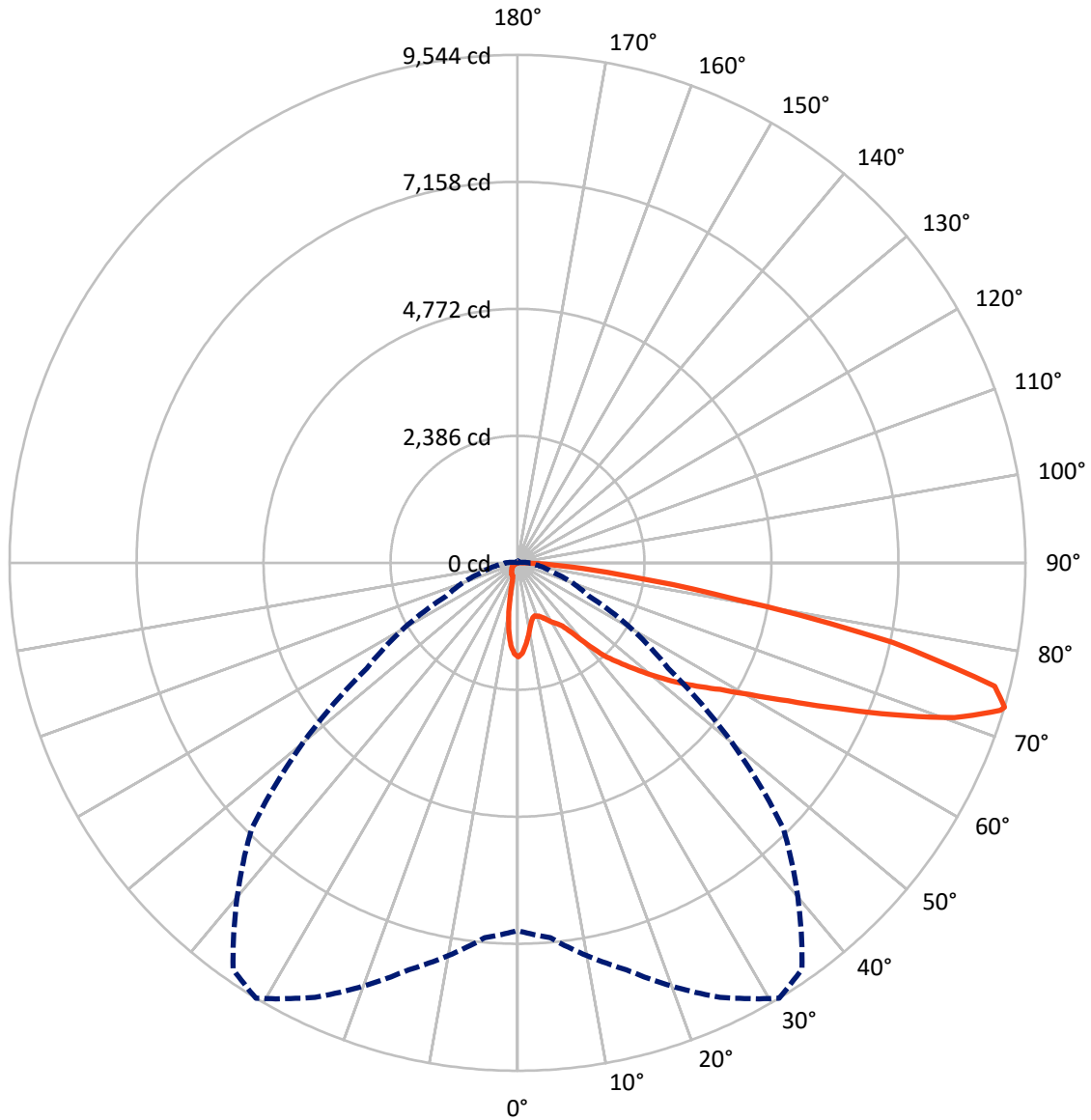
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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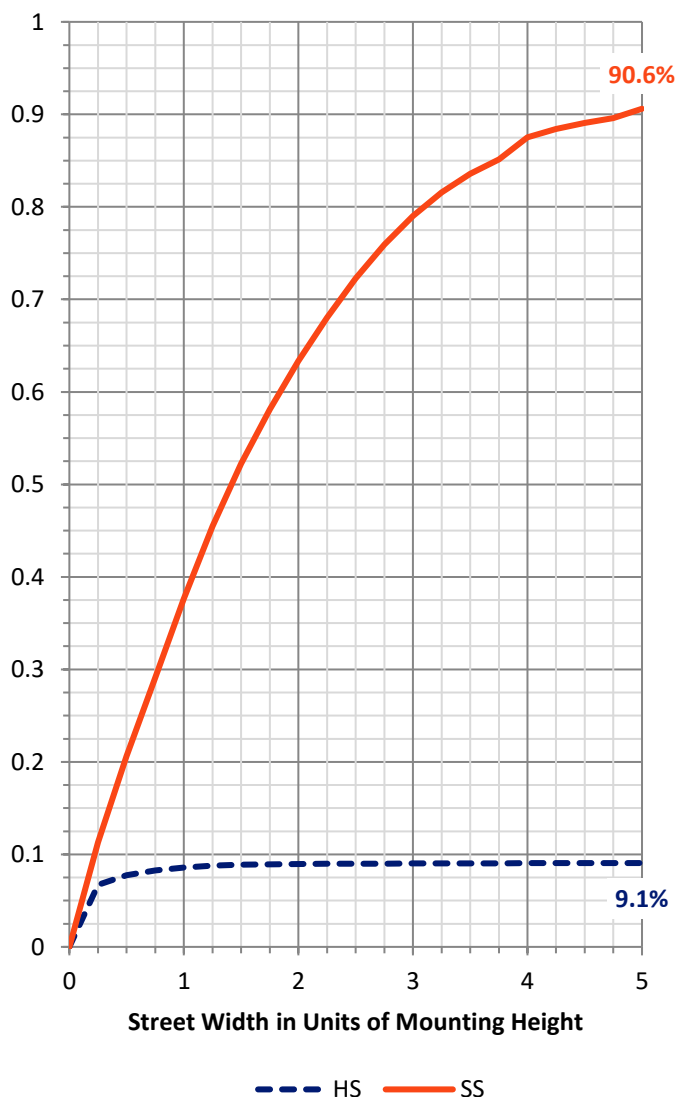
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	935.9	0.0	935.9
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	9331.1	0.0	9331.1
	% Fixture	90.9	0.0	90.9
Total	Lumens	10267.0	0.0	10267.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	1.4
10°-20°	318.0	3.1
20°-30°	476.5	4.6
30°-40°	758.1	7.4
40°-50°	1353.7	13.2
50°-60°	2100.6	20.5
60°-70°	2792.4	27.2
70°-80°	2100.5	20.5
80°-90°	220.7	2.1
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°	10267.0	100.0
0°-180°	10267.0	100.0

Coefficient of Utilization



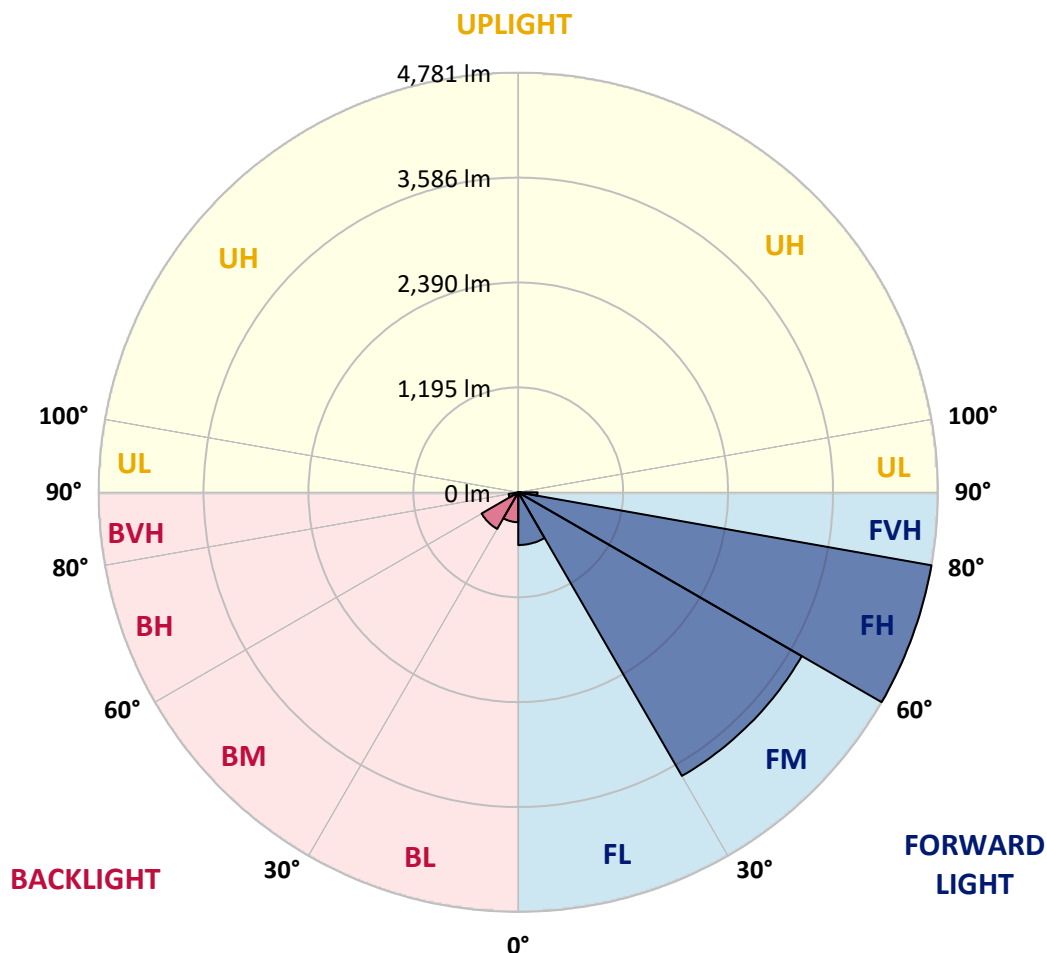
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	600.6	5.9			
FM (30°-60°)	3730.7	36.3			
FH (60°-80°)	4781.0	46.6			G2/5000
FVH (80°-90°)	218.9	2.1			G2/225
BL (0°-30°)	340.3	3.3	B1/500		
BM (30°-60°)	481.7	4.7	B1/1000		
BH (60°-80°)	112.0	1.1	B1/500		G1/500
BVH (80°-90°)	1.8	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	1766.5	1766.5	1766.5	1766.5	1766.5	1766.5	1766.5	1766.5	1766.5	1766.5	1766.5
2.5°	1674.0	1681.0	1688.6	1690.1	1702.7	1703.2	1721.2	1734.8	1748.4	1761.4	1766.0
5°	1502.2	1513.7	1527.3	1540.9	1567.5	1578.1	1622.3	1667.5	1710.7	1751.9	1772.0
