

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: P322875

Luminaire Tested: **GAN-SA1B-740-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322875
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-SA1B-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA 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: 4336 lumens
Efficiency: N/A
Efficacy: 98.5 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

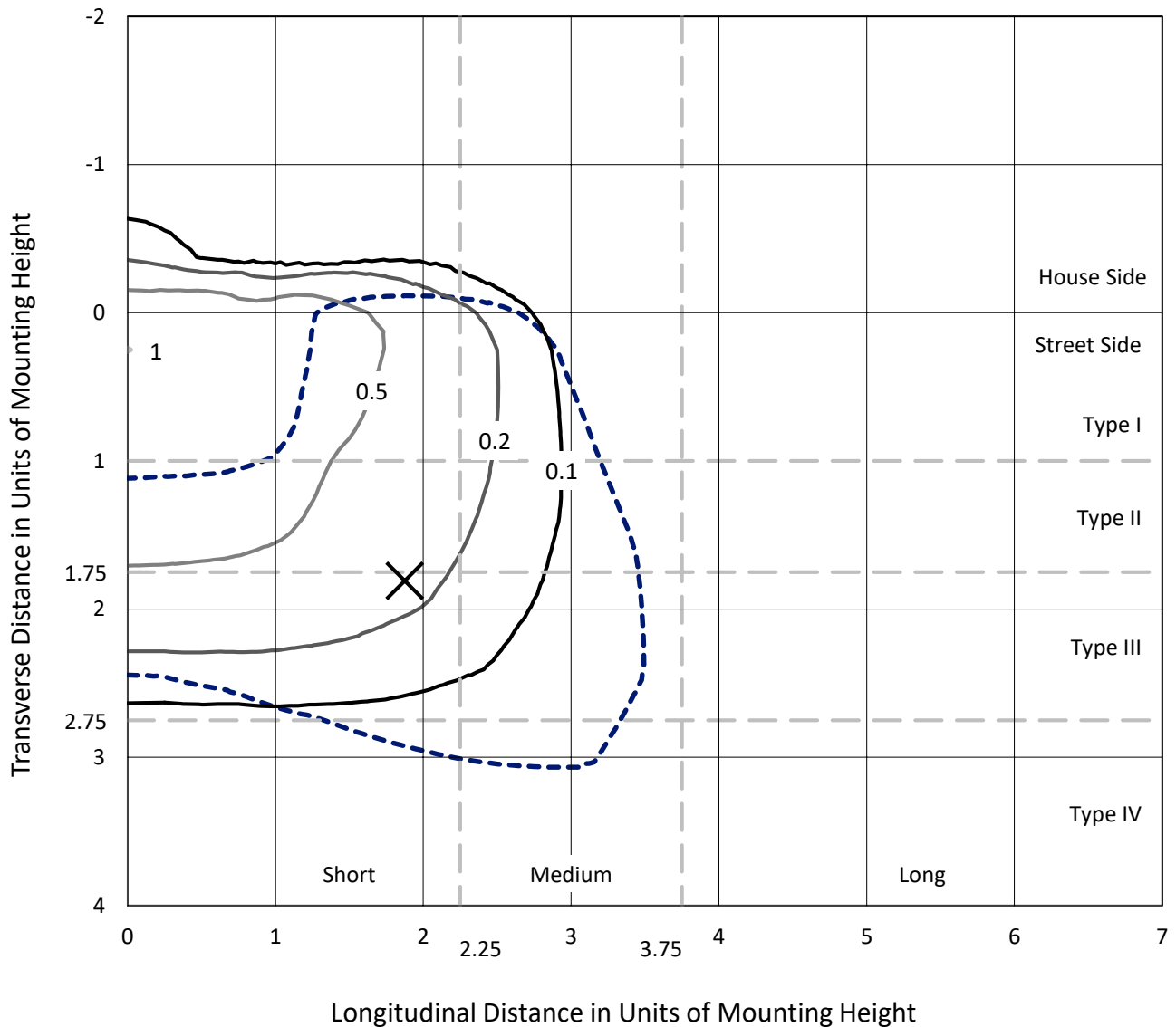
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

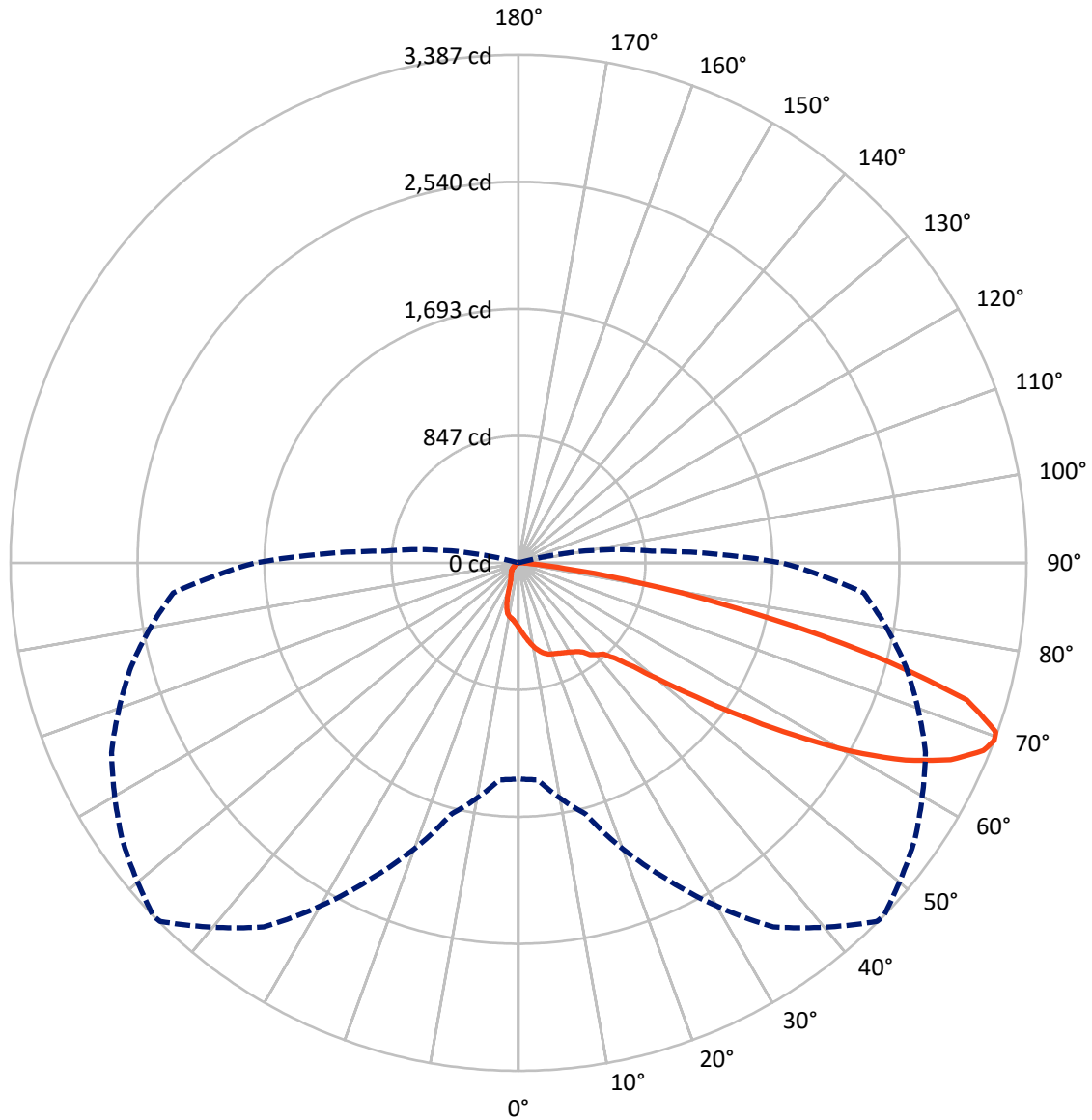
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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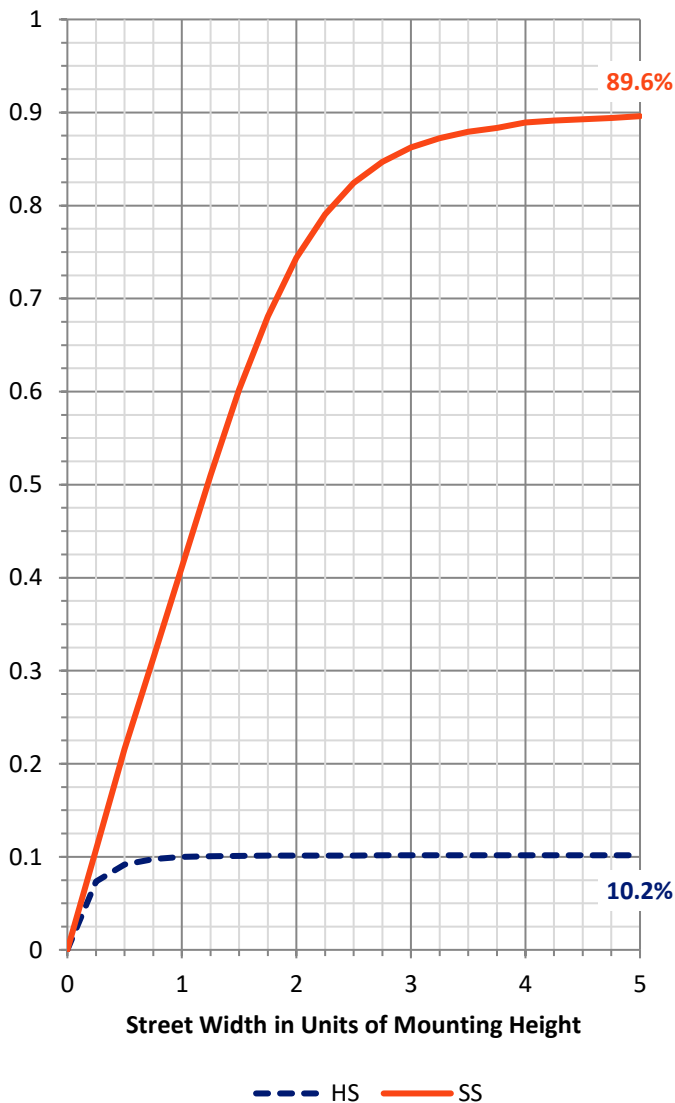
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	445.0	0.0	445.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	3891.0	0.0	3891.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	4336.0	0.0	4336.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	1.0
10°-20°	131.2	3.0
20°-30°	206.3	4.8
30°-40°	295.9	6.8
40°-50°	511.4	11.8
50°-60°	1010.2	23.3
60°-70°	1411.9	32.6
70°-80°	682.1	15.7
