

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: P386262

Luminaire Tested: GAW-SA1D-827-U-T4FT-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386262  
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-SA1D-827-U-T4FT-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 80 CRI, 2700K, 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: 4327 lumens  
Efficiency: N/A  
Efficacy: 65.6 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

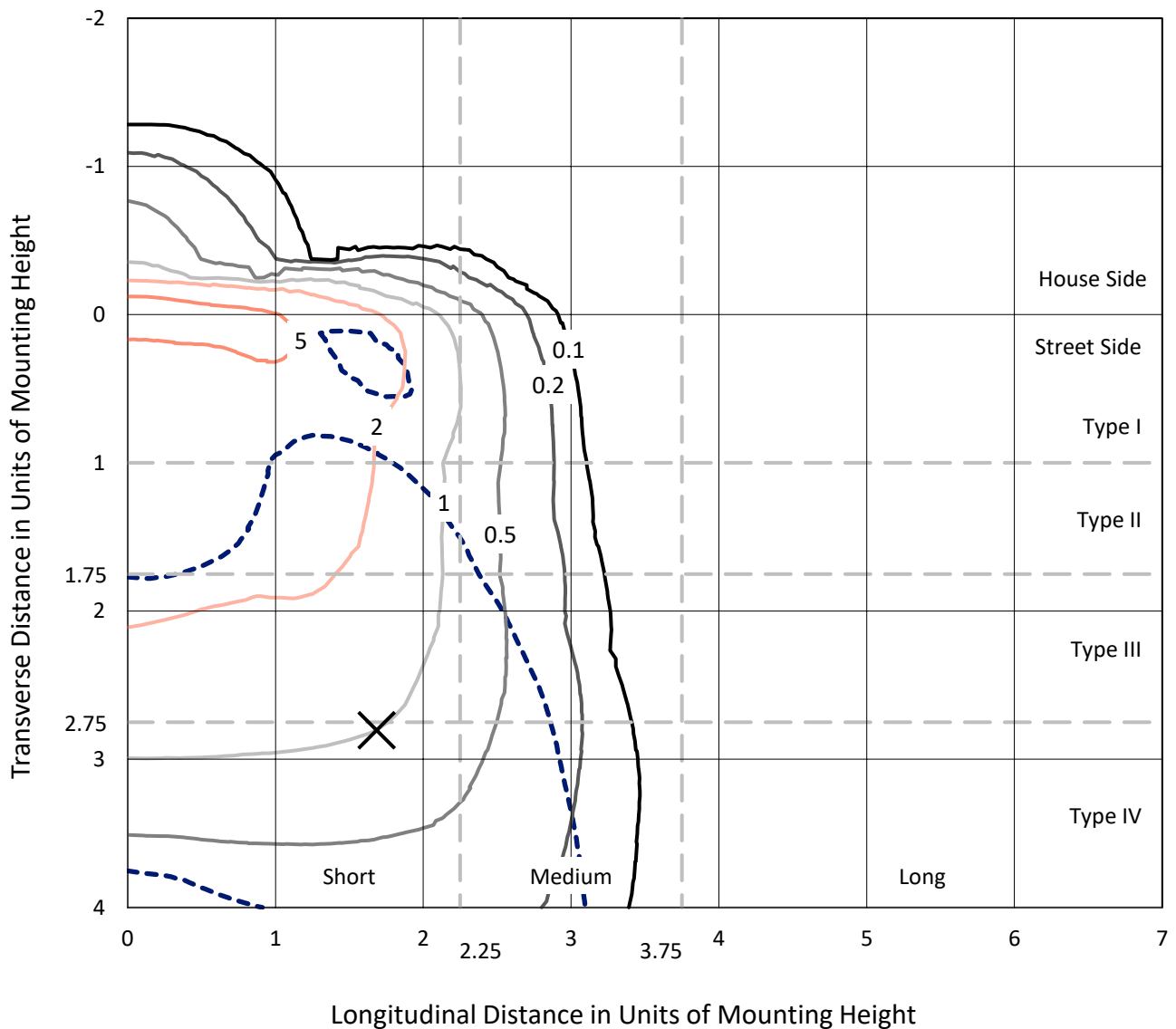
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

