

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: P322845

Luminaire Tested: **GAN-SA1C-730-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322845  
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-SA1C-730-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA 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: 4888 lumens  
Efficiency: N/A  
Efficacy: 82.8 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

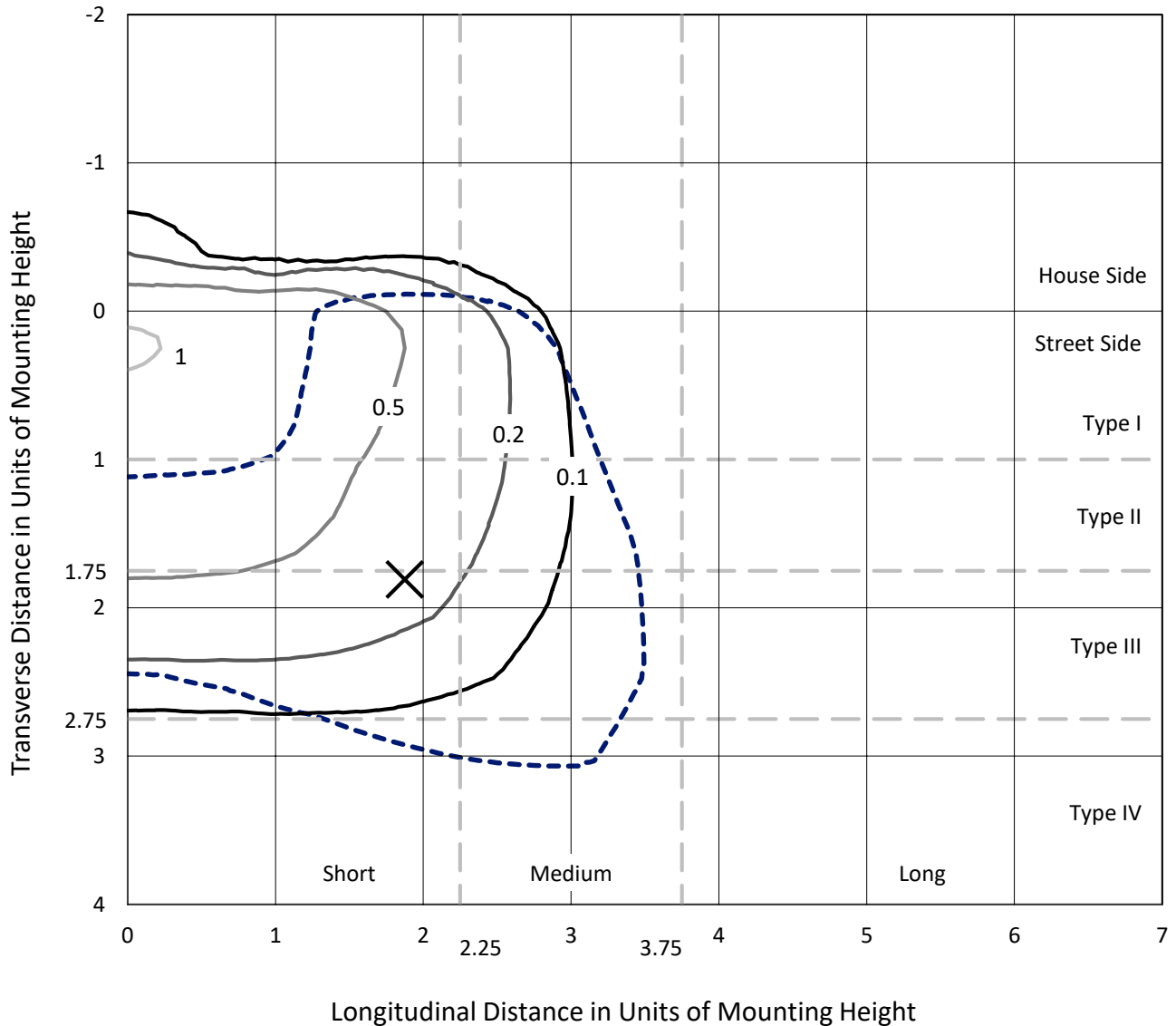
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

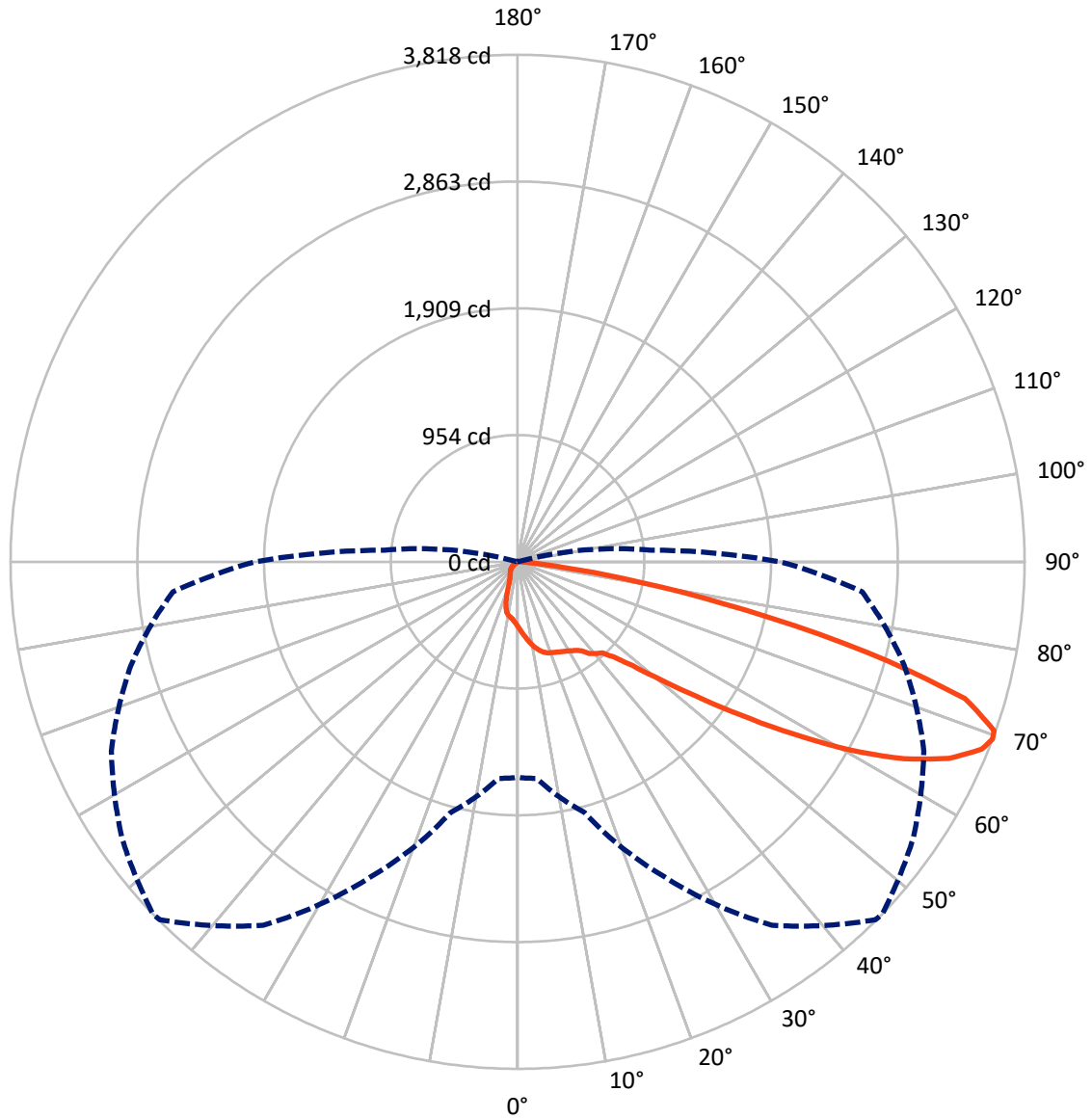
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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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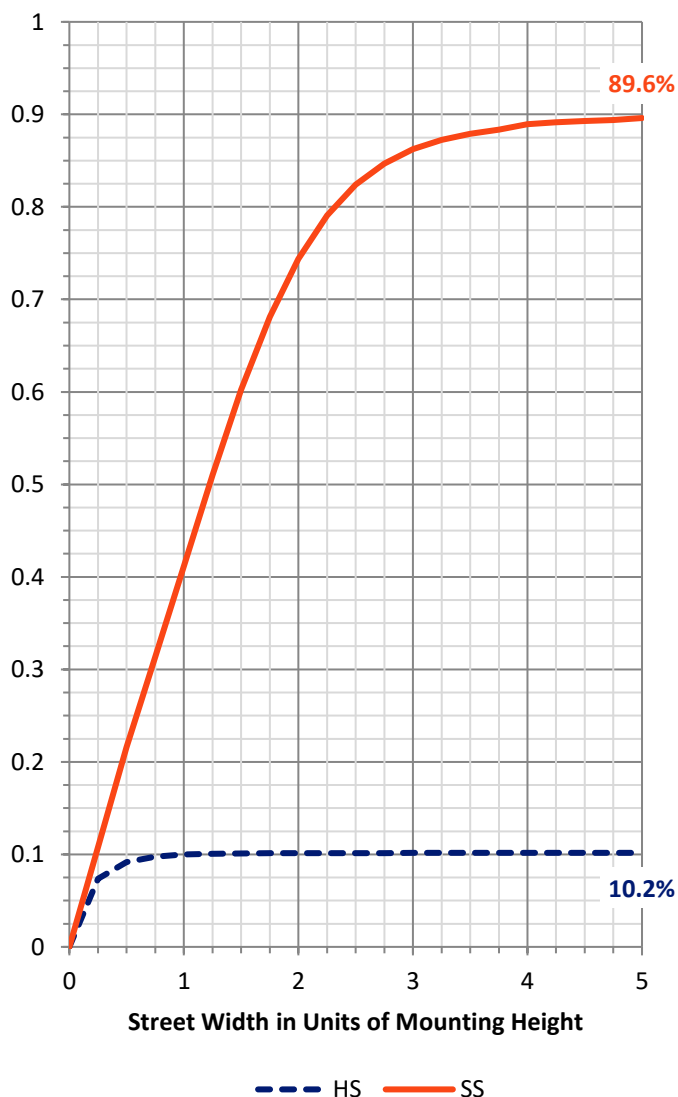
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	501.6	0.0	501.6
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	4386.4	0.0	4386.4
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	4888.0	0.0	4888.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.7	1.0
10°-20°	147.9	3.0
20°-30°	232.6	4.8
30°-40°	333.5	6.8
40°-50°	576.4	11.8
50°-60°	1138.8	23.3