80°-90°	43.8	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°	4336.0	100.0
0°-180°	4336.0	100.0

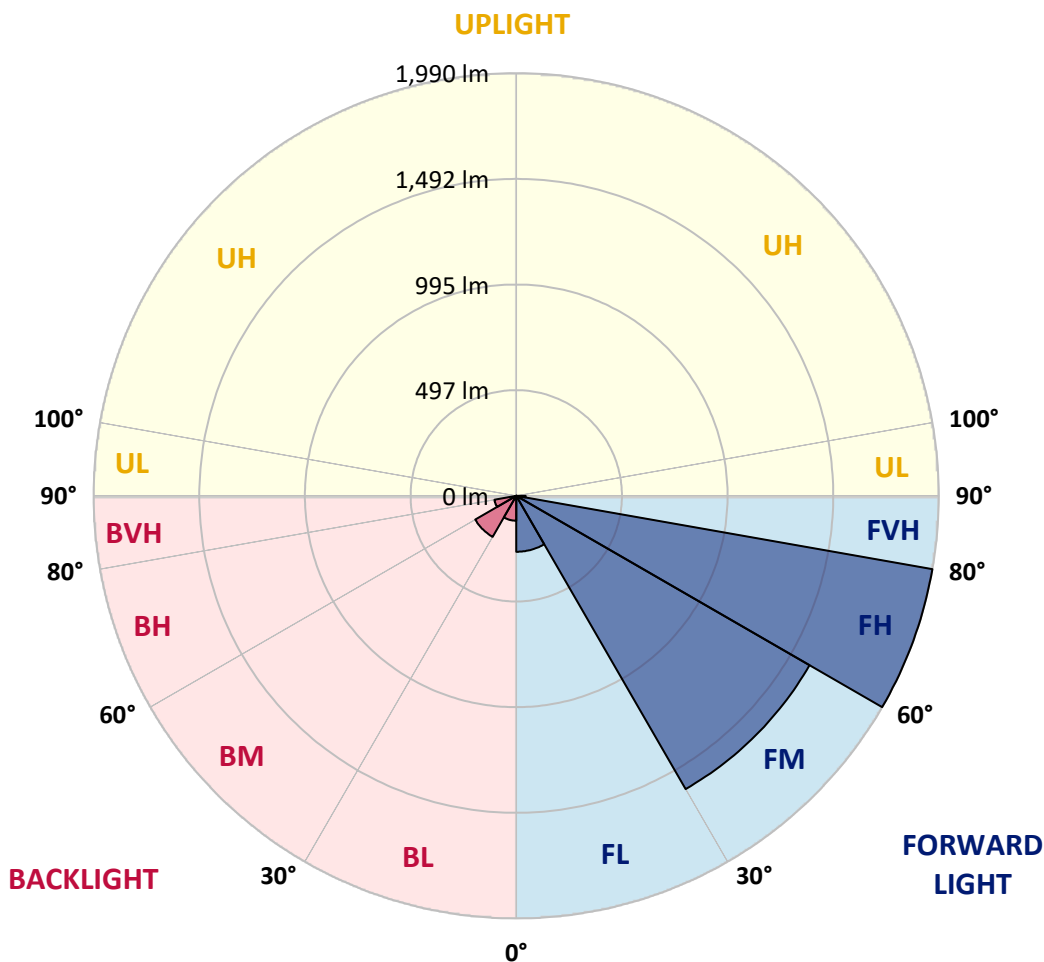


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	263.5	6.1			
FM (30°-60°)	1594.4	36.8			
FH (60°-80°)	1989.6	45.9			G2/5000
FVH (80°-90°)	43.5	1.0			G1/100
BL (0°-30°)	117.3	2.7	B1/500		
BM (30°-60°)	223.0	5.1	B1/1000		
BH (60°-80°)	104.3	2.4	B0/110		G0/110
BVH (80°-90°)	0.4	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°	434.5	434.5	434.5	434.5	434.5	434.5	434.5	434.5	434.5	434.5	434.5
2.5°	482.6	482.0	479.2	478.0	471.0	467.0	465.4	460.3	453.0	445.6	437.5
5°	537.5	537.3	532.0	527.0	513.9	501.7	499.5	487.7	471.2	455.8	440.3
7.5°	593.6	591.0	585.7	575.9	557.0	537.5	535.7	519.0	495.6	473.3	451.1
10°	641.2	639.6	632.7	617.8	595.7	573.5	571.3	550.7	524.3	496.9	468.6
12.5°	678.2	677.0	667.8	649.3	625.8	602.8	599.7	581.4	553.2	522.5	489.1
15°	700.8	700.2	689.0	669.3	646.1	626.2	623.5	607.5	581.2	549.1	511.5
17.5°	706.1	706.3	694.7	674.8	655.6	641.4	639.4	627.2	605.2	573.3	533.9
20°	694.3	696.7	686.3	669.1	657.3	649.7	648.1	640.8	622.3	592.2	551.8
