

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: P322895

Luminaire Tested: **GAN-SA1D-740-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322895
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-SA1D-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5888 lumens
Efficiency: N/A
Efficacy: 87.9 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

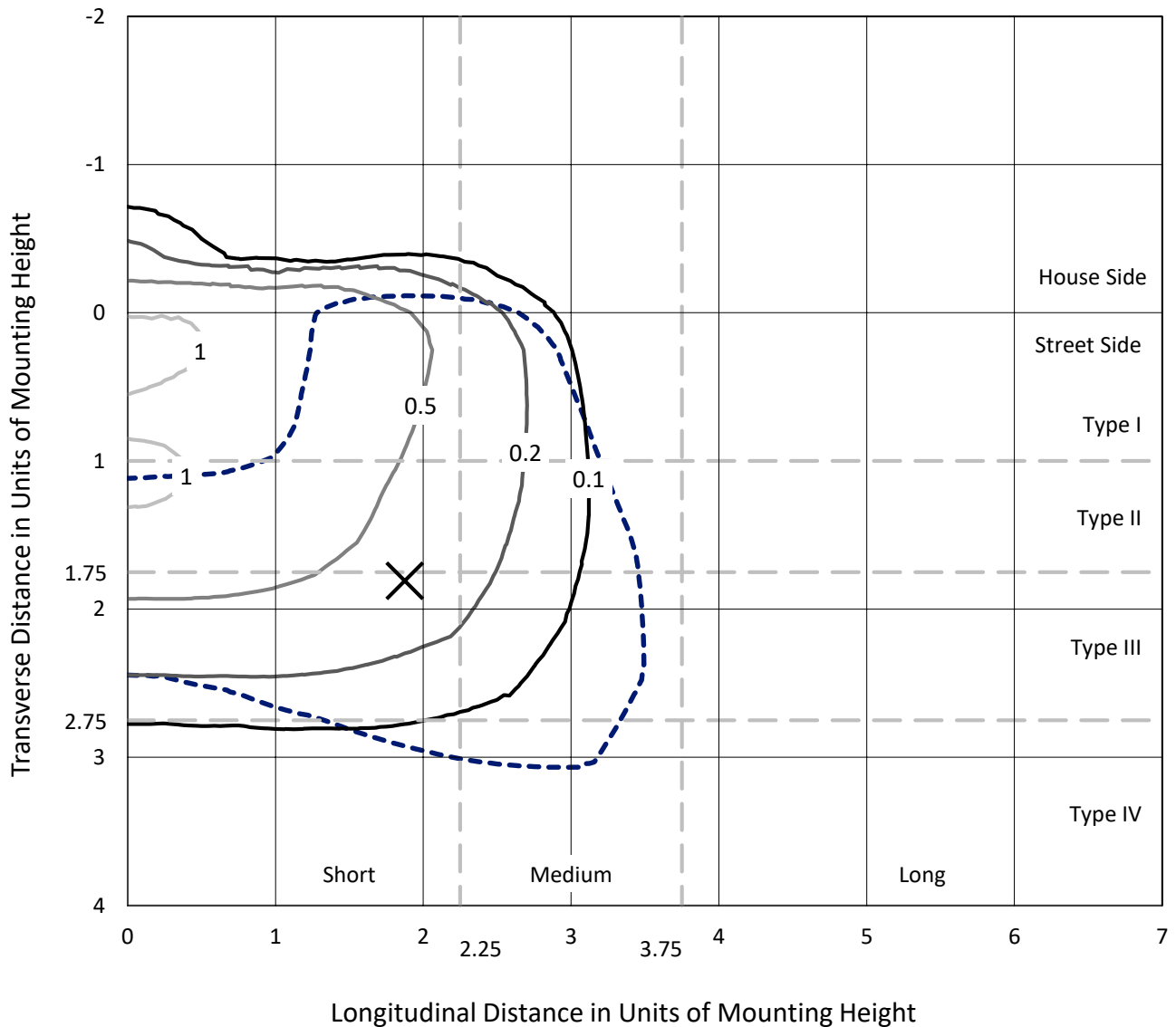
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

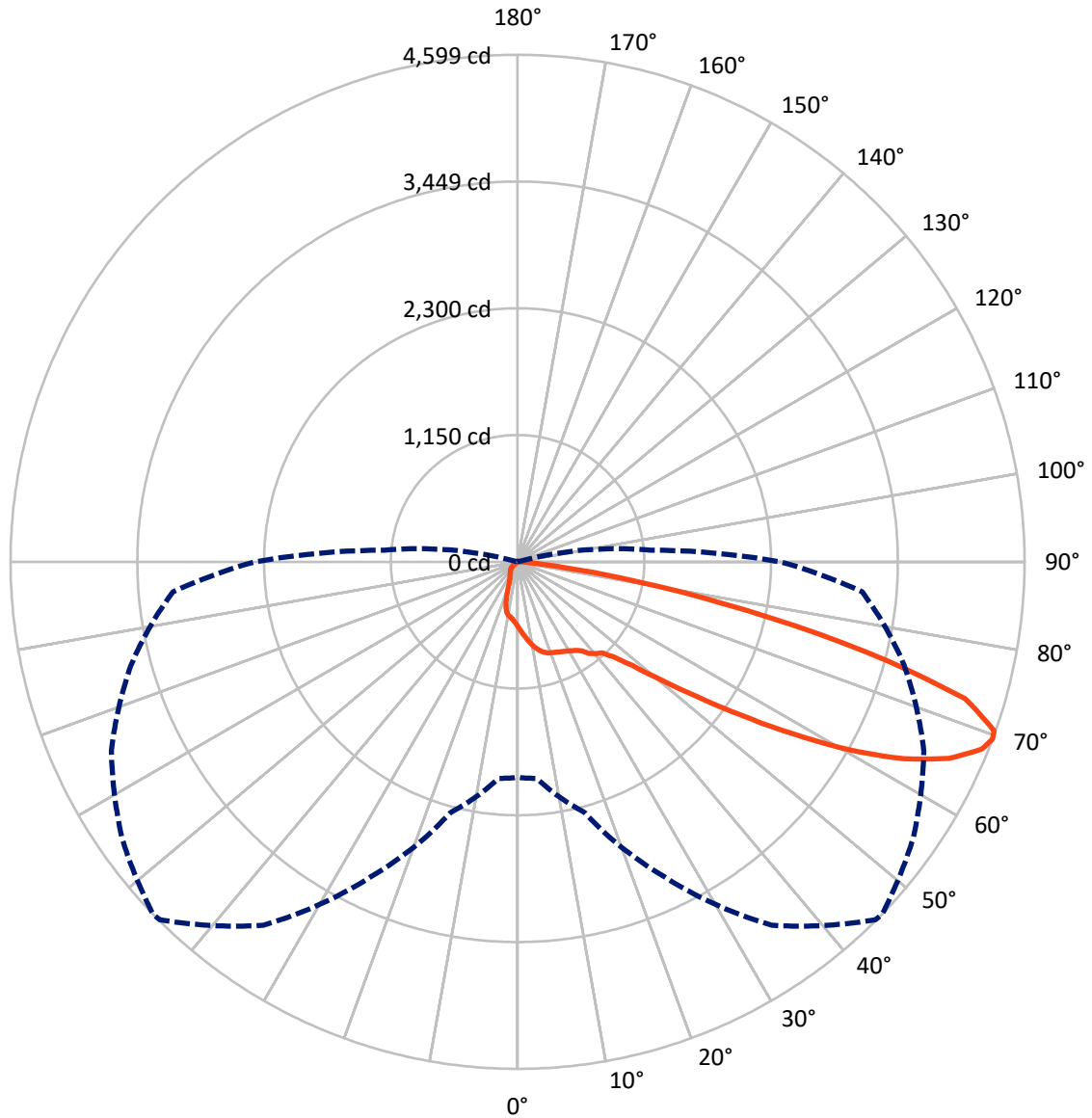
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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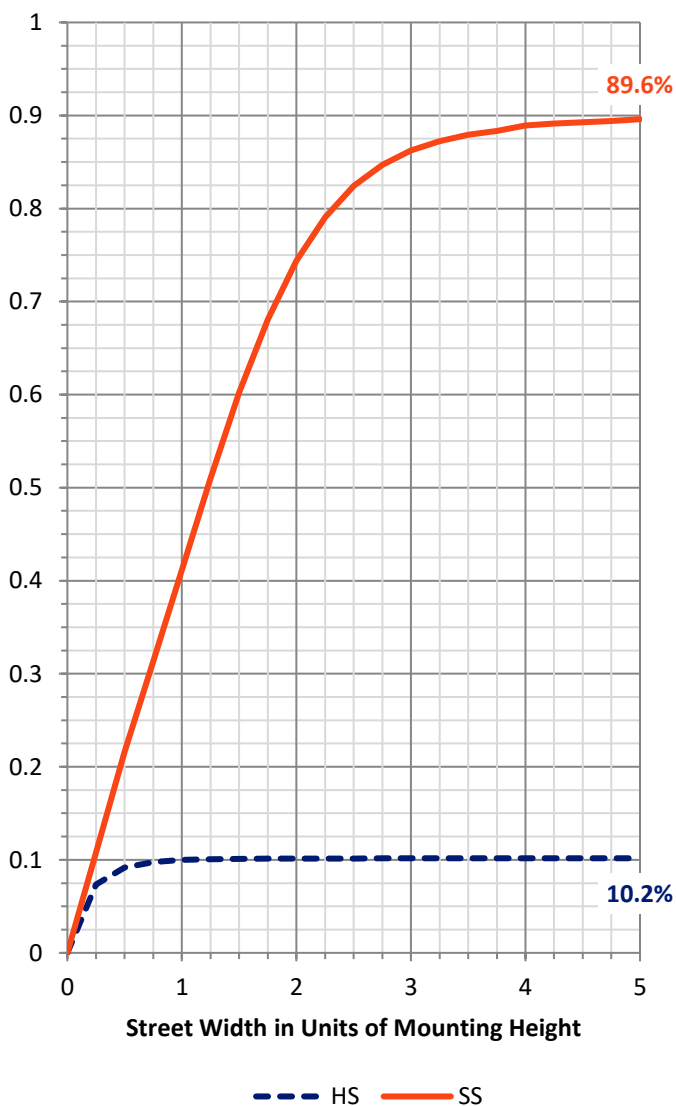
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	604.3	0.0	604.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	5283.7	0.0	5283.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	5888.0	0.0	5888.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.7	1.0
10°-20°	178.1	3.0
20°-30°	280.2	4.8
30°-40°	401.8	6.8
40°-50°	694.4	11.8
50°-60°	1371.8	23.3
60°-70°	1917.2	32.6
70°-80°	926.2	15.7
80°-90°	59.5	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°	5888.0	100.0
