

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P385898

Luminaire Tested: GAW-SA1C-727-U-T4FT-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P385898  
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  
Product Line: STREETWORKS  
Catalog Number: GAW-SA1C-727-U-T4FT-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA 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: 4486 lumens  
Efficiency: N/A  
Efficacy: 76.0 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

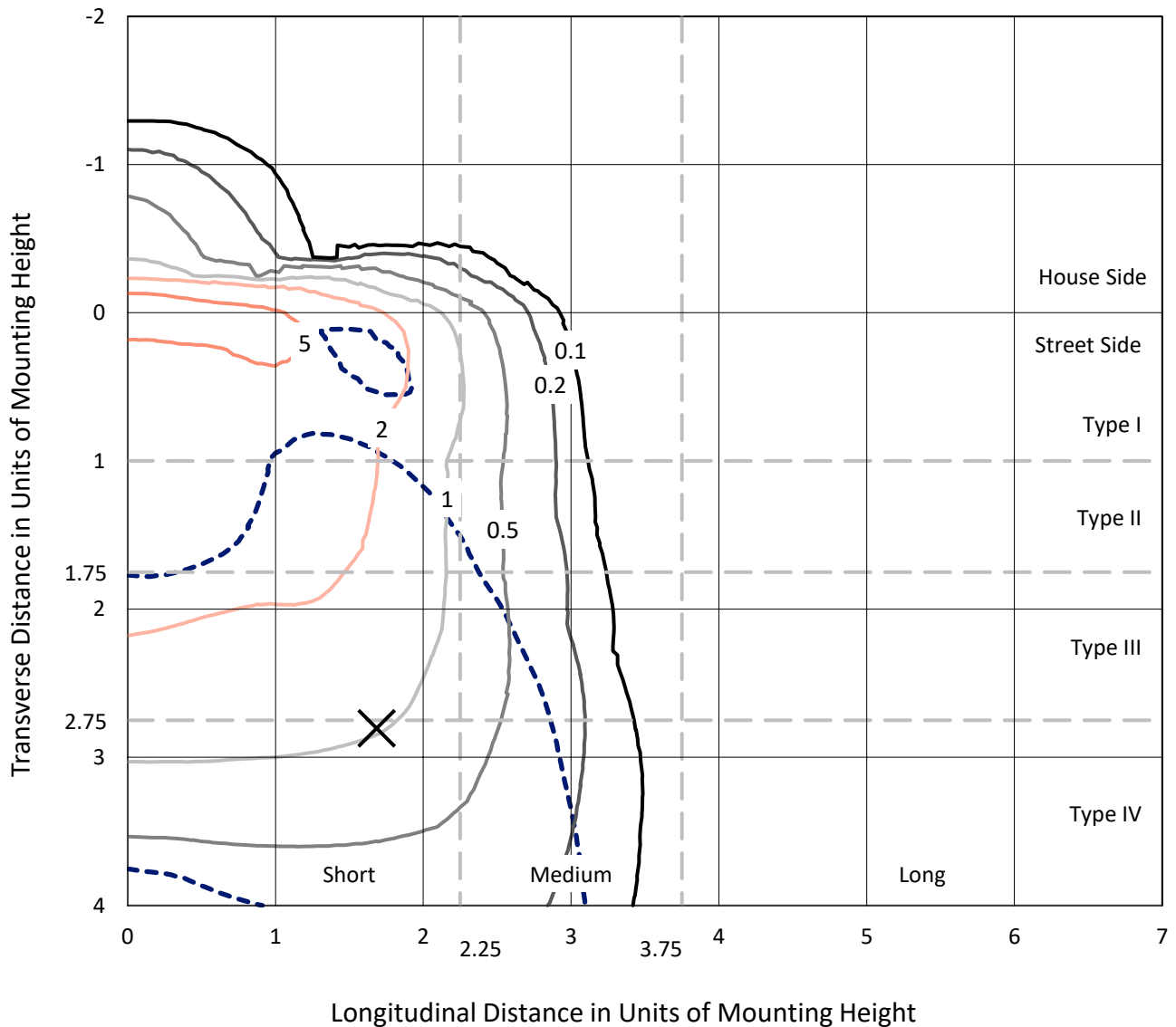
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

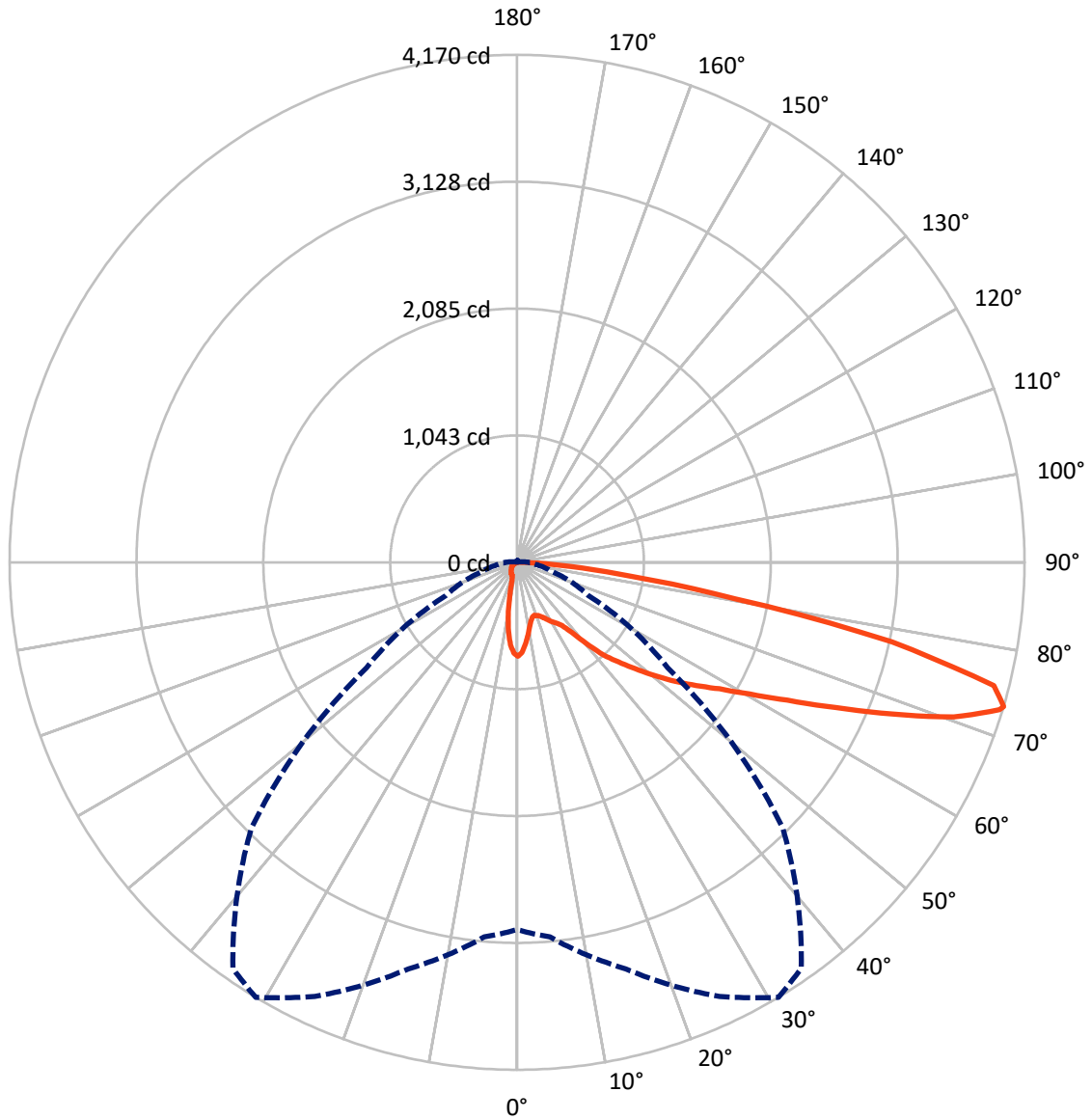
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 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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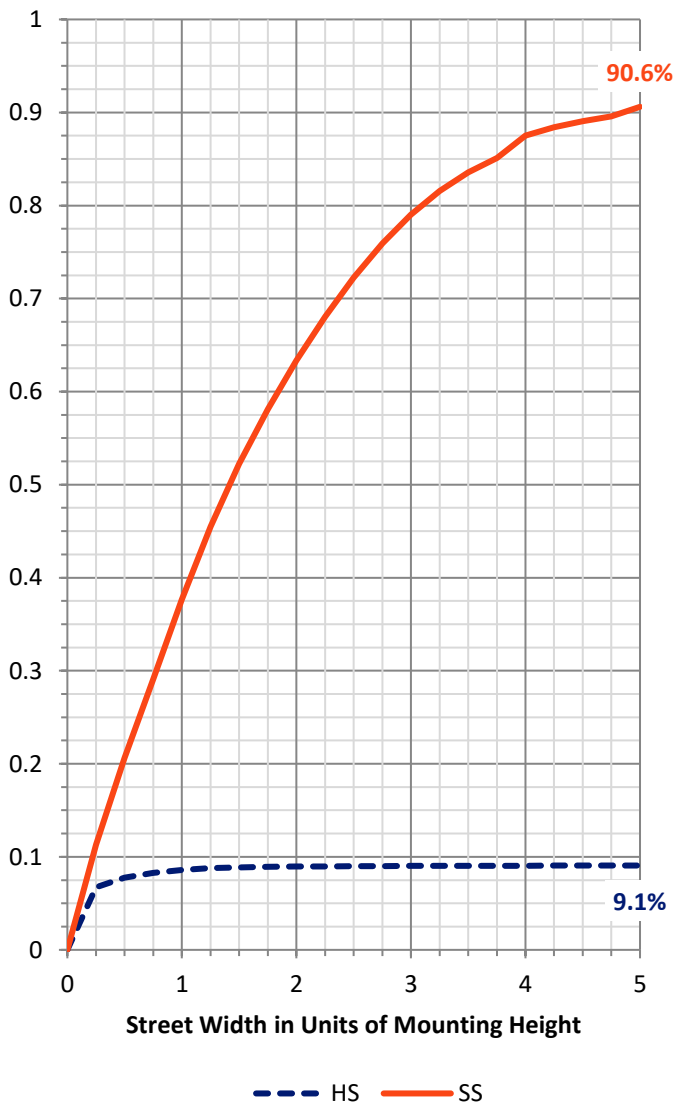
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	408.9	0.0	408.9
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	4077.1	0.0	4077.1
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	4486.0	0.0	4486.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.0	1.4
10°-20°	139.0	3.1
20°-30°	208.2	4.6