60°-70°	1591.6	32.6
70°-80°	768.9	15.7
80°-90°	49.4	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°	4888.0	100.0
0°-180°	4888.0	100.0

**Coefficient of Utilization**

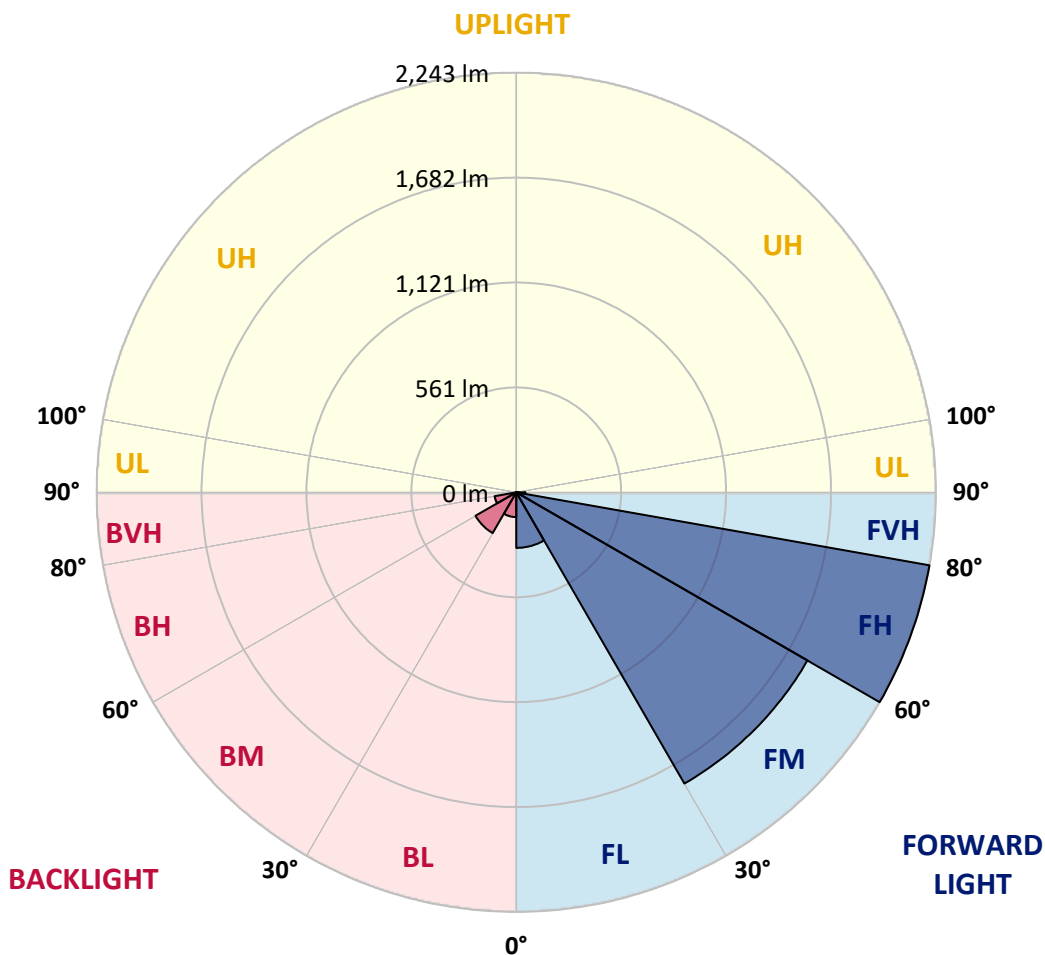


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	297.0	6.1			
FM (30°-60°)	1797.4	36.8			
FH (60°-80°)	2242.9	45.9			G2/5000
FVH (80°-90°)	49.0	1.0			G1/100
BL (0°-30°)	132.2	2.7	B1/500		
BM (30°-60°)	251.4	5.1	B1/1000		
BH (60°-80°)	117.6	2.4	B1/500		G1/500
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°	489.8	489.8	489.8	489.8	489.8	489.8	489.8	489.8	489.8	489.8	489.8
2.5°	544.1	543.4	540.2	538.8	531.0	526.4	524.6	518.9	510.6	502.4	493.2
5°	606.0	605.7	599.8	594.0	579.4	565.6	563.1	549.8	531.2	513.8	496.4
7.5°	669.2	666.2	660.3	649.3	628.0	606.0	603.9	585.1	558.7	533.5	508.6
10°	722.8	721.0	713.2	696.5	671.5	646.5	644.0	620.9	591.1	560.1	528.3
12.5°	764.5	763.2	752.9	732.0	705.4	679.5	676.1	655.5	623.6	589.0	551.4
15°	790.0	789.3	776.7	754.5	728.3	705.9	702.9	684.8	655.2	619.0	576.6
17.5°	795.9	796.2	783.1	760.7	739.1	723.1	720.8	707.0	682.3	646.3	601.8
20°	782.7	785.4	773.7	754.2	740.9	732.5	730.6	722.4	701.5	667.6	622.0
