

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: P322615

Luminaire Tested: **GAN-SA1D-750-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322615  
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-SA1D-750-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5769 lumens  
Efficiency: N/A  
Efficacy: 86.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

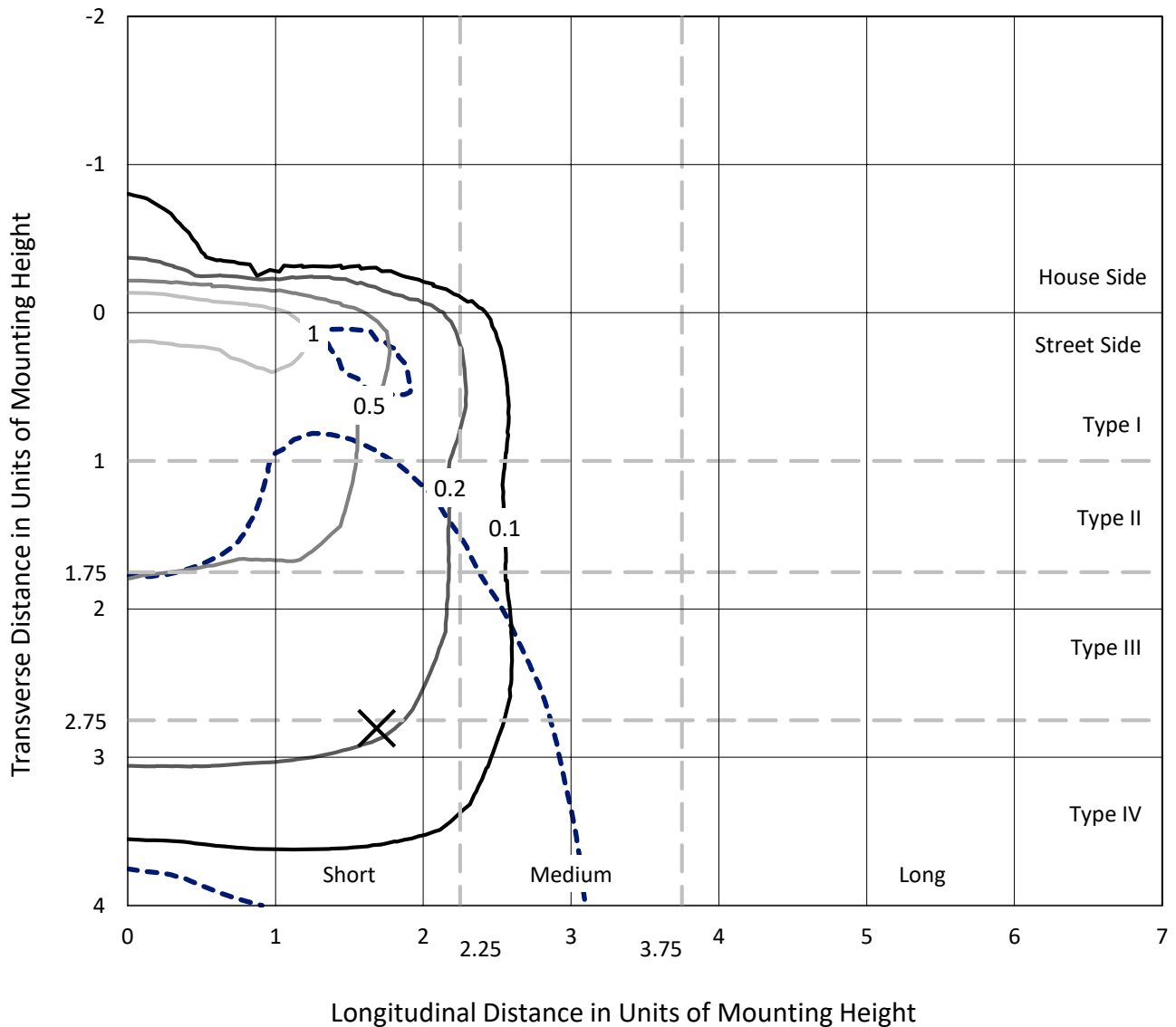
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

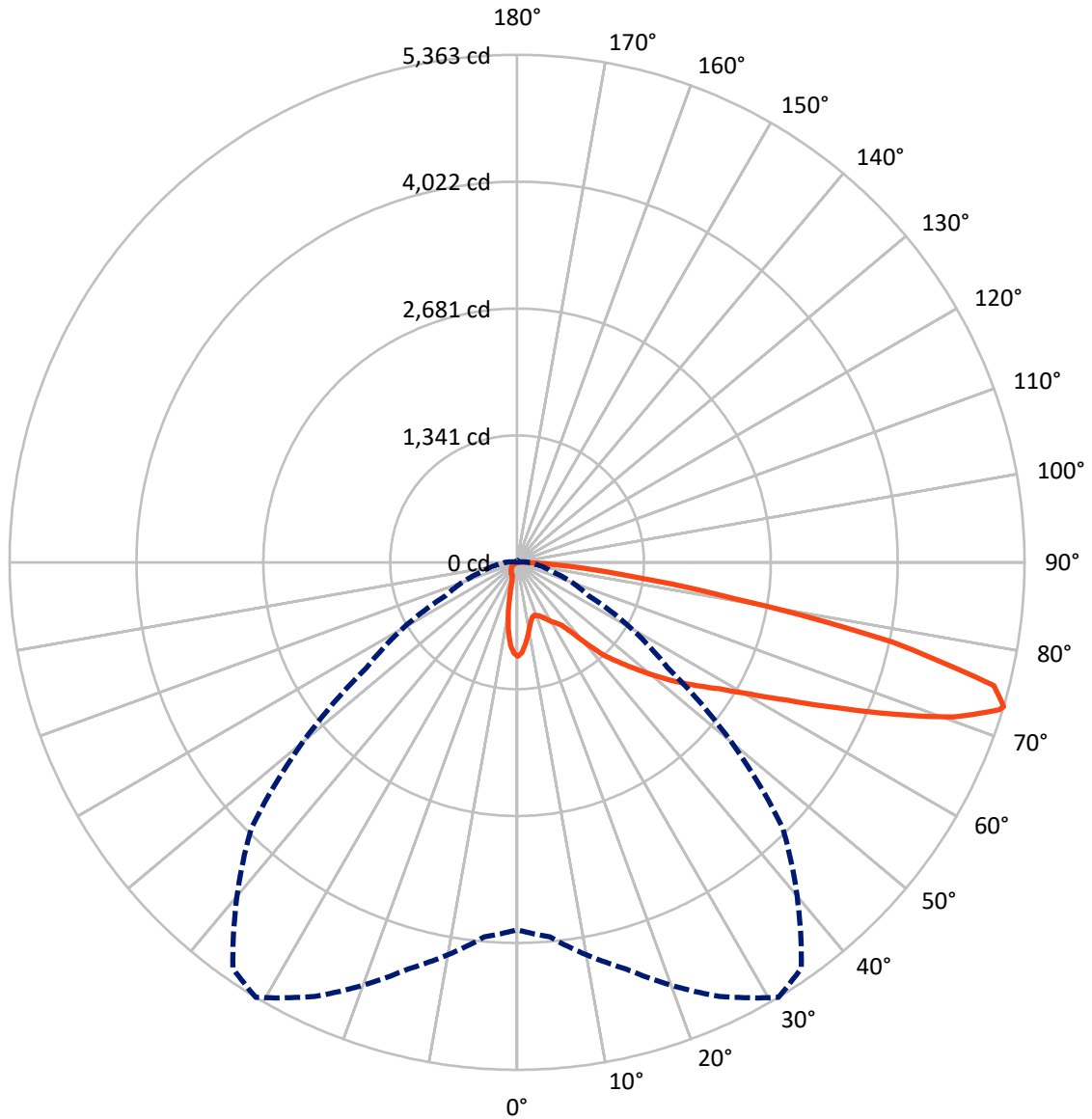
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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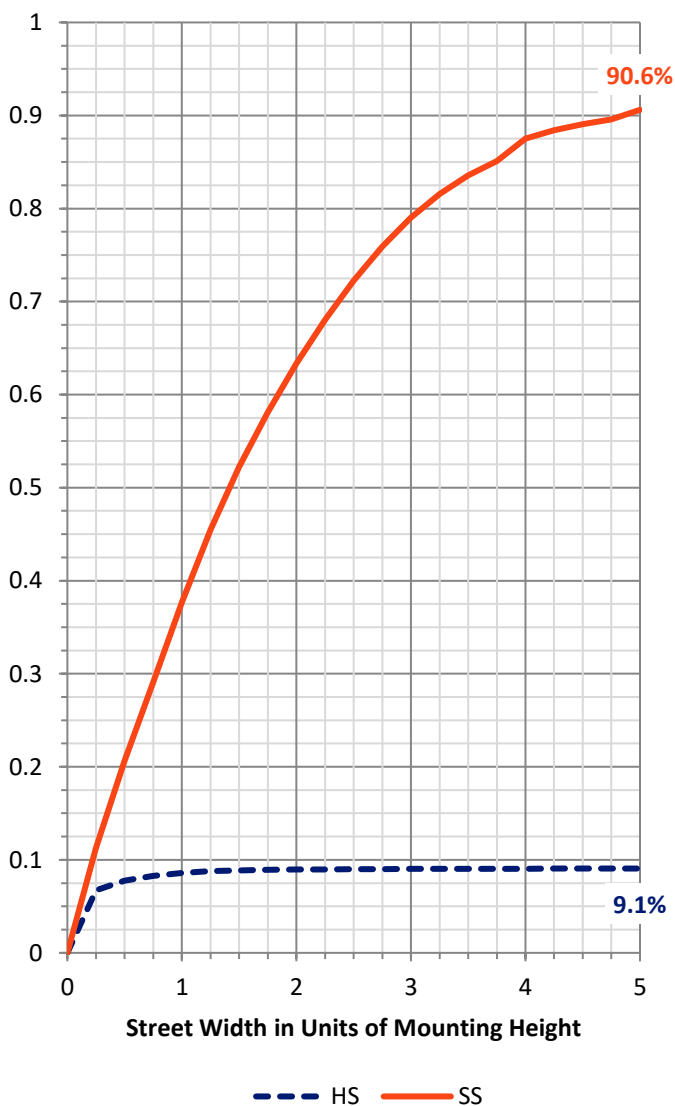
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	525.9	0.0	525.9
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	5243.1	0.0	5243.1
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	5769.0	0.0	5769.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.3	1.4
10°-20°	178.7	3.1
20°-30°	267.7	4.6
30°-40°	426.0	7.4
40°-50°	760.7	13.2
50°-60°	1180.3	20.5
60°-70°	1569.1	27.2
70°-80°	1180.3	20.5
80°-90°	124.0	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°	5769.0	100.0