30°-40°	331.2	7.4
40°-50°	591.5	13.2
50°-60°	917.8	20.5
60°-70°	1220.1	27.2
70°-80°	917.8	20.5
80°-90°	96.4	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°	4486.0	100.0
0°-180°	4486.0	100.0

**Coefficient of Utilization**



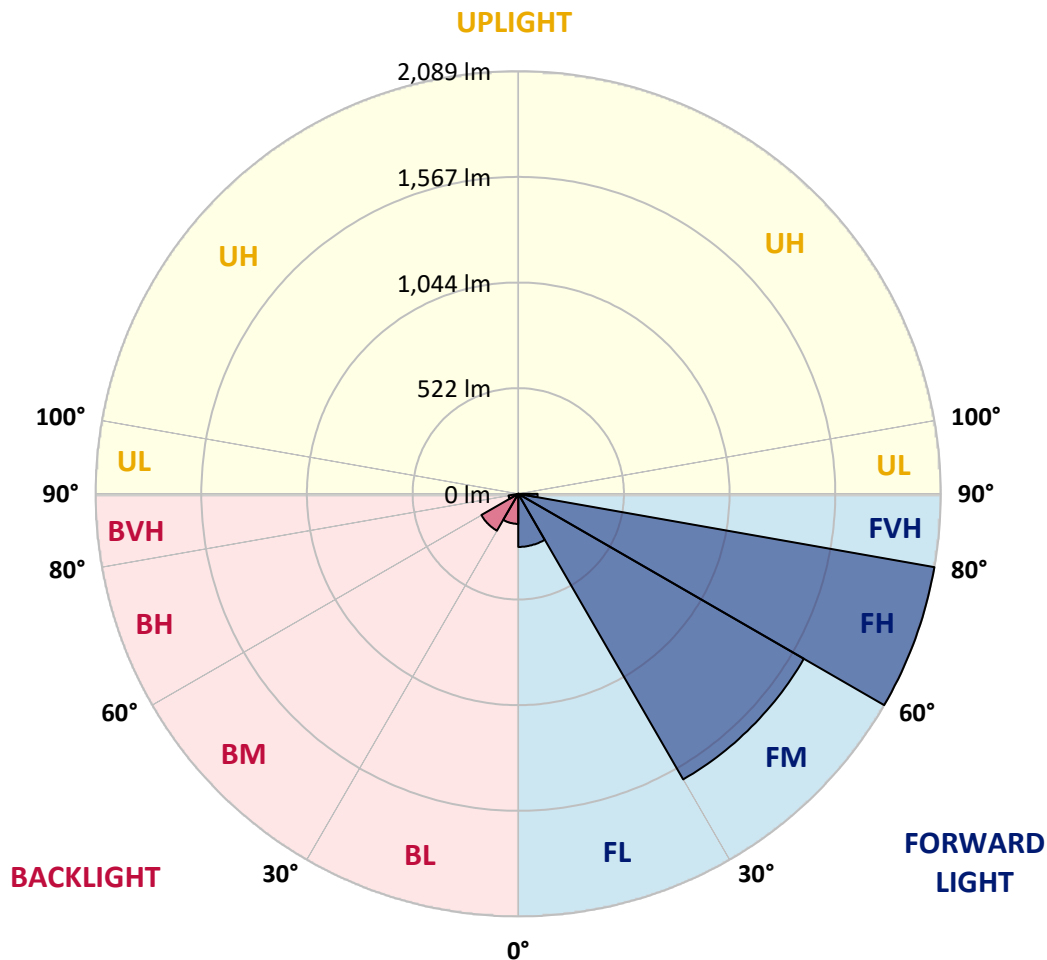
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	262.4	5.9			
FM (30°-60°)	1630.1	36.3			
FH (60°-80°)	2089.0	46.6			G2/5000
FVH (80°-90°)	95.6	2.1			G1/100
BL (0°-30°)	148.7	3.3	B1/500		
BM (30°-60°)	210.5	4.7	B0/220		
BH (60°-80°)	48.9	1.1	B0/110		G0/110
BVH (80°-90°)	0.8	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°	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8
2.5°	731.4	734.5	737.8	738.5	743.9	744.2	752.1	758.0	763.9	769.6	771.6
5°	656.4	661.4	667.3	673.3	684.9	689.5	708.8	728.6	747.5	765.5	774.2
7.5°	576.2	581.9	590.3	605.0	617.9	626.9	657.5	692.6	727.7	760.8	779.9
10°	503.1	508.4	517.2	532.8	552.7	565.0	606.1	654.8	706.4	756.7	788.5
12.5°	456.6	459.5	464.3	481.0	499.0	512.8	561.1	621.5	688.8	756.5	802.3
15°	448.0	448.9	445.0	452.4	466.5	479.9	528.8	594.5	675.5	760.0	820.3
17.5°	461.6	461.2	448.0	447.2	458.4	469.3	513.0	575.8	666.0	768.1	843.6