22.5°	677.6	678.8	671.7	660.1	655.2	656.7	655.8	651.8	636.1	608.5	569.4
25°	667.4	667.4	663.2	653.4	656.7	665.4	665.6	664.8	652.4	628.4	591.0
27.5°	667.0	665.8	660.9	653.6	662.6	676.0	676.8	682.3	674.5	652.6	617.8
30°	683.3	681.9	671.5	661.9	673.3	687.8	689.8	701.8	697.9	678.8	647.7
32.5°	721.3	716.2	693.3	677.6	686.1	703.4	706.1	725.2	731.3	711.1	676.6
35°	773.4	757.3	724.2	707.3	708.1	726.2	728.6	756.7	774.8	740.8	698.9
37.5°	845.1	837.2	783.3	738.2	741.8	769.3	776.4	806.9	801.8	757.1	724.4
40°	1002.5	990.1	932.7	824.8	774.2	804.3	806.5	822.8	823.2	793.9	777.2
42.5°	1216.7	1211.7	1151.3	981.9	837.8	827.6	831.7	859.1	889.8	871.5	870.7
45°	1454.0	1451.4	1387.3	1190.5	966.5	904.3	909.4	946.2	1004.9	1009.0	1034.8
47.5°	1644.9	1643.7	1606.9	1423.3	1163.5	1034.2	1035.8	1074.8	1178.1	1229.1	1270.4
50°	1818.9	1824.8	1795.7	1675.2	1431.8	1237.7	1233.8	1259.8	1425.7	1509.3	1560.5
52.5°	2060.8	2069.2	1987.7	1910.2	1713.4	1490.2	1487.1	1514.4	1723.4	1786.0	1795.1
55°	2274.5	2260.3	2195.8	2173.5	2056.8	1802.0	1801.2	1825.2	2011.2	2037.9	2054.7
57.5°	2368.8	2363.4	2394.5	2445.7	2416.4	2170.6	2168.8	2150.5	2268.8	2271.7	2323.5