0°-180°	5769.0	100.0

**Coefficient of Utilization**

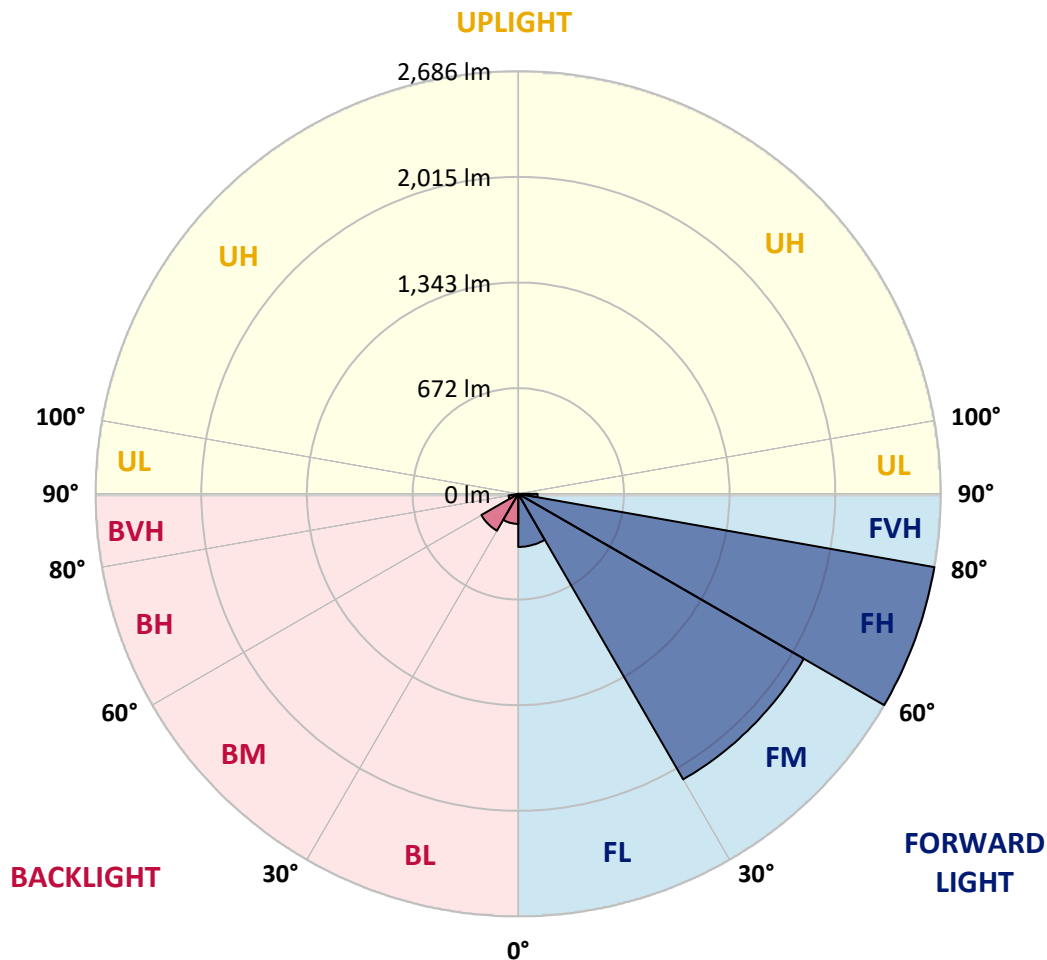


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	337.5	5.9			
FM (30°-60°)	2096.3	36.3			
FH (60°-80°)	2686.4	46.6			G2/5000
FVH (80°-90°)	123.0	2.1			G2/225
BL (0°-30°)	191.2	3.3	B1/500		
BM (30°-60°)	270.7	4.7	B1/1000		
BH (60°-80°)	62.9	1.1	B0/110		G0/110
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-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	992.6	992.6	992.6	992.6	992.6	992.6	992.6	992.6	992.6	992.6	992.6
2.5°	940.6	944.6	948.8	949.7	956.7	957.0	967.2	974.8	982.4	989.7	992.3
5°	844.1	850.6	858.2	865.8	880.8	886.7	911.5	937.0	961.2	984.4	995.7
7.5°	741.0	748.4	759.1	778.0	794.7	806.2	845.5	890.7	935.8	978.5	1003.0
10°	647.0	653.8	665.1	685.1	710.8	726.6	779.4	842.1	908.4	973.1	1014.0
12.5°	587.2	590.9	597.1	618.5	641.7	659.5	721.6	799.2	885.9	972.8	1031.8
15°	576.2	577.3	572.2	581.8	599.9	617.1	680.1	764.5	868.6	977.3	1055.0
17.5°	593.7	593.1	576.2	575.0	589.4	603.6	659.7	740.5	856.5	987.8	1084.9
20°	620.2	618.2	588.9	583.5	598.8	612.0	658.3	731.4	852.0	1005.3	1121.3
22.5°	655.5	652.1	606.1	600.5	616.8	630.7	675.8	740.2	855.9	1028.7	1163.6