20°	482.3	480.7	457.9	453.7	465.6	475.9	511.9	568.8	662.5	781.7	871.9
22.5°	509.7	507.1	471.3	466.9	479.6	490.4	525.5	575.6	665.6	799.9	904.9
25°	543.7	539.8	494.4	489.5	502.5	513.2	549.9	595.1	674.8	822.1	946.6
27.5°	582.2	576.5	531.2	518.7	533.4	544.6	582.4	625.0	689.3	845.6	997.7
30°	618.4	610.9	570.1	549.5	567.5	580.0	617.5	660.5	712.6	881.8	1067.7
32.5°	654.8	646.5	604.8	580.2	596.4	610.0	653.7	709.5	756.2	937.1	1160.8
35°	738.7	729.9	678.7	638.1	637.9	645.6	704.4	776.4	814.0	1014.2	1271.9
37.5°	879.8	874.8	826.0	749.0	728.4	719.8	773.6	856.3	897.0	1120.2	1397.2
40°	1034.4	1030.0	975.3	905.5	874.1	853.0	872.8	967.6	1014.2	1249.7	1525.2
42.5°	1208.9	1188.0	1090.6	1069.7	1041.6	1025.6	1007.8	1104.8	1158.2	1390.6	1652.1
45°	1367.4	1332.3	1205.8	1174.2	1167.8	1171.8	1181.7	1289.2	1320.2	1558.1	1778.5
47.5°	1461.8	1434.1	1337.1	1306.8	1305.0	1331.2	1405.8	1497.6	1481.5	1704.1	1889.8
50°	1551.6	1526.5	1446.0	1453.4	1461.6	1497.1	1660.2	1711.8	1628.8	1836.5	1991.9
52.5°	1624.2	1586.0	1543.9	1585.8	1625.8	1683.0	1922.8	1904.1	1733.3	1941.9	2079.3
55°	1666.1	1648.8	1669.2	1711.4	1786.4	1879.5	2170.6	2064.1	1809.7	2038.0	2137.4