7.5°	1318.8	1331.9	1351.0	1384.6	1414.3	1434.9	1504.7	1585.1	1665.5	1741.3	1785.0
10°	1151.5	1163.6	1183.7	1219.3	1265.1	1293.2	1387.1	1498.7	1616.7	1731.8	1804.6
12.5°	1045.0	1051.5	1062.6	1100.8	1142.0	1173.6	1284.1	1422.3	1576.5	1731.3	1836.3
15°	1025.4	1027.4	1018.4	1035.5	1067.6	1098.3	1210.3	1360.5	1545.9	1739.3	1877.5
17.5°	1056.6	1055.6	1025.4	1023.4	1049.0	1074.1	1174.1	1317.8	1524.3	1757.9	1930.7
20°	1103.8	1100.3	1048.0	1038.5	1065.6	1089.2	1171.6	1301.7	1516.3	1789.1	1995.6
22.5°	1166.6	1160.6	1078.7	1068.6	1097.8	1122.4	1202.8	1317.3	1523.3	1830.8	2070.9
25°	1244.5	1235.4	1131.4	1120.4	1150.0	1174.6	1258.5	1362.0	1544.4	1881.5	2166.4
27.5°	1332.4	1319.3	1215.8	1187.2	1220.8	1246.5	1332.9	1430.3	1577.6	1935.3	2283.4
30°	1415.3	1398.2	1304.7	1257.5	1298.7	1327.4	1413.3	1511.7	1630.8	2018.2	2443.7
32.5°	1498.7	1479.6	1384.1	1327.9	1365.0	1396.2	1496.2	1623.8	1730.8	2144.8	2656.7
35°	1690.6	1670.5	1553.4	1460.5	1460.0	1477.6	1612.2	1777.0	1862.9	2321.1	2910.9
37.5°	2013.6	2002.1	1890.6	1714.2	1667.0	1647.4	1770.5	1959.9	2052.8	2563.8	3197.8
40°	2367.3	2357.3	2232.2	2072.4	2000.6	1952.3	1997.6	2214.6	2321.1	2860.2	3490.7
42.5°	2766.7	2719.0	2496.0	2448.2	2383.9	2347.2	2306.5	2528.6	2650.7	3182.7	3781.1
45°	3129.5	3049.1	2759.7	2687.4	2672.8	2681.8	2704.4	2950.6	3021.5	3566.1	4070.5