25°	699.3	694.2	635.7	629.5	646.2	660.0	707.2	765.3	867.8	1057.2	1217.3
27.5°	748.7	741.3	683.2	667.1	686.0	700.4	748.9	803.7	886.4	1087.4	1283.1
30°	795.2	785.6	733.1	706.6	729.7	745.8	794.1	849.4	916.3	1134.0	1373.1
32.5°	842.1	831.4	777.7	746.1	767.0	784.5	840.7	912.4	972.5	1205.1	1492.8
35°	949.9	938.6	872.9	820.6	820.4	830.2	905.9	998.5	1046.8	1304.2	1635.6
37.5°	1131.5	1125.0	1062.3	963.2	936.7	925.7	994.8	1101.3	1153.5	1440.6	1796.8
40°	1330.2	1324.6	1254.3	1164.5	1124.1	1097.0	1122.4	1244.4	1304.2	1607.1	1961.4
42.5°	1554.6	1527.8	1402.5	1375.6	1339.5	1318.9	1296.0	1420.8	1489.4	1788.4	2124.6
45°	1758.4	1713.3	1550.7	1510.0	1501.8	1506.9	1519.6	1658.0	1697.8	2003.8	2287.2
47.5°	1879.8	1844.3	1719.5	1680.5	1678.3	1711.9	1807.9	1925.9	1905.2	2191.5	2430.3
50°	1995.3	1963.1	1859.5	1869.1	1879.6	1925.3	2135.0	2201.4	2094.7	2361.7	2561.6
52.5°	2088.7	2039.6	1985.4	2039.3	2090.7	2164.4	2472.7	2448.7	2229.0	2497.2	2673.9
55°	2142.7	2120.4	2146.6	2200.8	2297.4	2417.1	2791.4	2654.5	2327.3	2620.9	2748.8
57.5°	2340.3	2296.5	2348.7	2395.6	2521.5	2688.9	3064.4	2807.8	2398.1	2697.4	2766.0