57.5°	1819.8	1785.8	1826.4	1862.8	1960.7	2090.9	2382.9	2183.3	1864.8	2097.5	2150.8
60°	2005.7	1978.3	2002.2	2062.8	2195.0	2348.0	2581.3	2280.6	1893.6	2135.7	2116.2
62.5°	2301.6	2265.4	2250.5	2318.3	2493.5	2660.6	2731.9	2348.0	1887.2	2118.8	1997.2
65°	2698.1	2660.6	2593.8	2655.3	2878.1	2996.0	2900.3	2362.2	1843.3	1982.0	1696.4
67.5°	3104.2	3077.0	3019.9	3123.5	3324.6	3362.6	3078.3	2327.5	1701.9	1607.1	1198.6
70°	3372.5	3360.8	3397.9	3627.1	3806.4	3795.5	3241.6	2141.2	1326.5	988.3	592.9
72.5°	3179.1	3234.8	3508.8	3924.3	4143.4	4053.8	3157.8	1644.2	758.2	380.2	171.4
73°	3018.8	3090.2	3458.9	3935.5	4170.0	4071.8	3087.3	1509.2	646.3	300.1	130.0
75°	2100.1	2187.7	2863.6	3665.3	4045.7	3879.5	2573.4	923.7	299.4	133.0	52.5
77.5°	1019.7	1084.4	1576.8	2648.3	3146.4	3031.1	1602.0	344.2	135.2	83.2	24.1
80°	380.6	423.2	684.5	1347.8	1818.3	1865.9	704.7	130.2	90.0	67.0	12.3
82.5°	99.7	111.1	252.4	601.0	931.9	975.3	222.2	65.6	65.9	55.1	7.5
85°	31.8	36.4	78.8	269.8	439.0	385.5	58.0	31.8	47.9	41.0	4.2
87.5°	4.0	5.0	25.0	63.4	96.8	53.8	9.0	9.4	20.4	22.8	2.4
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°	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8