0°-180°	5888.0	100.0

Coefficient of Utilization

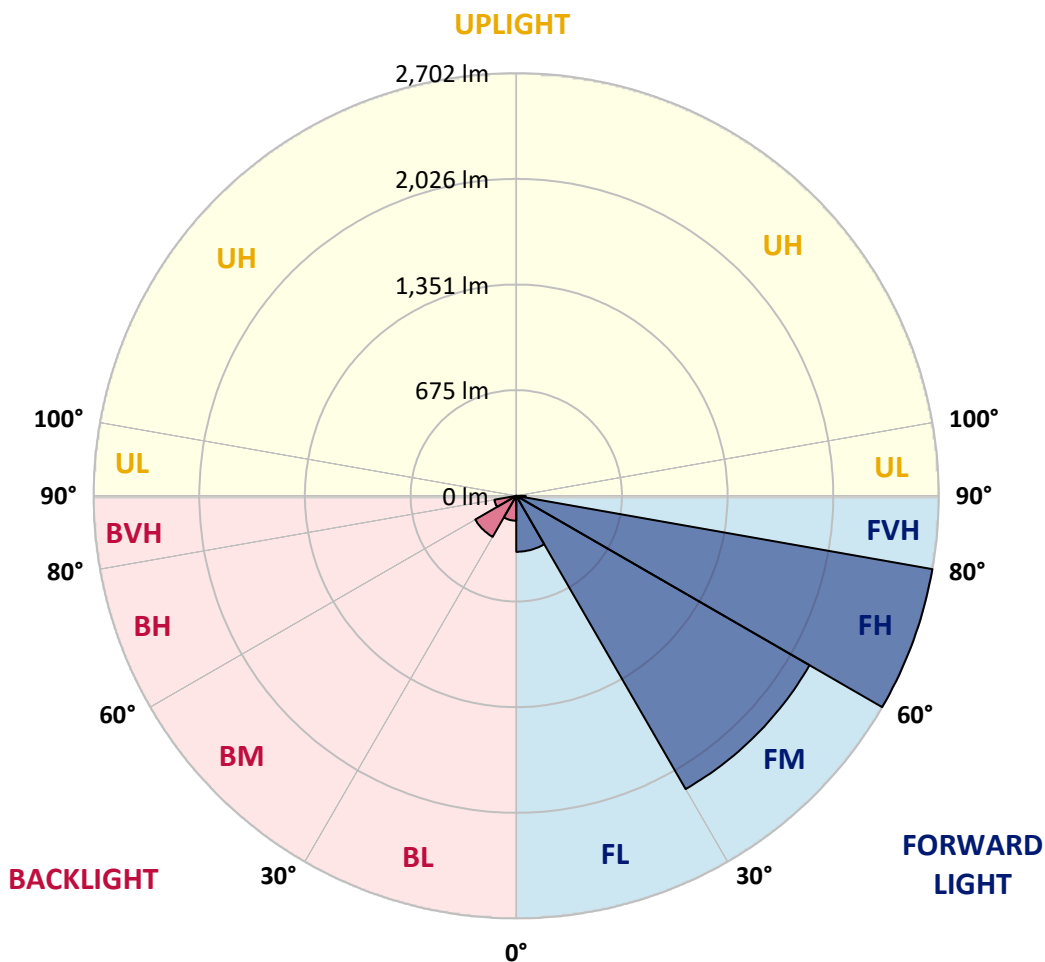


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	357.8	6.1			
FM (30°-60°)	2165.1	36.8			
FH (60°-80°)	2701.8	45.9			G2/5000
FVH (80°-90°)	59.0	1.0			G1/100
BL (0°-30°)	159.3	2.7	B1/500		
BM (30°-60°)	302.8	5.1	B1/1000		
BH (60°-80°)	141.7	2.4	B1/500		G1/500
BVH (80°-90°)	0.5	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°	35°	45°	46°	55°	65°	75°	85°
0°	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
2.5°	655.4	654.6	650.7	649.0	639.6	634.1	631.9	625.0	615.1	605.1	594.1
5°	729.9	729.6	722.5	715.6	697.9	681.3	678.3	662.3	639.9	618.9	598.0
7.5°	806.1	802.5	795.3	782.1	756.4	729.9	727.4	704.8	673.1	642.7	612.6
10°	870.7	868.5	859.1	839.0	808.9	778.8	775.7	747.9	712.0	674.7	636.3
12.5°	921.0	919.3	906.9	881.8	849.7	818.5	814.4	789.6	751.2	709.5	664.2
15°	951.6	950.8	935.6	908.8	877.3	850.3	846.7	824.9	789.3	745.7	694.6
17.5°	958.8	959.1	943.3	916.3	890.3	871.0	868.2	851.7	821.9	778.5	725.0
20°	942.8	946.1	932.0	908.5	892.5	882.3	880.1	870.2	845.0	804.2	749.2
22.5°	920.1	921.8	912.1	896.4	889.8	891.7	890.6	885.1	863.8	826.3	773.3