22.5°	763.9	765.2	757.2	744.1	738.6	740.3	739.3	734.8	717.1	685.9	641.9
25°	752.4	752.4	747.6	736.6	740.3	750.1	750.3	749.4	735.4	708.4	666.2
27.5°	751.9	750.6	745.1	736.8	746.9	762.0	762.9	769.1	760.4	735.7	696.5
30°	770.3	768.7	757.0	746.2	759.0	775.3	777.6	791.1	786.8	765.2	730.2
32.5°	813.1	807.4	781.5	763.9	773.5	793.0	795.9	817.5	824.4	801.7	762.7
35°	871.8	853.7	816.3	797.3	798.2	818.6	821.4	853.0	873.4	835.1	787.9
37.5°	952.7	943.8	883.0	832.2	836.3	867.2	875.2	909.6	903.9	853.5	816.6
40°	1130.1	1116.1	1051.5	929.8	872.7	906.6	909.2	927.5	928.0	895.0	876.2
42.5°	1371.6	1365.9	1297.9	1106.9	944.5	933.0	937.6	968.5	1003.1	982.5	981.6
45°	1639.1	1636.1	1563.9	1342.1	1089.5	1019.4	1025.1	1066.6	1132.8	1137.4	1166.5
47.5°	1854.3	1852.9	1811.4	1604.5	1311.6	1165.8	1167.7	1211.7	1328.1	1385.6	1432.2
50°	2050.5	2057.1	2024.4	1888.4	1614.1	1395.3	1390.9	1420.2	1607.2	1701.4	1759.2
52.5°	2323.2	2332.6	2240.7	2153.4	1931.5	1679.9	1676.5	1707.2	1942.8	2013.4	2023.7
55°	2564.1	2548.0	2475.4	2450.2	2318.6	2031.5	2030.5	2057.6	2267.3	2297.3	2316.3
57.5°	2670.4	2664.2	2699.3	2757.0	2724.0	2447.0	2444.9	2424.3	2557.7	2560.9	2619.3