2.5°	773.6	772.5	772.7	767.0	763.3	755.8	748.1	744.6	740.9	739.3	740.9
5°	777.5	775.6	769.8	752.3	733.6	709.5	686.9	669.7	648.2	642.3	648.5
7.5°	783.7	779.7	763.0	727.3	685.8	639.7	587.9	550.1	519.2	499.2	506.4
10°	792.7	785.2	751.6	690.8	616.6	535.0	461.4	404.1	363.5	346.8	346.2
12.5°	807.8	793.8	737.6	643.4	532.1	423.2	326.9	264.7	231.8	210.5	210.1
15°	824.5	803.9	719.8	586.6	433.8	303.2	210.5	163.3	142.0	135.2	134.3
17.5°	844.9	815.5	696.8	516.5	330.8	200.9	137.4	123.8	122.9	122.3	122.3
20°	870.6	829.3	667.1	436.4	234.7	134.1	116.8	117.7	118.1	117.2	117.4
22.5°	900.5	843.4	631.8	350.4	158.7	112.2	111.7	112.8	113.3	112.8	113.1
25°	935.1	859.6	588.7	260.1	114.6	106.5	107.6	109.1	110.2	110.2	110.2
27.5°	978.2	879.4	536.9	181.5	99.0	100.5	103.6	106.5	108.0	108.4	108.4
30°	1034.1	904.0	474.8	124.5	90.0	92.6	98.3	103.8	106.7	107.1	107.3
32.5°	1104.8	931.6	402.8	92.0	82.3	84.3	90.4	99.7	105.1	106.0	106.0
35°	1185.8	963.7	325.3	80.1	76.8	77.5	82.3	92.9	102.5	104.9	105.1
37.5°	1274.5	995.3	247.4	74.9	72.2	72.2	75.7	84.7	96.1	103.6	104.5
40°	1357.3	1014.4	173.4	70.7	68.1	68.1	71.1	77.7	88.5	99.7	102.1
42.5°	1433.7	1021.0	120.7	66.7	64.1	64.8	67.4	72.7	80.8	92.0	94.2