25°	906.3	906.3	900.5	887.3	891.7	903.6	903.8	902.7	885.9	853.3	802.5
27.5°	905.8	904.1	897.5	887.6	899.7	917.9	919.0	926.5	916.0	886.2	839.0
30°	927.9	925.9	911.8	898.9	914.3	933.9	936.7	953.0	947.7	921.8	879.6
32.5°	979.5	972.6	941.4	920.1	931.7	955.2	958.8	984.7	993.0	965.7	918.8
35°	1050.2	1028.4	983.4	960.4	961.5	986.1	989.4	1027.5	1052.1	1006.0	949.1
37.5°	1147.6	1136.8	1063.7	1002.4	1007.4	1044.6	1054.3	1095.7	1088.8	1028.1	983.6
40°	1361.3	1344.4	1266.6	1120.0	1051.3	1092.1	1095.2	1117.2	1117.8	1078.0	1055.4
42.5°	1652.3	1645.4	1563.4	1333.4	1137.7	1123.9	1129.4	1166.7	1208.3	1183.5	1182.4
45°	1974.4	1970.8	1883.9	1616.6	1312.4	1227.9	1234.8	1284.8	1364.6	1370.1	1405.2
47.5°	2233.7	2232.0	2182.0	1932.7	1579.9	1404.4	1406.6	1459.6	1599.8	1669.1	1725.1
50°	2470.0	2478.0	2438.5	2274.8	1944.3	1680.7	1675.5	1710.8	1936.1	2049.5	2119.1
52.5°	2798.5	2809.8	2699.1	2593.9	2326.7	2023.6	2019.4	2056.4	2340.2	2425.3	2437.7
55°	3088.6	3069.3	2981.8	2951.4	2793.0	2447.1	2446.0	2478.5	2731.1	2767.3	2790.2
57.5°	3216.7	3209.3	3251.5	3321.1	3281.3	2947.6	2945.1	2920.2	3080.9	3084.8	3155.2