60°	2737.6	2745.1	2852.6	3030.7	3113.0	2894.1	2880.8	2755.0	2835.0	2827.9	2890.4
62.5°	2687.1	2702.0	2895.5	3192.3	3404.0	3284.4	3265.6	3058.0	3071.9	3047.4	3105.6
65°	2419.5	2442.6	2759.6	3161.8	3548.4	3589.4	3570.4	3325.4	3260.1	3219.8	3187.4
67.5°	1964.5	1978.3	2309.2	2896.6	3483.3	3771.4	3767.5	3559.9	3402.2	3190.7	2939.9
69°	1623.5	1637.0	1955.6	2617.5	3340.1	3810.4	3817.9	3635.0	3375.1	3013.7	2604.9
70°	1375.1	1389.5	1686.3	2378.2	3173.9	3792.3	3805.8	3627.9	3297.7	2808.8	2310.8
72.5°	721.2	733.6	1038.2	1638.4	2587.5	3482.2	3523.2	3321.3	2795.3	2039.9	1366.4
75°	226.7	233.8	405.4	856.4	1771.6	2707.5	2716.9	2605.3	1984.9	1122.1	569.1
77.5°	86.4	84.3	135.0	315.6	895.6	1704.9	1762.4	1628.1	1041.6	396.7	131.3
80°	46.5	46.8	70.1	130.6	383.2	876.2	924.7	789.1	370.1	123.8	30.3
82.5°	20.2	21.1	39.4	69.2	176.0	323.1	347.4	289.2	141.4	83.2	11.2
85°	4.4	4.8	19.0	37.6	71.7	90.8	95.1	93.7	90.1	64.6	4.4
87.5°	0.0	0.0	8.5	13.5	18.1	20.6	18.1	23.6	49.7	43.5	2.3
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°	489.8	489.8	489.8	489.8	489.8	489.8	489.8	489.8	489.8	489.8	489.8