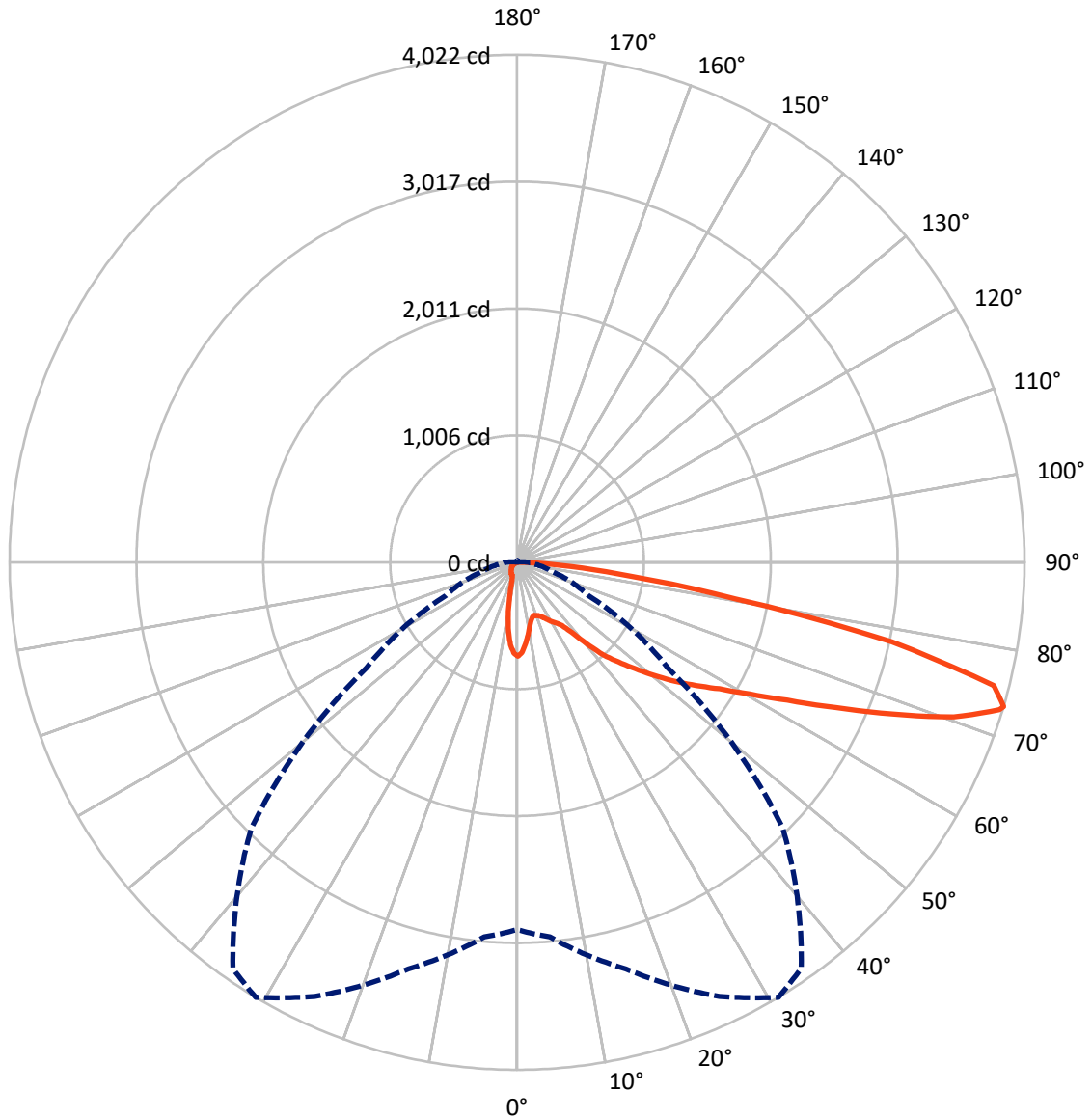
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 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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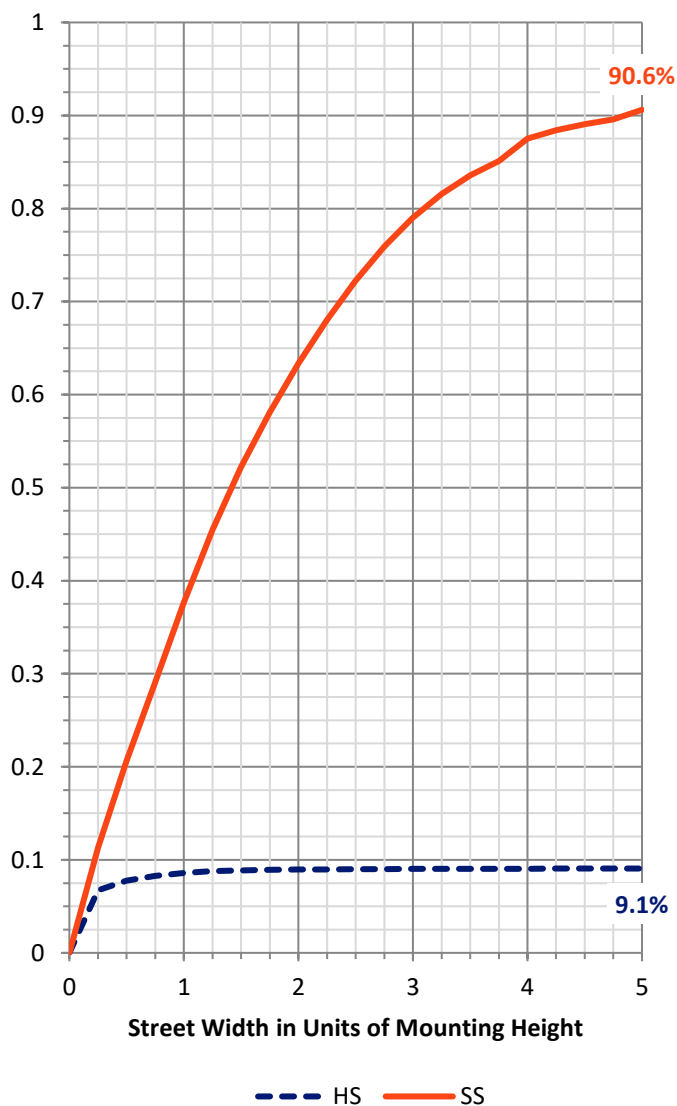
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	394.4	0.0	394.4
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	3932.6	0.0	3932.6
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	4327.0	0.0	4327.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.7	1.4
10°-20°	134.0	3.1
20°-30°	200.8	4.6
30°-40°	319.5	7.4
40°-50°	570.5	13.2
50°-60°	885.3	20.5
60°-70°	1176.9	27.2
70°-80°	885.2	20.5
80°-90°	93.0	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°	4327.0	100.0
0°-180°	4327.0	100.0