60°	2428.4	2435.1	2530.5	2688.4	2761.4	2567.3	2555.5	2443.9	2514.8	2508.5	2564.0
62.5°	2383.7	2396.9	2568.5	2831.8	3019.6	2913.5	2896.8	2712.6	2725.0	2703.3	2754.9
65°	2146.2	2166.8	2447.9	2804.7	3147.7	3184.1	3167.2	2949.9	2891.9	2856.2	2827.5
67.5°	1742.7	1754.9	2048.4	2569.5	3089.9	3345.5	3342.0	3157.9	3018.0	2830.3	2607.9
69°	1440.2	1452.2	1734.8	2321.9	2962.9	3380.1	3386.8	3224.5	2994.0	2673.4	2310.7
70°	1219.8	1232.6	1495.9	2109.6	2815.5	3364.0	3376.0	3218.2	2925.3	2491.6	2049.9
72.5°	639.8	650.8	920.9	1453.4	2295.3	3088.9	3125.3	2946.2	2479.6	1809.6	1212.1
75°	201.1	207.4	359.6	759.7	1571.5	2401.8	2410.1	2311.1	1760.8	995.4	504.8
77.5°	76.6	74.8	119.7	279.9	794.5	1512.3	1563.4	1444.2	924.0	351.9	116.5
80°	41.3	41.5	62.2	115.9	339.9	777.2	820.3	700.0	328.3	109.8	26.8
82.5°	17.9	18.7	35.0	61.4	156.1	286.7	308.2	256.6	125.4	73.8	10.0
85°	3.9	4.3	16.9	33.3	63.6	80.5	84.4	83.1	79.9	57.3	3.9
87.5°	0.0	0.0	7.5	12.0	16.1	18.3	16.1	20.9	44.1	38.6	2.0
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°	434.5	434.5	434.5	434.5	434.5	434.5	434.5	434.5	434.5	434.5	434.5
2.5°	434.9	431.2	424.9	418.0	413.1	408.0	404.0	402.1	400.1	398.7	400.5