47.5°	3345.5	3282.2	3060.2	2990.8	2986.8	3046.6	3217.4	3427.4	3390.7	3900.2	4325.2
50°	3551.0	3493.7	3309.3	3326.4	3345.0	3426.4	3799.7	3917.8	3727.9	4203.1	4558.8
52.5°	3717.3	3629.9	3533.4	3629.4	3720.8	3851.9	4400.6	4357.9	3967.0	4444.3	4758.8
55°	3813.3	3773.6	3820.3	3916.8	4088.6	4301.6	4967.8	4724.1	4141.8	4664.3	4891.9
57.5°	4164.9	4087.1	4180.0	4263.4	4487.5	4785.4	5453.6	4996.9	4267.9	4800.5	4922.6
60°	4590.5	4527.7	4582.4	4721.1	5023.6	5373.7	5907.8	5219.5	4333.8	4887.9	4843.2
62.5°	5267.7	5184.8	5150.7	5305.9	5706.8	6089.2	6252.4	5373.7	4319.2	4849.2	4570.9
65°	6175.1	6089.2	5936.4	6077.1	6587.0	6856.8	6637.8	5406.4	4218.7	4536.2	3882.6
67.5°	7104.5	7042.2	6911.6	7148.7	7608.9	7695.9	7045.2	5327.0	3895.2	3678.1	2743.1
70°	7718.5	7691.8	7776.7	8301.2	8711.7	8686.6	7419.0	4900.5	3036.0	2261.8	1357.0
72.5°	7275.8	7403.5	8030.5	8981.5	9482.9	9277.9	7227.1	3763.0	1735.3	870.2	392.4
73°	6909.1	7072.4	7916.4	9007.1	9543.7	9319.1	7065.8	3454.0	1479.1	686.8	297.4
75°	4806.5	5007.0	6553.9	8388.7	9259.3	8879.0	5889.7	2114.1	685.3	304.5	120.1
77.5°	2333.7	2481.9	3608.8	6061.0	7201.0	6937.2	3666.6	787.8	309.5	190.4	55.3
80°	871.2	968.6	1566.5	3084.8	4161.4	4270.4	1612.7	297.9	206.0	153.2	28.1
82.5°	228.1	254.2	577.8	1375.6	2132.7	2232.2	508.4	150.2	150.7	126.1	17.1
85°	72.8	83.4	180.4	617.5	1004.8	882.2	132.6	72.8	109.5	93.9	9.5