60°	2579.4	2544.1	2574.9	2652.8	2822.7	3019.5	3319.6	2932.8	2435.1	2746.5	2721.4
62.5°	2959.9	2913.3	2894.1	2981.4	3206.7	3421.5	3513.2	3019.5	2426.9	2724.8	2568.4
65°	3469.8	3421.5	3335.7	3414.7	3701.2	3852.8	3729.8	3037.8	2370.5	2548.9	2181.6
67.5°	3992.0	3957.0	3883.6	4016.9	4275.4	4324.3	3958.7	2993.2	2188.7	2066.7	1541.4
70°	4337.0	4322.0	4369.7	4664.4	4895.1	4881.0	4168.7	2753.6	1705.9	1270.9	762.5
72.5°	4088.3	4160.0	4512.3	5046.7	5328.4	5213.2	4060.9	2114.4	975.1	488.9	220.5
73°	3882.2	3973.9	4448.2	5061.1	5362.6	5236.4	3970.3	1940.8	831.1	385.9	167.1
75°	2700.8	2813.4	3682.6	4713.6	5202.8	4989.1	3309.4	1187.9	385.1	171.1	67.5
77.5°	1311.3	1394.6	2027.8	3405.7	4046.2	3898.0	2060.2	442.6	173.9	107.0	31.1
80°	489.5	544.3	880.2	1733.3	2338.3	2399.6	906.2	167.4	115.7	86.1	15.8
82.5°	128.2	142.8	324.6	772.9	1198.4	1254.3	285.7	84.4	84.7	70.9	9.6
85°	40.9	46.9	101.3	346.9	564.6	495.7	74.5	40.9	61.5	52.8	5.4
87.5°	5.1	6.5	32.2	81.6	124.5	69.2	11.6	12.1	26.3	29.4	3.1
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°	992.6	992.6	992.6	992.6	992.6	992.6	992.6	992.6	992.6	992.6	992.6
2.5°	994.8	993.4	993.7	986.4	981.6	972.0	962.1	957.6	952.8	950.8	952.8