5°	434.0	426.9	414.7	402.9	394.4	387.5	381.8	379.6	377.3	375.7	375.5
7.5°	441.2	431.2	412.5	395.2	382.0	372.6	364.9	361.7	359.0	357.8	356.8
10°	454.8	442.0	417.0	394.4	377.3	361.5	344.8	332.0	323.7	319.8	318.4
12.5°	472.5	456.4	425.5	398.7	373.9	343.4	308.0	277.5	257.8	251.3	247.4
15°	493.2	473.3	436.7	404.2	361.3	305.6	245.6	205.7	187.4	183.8	179.7
17.5°	513.1	491.2	450.1	405.2	333.6	244.2	179.9	152.9	145.8	148.2	148.8
20°	530.6	508.9	463.3	396.2	283.4	183.2	139.3	132.6	135.2	139.9	140.7
22.5°	548.3	525.9	475.5	372.6	219.2	139.1	125.4	127.1	129.7	134.4	135.2
25°	569.8	546.7	486.9	329.3	164.5	118.3	119.1	121.6	124.2	128.5	128.9
27.5°	594.7	572.9	494.4	273.0	122.0	108.8	111.4	115.1	117.7	121.8	122.6
30°	627.6	607.5	496.9	214.7	102.3	100.2	101.4	105.9	109.8	113.4	114.1
32.5°	658.5	641.6	488.7	162.0	94.7	92.3	92.3	94.9	99.4	102.9	103.7
35°	686.9	676.0	462.7	118.5	89.0	85.0	82.9	82.9	85.8	88.6	89.5
37.5°	724.6	724.2	420.6	94.5	83.6	78.9	74.6	71.4	70.3	71.0	71.4
40°	789.0	789.6	365.7	84.8	78.9	72.6	66.1	60.2	54.7	52.9	52.7
42.5°	889.6	880.5	308.2	80.1	74.8	66.1	56.3	48.4	39.8	37.2	37.0