87.5°	9.0	11.6	57.3	145.2	221.6	123.1	20.6	21.6	46.7	52.3	5.5
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°	1766.5	1766.5	1766.5	1766.5	1766.5	1766.5	1766.5	1766.5	1766.5	1766.5	1766.5
2.5°	1770.5	1768.0	1768.5	1755.4	1746.9	1729.8	1712.2	1704.2	1695.6	1692.1	1695.6
5°	1779.5	1775.0	1761.9	1721.7	1679.0	1623.8	1572.0	1532.8	1483.6	1470.0	1484.1
7.5°	1793.6	1784.5	1746.4	1664.5	1569.5	1464.0	1345.4	1259.0	1188.2	1142.5	1159.0
10°	1814.2	1797.1	1720.2	1581.1	1411.3	1224.4	1056.1	924.9	832.0	793.8	792.3
12.5°	1848.9	1816.7	1688.1	1472.6	1217.8	968.6	748.1	605.9	530.5	481.8	480.8
15°	1887.0	1839.8	1647.4	1342.4	992.8	693.8	481.8	373.8	325.1	309.5	307.5
17.5°	1933.8	1866.4	1594.6	1182.2	757.1	459.7	314.5	283.4	281.3	279.8	279.8
20°	1992.5	1898.1	1526.8	998.8	537.1	307.0	267.3	269.3	270.3	268.3	268.8
22.5°	2060.9	1930.2	1445.9	801.8	363.2	256.7	255.7	258.2	259.2	258.2	258.7
25°	2140.2	1967.4	1347.5	595.4	262.3	243.7	246.2	249.7	252.2	252.2	252.2
27.5°	2238.7	2012.6	1228.9	415.5	226.6	230.1	237.1	243.7	247.2	248.2	248.2
30°	2366.8	2068.9	1086.7	284.9	206.0	212.0	225.1	237.6	244.2	245.2	245.7
32.5°	2528.6	2132.2	921.9	210.5	188.4	192.9	207.0	228.1	240.7	242.7	242.7
35°	2714.0	2205.6	744.6	183.4	175.8	177.3	188.4	212.5	234.6	240.1	240.7
37.5°	2917.0	2277.9	566.2	171.3	165.3	165.3	173.3	193.9	220.1	237.1	239.1