5°	999.9	997.4	990.0	967.4	943.4	912.4	883.3	861.3	833.6	826.0	833.9
7.5°	1007.8	1002.7	981.3	935.3	881.9	822.6	756.0	707.4	667.6	642.0	651.3
10°	1019.4	1009.8	966.6	888.4	793.0	688.0	593.4	519.7	467.5	446.0	445.2
12.5°	1038.9	1020.8	948.5	827.4	684.3	544.3	420.3	340.5	298.1	270.7	270.2
15°	1060.3	1033.8	925.7	754.3	557.8	389.9	270.7	210.0	182.6	173.9	172.8
17.5°	1086.6	1048.7	896.0	664.3	425.4	258.3	176.7	159.2	158.1	157.2	157.2
20°	1119.6	1066.5	857.9	561.2	301.8	172.5	150.2	151.3	151.9	150.7	151.0
22.5°	1158.0	1084.6	812.5	450.6	204.1	144.3	143.7	145.1	145.7	145.1	145.4
25°	1202.6	1105.5	757.1	334.5	147.4	136.9	138.3	140.3	141.7	141.7	141.7
27.5°	1257.9	1130.9	690.5	233.5	127.3	129.3	133.2	136.9	138.9	139.5	139.5
30°	1329.9	1162.5	610.6	160.1	115.7	119.1	126.5	133.5	137.2	137.8	138.0
32.5°	1420.8	1198.1	518.0	118.3	105.9	108.4	116.3	128.2	135.2	136.4	136.4
35°	1525.0	1239.3	418.4	103.0	98.8	99.7	105.9	119.4	131.8	134.9	135.2
37.5°	1639.0	1280.0	318.2	96.3	92.9	92.9	97.4	109.0	123.6	133.2	134.4
40°	1745.5	1304.5	223.0	90.9	87.5	87.5	91.5	99.9	113.8	128.2	131.3
42.5°	1843.7	1313.0	155.3	85.8	82.4	83.3	86.7	93.4	103.9	118.3	121.1