2.5°	490.2	486.1	479.0	471.2	465.7	460.0	455.4	453.3	451.0	449.4	451.5
5°	489.3	481.3	467.5	454.2	444.6	436.8	430.4	427.9	425.4	423.5	423.3
7.5°	497.3	486.1	465.0	445.5	430.6	420.1	411.4	407.7	404.7	403.4	402.2
10°	512.7	498.2	470.0	444.6	425.4	407.5	388.7	374.3	364.9	360.5	358.9
12.5°	532.6	514.5	479.7	449.4	421.5	387.1	347.2	312.8	290.6	283.3	278.9
15°	556.0	533.5	492.3	455.6	407.3	344.5	276.9	231.9	211.3	207.2	202.6
17.5°	578.5	553.7	507.4	456.8	376.1	275.2	202.8	172.3	164.3	167.1	167.8
20°	598.2	573.6	522.3	446.7	319.5	206.5	157.0	149.4	152.4	157.7	158.6
22.5°	618.1	592.9	536.1	420.1	247.1	156.8	141.4	143.2	146.2	151.5	152.4
25°	642.4	616.3	548.9	371.3	185.4	133.4	134.3	137.1	140.0	144.8	145.3
27.5°	670.4	645.8	557.4	307.8	137.5	122.6	125.6	129.7	132.7	137.3	138.2
30°	707.5	684.8	560.1	242.0	115.3	113.0	114.4	119.4	123.8	127.9	128.6
32.5°	742.3	723.3	551.0	182.7	106.8	104.0	104.0	107.0	112.1	116.0	116.9
35°	774.4	762.0	521.6	133.6	100.4	95.8	93.5	93.5	96.7	99.9	100.8
37.5°	816.8	816.3	474.2	106.6	94.2	88.9	84.1	80.4	79.3	80.0	80.4
40°	889.5	890.1	412.3	95.6	88.9	81.8	74.5	67.8	61.6	59.6	59.4
42.5°	1002.9	992.6	347.4	90.3	84.3	74.5	63.5	54.5	44.9	41.9	41.7