60°	3297.6	3306.7	3436.2	3650.7	3749.8	3486.2	3470.2	3318.6	3415.0	3406.4	3481.8
62.5°	3236.9	3254.8	3487.8	3845.3	4100.4	3956.3	3933.7	3683.6	3700.4	3670.9	3741.0
65°	2914.4	2942.3	3324.1	3808.6	4274.3	4323.8	4300.9	4005.7	3927.1	3878.5	3839.5
67.5°	2366.4	2383.0	2781.7	3489.2	4195.9	4543.0	4538.3	4288.2	4098.2	3843.4	3541.4
69°	1955.7	1971.9	2355.7	3153.0	4023.4	4589.9	4599.0	4378.7	4065.6	3630.3	3137.8
70°	1656.4	1673.8	2031.3	2864.7	3823.3	4568.1	4584.4	4370.1	3972.3	3383.5	2783.6
72.5°	868.8	883.7	1250.6	1973.6	3116.8	4194.6	4244.0	4000.8	3367.2	2457.3	1645.9
75°	273.0	281.6	488.4	1031.7	2134.0	3261.5	3272.8	3138.3	2391.0	1351.6	685.5
77.5°	104.1	101.6	162.6	380.1	1078.9	2053.7	2123.0	1961.2	1254.7	477.9	158.2
80°	56.0	56.3	84.5	157.4	461.6	1055.4	1113.9	950.5	445.8	149.1	36.4
82.5°	24.3	25.4	47.5	83.4	212.0	389.3	418.5	348.4	170.3	100.2	13.5
85°	5.2	5.8	22.9	45.3	86.4	109.3	114.6	112.9	108.5	77.9	5.2
87.5°	0.0	0.0	10.2	16.3	21.8	24.8	21.8	28.4	59.9	52.5	2.8
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°	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
2.5°	590.5	585.5	577.0	567.6	561.0	554.1	548.5	546.1	543.3	541.4	543.9