45°	1512.3	1019.9	88.0	62.1	60.1	62.1	64.1	68.1	74.0	80.3	80.8
47.5°	1571.5	1010.7	69.8	57.7	56.4	59.1	60.8	63.4	66.7	66.3	66.3
50°	1627.1	988.3	56.2	51.8	52.7	55.8	56.6	57.5	57.7	53.6	53.1
52.5°	1669.2	953.4	45.0	45.4	49.0	52.0	51.1	49.8	47.6	42.6	41.7
55°	1683.3	886.2	35.3	37.5	43.5	47.4	44.1	41.3	37.1	32.9	32.0
57.5°	1657.8	799.5	28.8	29.2	36.7	40.0	36.2	32.9	28.3	24.8	24.1
60°	1603.8	703.1	23.7	22.0	28.3	31.2	28.8	25.5	21.3	18.7	18.4
62.5°	1496.7	600.4	19.5	17.1	21.5	23.9	22.4	20.0	16.5	14.7	14.5
65°	1271.4	480.3	15.8	13.8	16.7	18.7	17.3	15.6	13.0	11.6	11.4
67.5°	887.5	324.7	13.0	11.4	13.2	14.7	13.6	12.7	10.3	10.1	10.3
70°	428.1	156.5	10.8	9.2	10.3	11.4	11.0	10.3	9.9	11.4	13.2
72.5°	122.7	52.5	8.6	7.7	8.3	9.0	9.4	9.2	10.8	13.8	16.0
73°	94.4	42.4	8.1	7.2	7.9	8.8	9.2	9.0	11.0	14.0	16.0
75°	40.4	20.4	6.1	5.9	6.6	7.7	8.1	8.1	11.0	14.3	15.4
77.5°	18.2	11.0	4.0	4.6	5.7	6.1	6.8	6.8	8.8	11.0	11.0
80°	10.3	5.9	3.1	3.5	4.2	4.2	4.2	3.7	4.0	4.4	4.8
82.5°	6.6	4.0	2.4	2.9	2.6	2.2	1.8	1.8	1.5	1.8	2.2
85°	3.7	2.2	2.2	1.8	1.1	0.9	1.1	0.9	0.2	0.0	0.2
87.5°	2.2	1.3	0.7	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)