45°	1183.0	1121.8	278.7	85.5	79.5	66.2	52.5	40.3	32.5	30.3	30.3
47.5°	1445.4	1291.7	215.9	80.2	73.1	56.8	39.6	29.1	23.8	22.7	22.9
50°	1716.8	1458.0	165.5	73.6	65.3	47.0	29.3	21.1	18.1	18.1	18.3
52.5°	1957.4	1580.0	129.0	66.5	55.7	36.9	22.2	16.5	15.1	14.9	15.1
55°	2182.7	1658.6	98.8	58.2	44.2	27.5	17.0	13.5	12.6	12.1	11.9
57.5°	2400.0	1697.5	74.0	47.0	32.1	19.9	13.5	11.5	10.5	9.9	9.6
60°	2544.6	1665.9	50.9	34.6	22.2	14.4	11.2	9.9	8.7	8.0	7.8
62.5°	2626.2	1579.5	32.8	25.0	15.8	10.8	8.9	8.3	6.6	6.0	6.0
65°	2593.2	1437.0	22.9	17.9	11.5	8.0	6.6	6.6	4.8	3.9	3.7
67.5°	2298.0	1214.0	17.4	13.3	8.3	6.0	5.0	5.7	3.0	1.8	1.8
69°	1977.1	1006.1	14.9	11.0	6.9	4.8	4.4	5.3	2.1	1.4	1.1
70°	1718.4	867.9	13.5	9.6	5.7	4.1	3.9	5.0	2.1	1.1	0.9
72.5°	1028.1	484.0	10.3	6.9	3.7	3.2	3.2	5.7	2.1	1.1	0.9
75°	415.5	170.5	7.6	4.8	2.8	2.8	3.9	7.3	1.8	0.9	0.7
77.5°	94.2	37.4	4.4	3.0	1.8	2.8	4.6	5.7	1.1	0.5	0.0
80°	22.9	9.2	2.8	1.8	1.1	2.1	3.4	3.2	0.2	0.0	0.0
82.5°	7.6	3.2	1.1	0.9	0.2	0.7	1.6	0.9	0.0	0.0	0.0
85°	3.2	1.8	0.5	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0
87.5°	2.1	0.7	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)