5°	589.4	579.7	563.2	547.2	535.6	526.2	518.5	515.4	512.4	510.2	509.9
7.5°	599.1	585.5	560.1	536.7	518.7	506.0	495.5	491.1	487.5	485.9	484.5
10°	617.6	600.2	566.2	535.6	512.4	490.8	468.2	450.8	439.5	434.3	432.3
12.5°	641.6	619.8	577.8	541.4	507.7	466.3	418.2	376.8	350.1	341.2	336.0
15°	669.7	642.7	593.0	548.8	490.6	414.9	333.5	279.4	254.5	249.6	244.0
17.5°	696.8	667.0	611.2	550.2	453.0	331.6	244.3	207.6	197.9	201.3	202.1
20°	720.5	691.0	629.2	538.1	384.8	248.7	189.1	180.0	183.6	189.9	191.0
22.5°	744.6	714.2	645.7	506.0	297.6	188.8	170.3	172.5	176.1	182.5	183.6
25°	773.8	742.3	661.2	447.2	223.3	160.7	161.8	165.1	168.7	174.5	175.0
27.5°	807.5	778.0	671.4	370.8	165.6	147.7	151.3	156.3	159.8	165.4	166.5
30°	852.2	824.9	674.7	291.5	138.9	136.1	137.8	143.8	149.1	154.0	154.9
32.5°	894.2	871.3	663.7	220.0	128.6	125.3	125.3	128.9	135.0	139.7	140.8
35°	932.8	917.9	628.3	160.9	120.9	115.4	112.6	112.6	116.5	120.4	121.5
37.5°	983.9	983.4	571.2	128.4	113.5	107.1	101.3	96.9	95.5	96.3	96.9
40°	1071.4	1072.2	496.6	115.1	107.1	98.6	89.7	81.7	74.3	71.8	71.5
42.5°	1208.1	1195.6	418.5	108.8	101.6	89.7	76.5	65.7	54.1	50.5	50.2