45°	1944.8	1311.6	113.2	79.9	77.4	79.9	82.4	87.5	95.1	103.3	103.9
47.5°	2021.0	1299.7	89.8	74.2	72.6	75.9	78.2	81.6	85.8	85.3	85.3
50°	2092.4	1270.9	72.3	66.6	67.8	71.7	72.8	74.0	74.2	68.9	68.3
52.5°	2146.6	1226.0	57.9	58.4	63.0	66.9	65.8	64.1	61.3	54.8	53.6
55°	2164.7	1139.6	45.5	48.3	55.9	61.0	56.7	53.1	47.7	42.3	41.2
57.5°	2131.9	1028.1	37.0	37.5	47.1	51.4	46.6	42.3	36.4	31.9	31.1
60°	2062.5	904.2	30.5	28.2	36.4	40.1	37.0	32.7	27.4	24.0	23.7
62.5°	1924.7	772.1	25.1	22.0	27.7	30.8	28.8	25.7	21.2	18.9	18.6
65°	1635.1	617.7	20.3	17.8	21.5	24.0	22.3	20.0	16.7	15.0	14.7
67.5°	1141.3	417.5	16.7	14.7	16.9	18.9	17.5	16.4	13.3	13.0	13.3
70°	550.5	201.3	13.8	11.9	13.3	14.7	14.1	13.3	12.7	14.7	16.9
72.5°	157.8	67.5	11.0	9.9	10.7	11.6	12.1	11.9	13.8	17.8	20.6
73°	121.4	54.5	10.4	9.3	10.2	11.3	11.9	11.6	14.1	18.1	20.6
75°	51.9	26.3	7.9	7.6	8.5	9.9	10.4	10.4	14.1	18.3	19.8
77.5°	23.4	14.1	5.1	5.9	7.3	7.9	8.8	8.8	11.3	14.1	14.1
80°	13.3	7.6	4.0	4.5	5.4	5.4	5.4	4.8	5.1	5.6	6.2
82.5°	8.5	5.1	3.1	3.7	3.4	2.8	2.3	2.3	2.0	2.3	2.8
85°	4.8	2.8	2.8	2.3	1.4	1.1	1.4	1.1	0.3	0.0	0.3
87.5°	2.8	1.7	0.8	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)