45°	1049.4	995.2	247.2	75.8	70.5	58.8	46.6	35.8	28.9	26.8	26.8
47.5°	1282.2	1145.8	191.5	71.2	64.9	50.4	35.2	25.8	21.1	20.1	20.3
50°	1522.9	1293.4	146.8	65.3	57.9	41.7	26.0	18.7	16.1	16.1	16.3
52.5°	1736.4	1401.5	114.5	59.0	49.4	32.7	19.7	14.6	13.4	13.2	13.4
55°	1936.2	1471.3	87.6	51.6	39.2	24.4	15.0	12.0	11.2	10.8	10.6
57.5°	2129.0	1505.8	65.7	41.7	28.5	17.7	12.0	10.2	9.4	8.7	8.5
60°	2257.2	1477.8	45.1	30.7	19.7	12.8	10.0	8.7	7.7	7.1	6.9
62.5°	2329.6	1401.1	29.1	22.2	14.0	9.6	7.9	7.3	5.9	5.3	5.3
65°	2300.3	1274.7	20.3	15.9	10.2	7.1	5.9	5.9	4.3	3.5	3.3
67.5°	2038.5	1076.9	15.5	11.8	7.3	5.3	4.5	5.1	2.6	1.6	1.6
69°	1753.9	892.5	13.2	9.8	6.1	4.3	3.9	4.7	1.8	1.2	1.0
70°	1524.3	769.9	12.0	8.5	5.1	3.7	3.5	4.5	1.8	1.0	0.8
72.5°	912.0	429.4	9.1	6.1	3.3	2.8	2.8	5.1	1.8	1.0	0.8
75°	368.6	151.3	6.7	4.3	2.4	2.4	3.5	6.5	1.6	0.8	0.6
77.5°	83.6	33.1	3.9	2.6	1.6	2.4	4.1	5.1	1.0	0.4	0.0
80°	20.3	8.1	2.4	1.6	1.0	1.8	3.0	2.8	0.2	0.0	0.0
82.5°	6.7	2.8	1.0	0.8	0.2	0.6	1.4	0.8	0.0	0.0	0.0
85°	2.8	1.6	0.4	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0
87.5°	1.8	0.6	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)