45°	1425.1	1351.3	335.7	103.0	95.8	79.8	63.2	48.6	39.2	36.4	36.4
47.5°	1741.2	1555.9	260.1	96.6	88.1	68.5	47.8	35.1	28.7	27.3	27.6
50°	2068.0	1756.3	199.3	88.6	78.7	56.6	35.3	25.4	21.8	21.8	22.1
52.5°	2357.9	1903.2	155.4	80.1	67.1	44.4	26.8	19.9	18.2	17.9	18.2
55°	2629.3	1997.9	119.0	70.1	53.3	33.1	20.4	16.3	15.2	14.6	14.4
57.5°	2891.0	2044.8	89.2	56.6	38.6	24.0	16.3	13.8	12.7	11.9	11.6
60°	3065.2	2006.7	61.3	41.7	26.8	17.4	13.5	11.9	10.5	9.7	9.4
62.5°	3163.5	1902.7	39.5	30.1	19.0	13.0	10.8	9.9	8.0	7.2	7.2
65°	3123.7	1730.9	27.6	21.5	13.8	9.7	8.0	8.0	5.8	4.7	4.4
67.5°	2768.1	1462.3	21.0	16.0	9.9	7.2	6.1	6.9	3.6	2.2	2.2
69°	2381.6	1211.9	17.9	13.3	8.3	5.8	5.2	6.3	2.5	1.7	1.4
70°	2070.0	1045.5	16.3	11.6	6.9	5.0	4.7	6.1	2.5	1.4	1.1
72.5°	1238.4	583.1	12.4	8.3	4.4	3.9	3.9	6.9	2.5	1.4	1.1
75°	500.5	205.4	9.1	5.8	3.3	3.3	4.7	8.8	2.2	1.1	0.8
77.5°	113.5	45.0	5.2	3.6	2.2	3.3	5.5	6.9	1.4	0.6	0.0
80°	27.6	11.0	3.3	2.2	1.4	2.5	4.1	3.9	0.3	0.0	0.0
82.5°	9.1	3.9	1.4	1.1	0.3	0.8	1.9	1.1	0.0	0.0	0.0
85°	3.9	2.2	0.6	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0
87.5°	2.5	0.8	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)