40°	3106.4	2321.6	396.9	161.8	155.7	155.7	162.8	177.9	202.5	228.1	233.6
42.5°	3281.2	2336.7	276.3	152.7	146.7	148.2	154.2	166.3	184.9	210.5	215.5
45°	3461.1	2334.2	201.5	142.2	137.7	142.2	146.7	155.7	169.3	183.9	184.9
47.5°	3596.7	2313.1	159.8	132.1	129.1	135.1	139.2	145.2	152.7	151.7	151.7
50°	3723.8	2261.8	128.6	118.6	120.6	127.6	129.6	131.6	132.1	122.6	121.6
52.5°	3820.3	2181.9	103.0	104.0	112.0	119.1	117.1	114.0	109.0	97.5	95.5
55°	3852.4	2028.2	80.9	85.9	99.5	108.5	101.0	94.5	84.9	75.4	73.4
57.5°	3794.2	1829.8	65.8	66.8	83.9	91.4	82.9	75.4	64.8	56.8	55.3
60°	3670.6	1609.2	54.3	50.2	64.8	71.3	65.8	58.3	48.7	42.7	42.2
62.5°	3425.4	1374.1	44.7	39.2	49.2	54.8	51.2	45.7	37.7	33.7	33.2
65°	2909.9	1099.3	36.2	31.7	38.2	42.7	39.7	35.7	29.6	26.6	26.1
67.5°	2031.2	743.1	29.6	26.1	30.1	33.7	31.1	29.1	23.6	23.1	23.6
70°	979.7	358.2	24.6	21.1	23.6	26.1	25.1	23.6	22.6	26.1	30.1
72.5°	280.8	120.1	19.6	17.6	19.1	20.6	21.6	21.1	24.6	31.7	36.7
73°	216.0	97.0	18.6	16.6	18.1	20.1	21.1	20.6	25.1	32.2	36.7
75°	92.4	46.7	14.1	13.6	15.1	17.6	18.6	18.6	25.1	32.7	35.2
77.5°	41.7	25.1	9.0	10.6	13.1	14.1	15.6	15.6	20.1	25.1	25.1
80°	23.6	13.6	7.0	8.0	9.5	9.5	9.5	8.5	9.0	10.0	11.1
82.5°	15.1	9.0	5.5	6.5	6.0	5.0	4.0	4.0	3.5	4.0	5.0
85°	8.5	5.0	5.0	4.0	2.5	2.0	2.5	2.0	0.5	0.0	0.5
87.5°	5.0	3.0	1.5	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)