**Coefficient of Utilization**



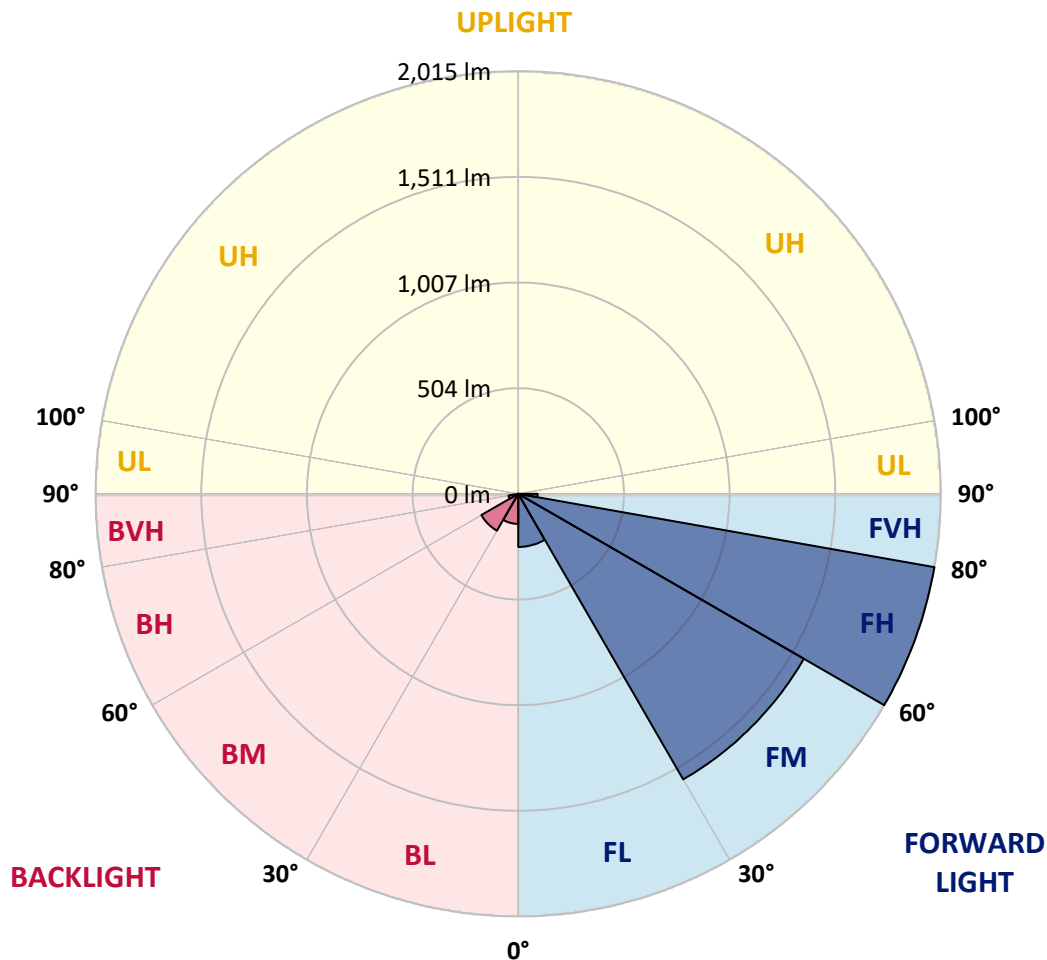
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	253.1	5.9			
FM (30°-60°)	1572.3	36.3			
FH (60°-80°)	2014.9	46.6			G2/5000
FVH (80°-90°)	92.2	2.1			G1/100
BL (0°-30°)	143.4	3.3	B1/500		
BM (30°-60°)	203.0	4.7	B0/220		
BH (60°-80°)	47.2	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°	744.5	744.5	744.5	744.5	744.5	744.5	744.5	744.5	744.5	744.5	744.5
2.5°	705.5	708.5	711.6	712.3	717.6	717.8	725.4	731.1	736.8	742.4	744.3
5°	633.1	638.0	643.7	649.4	660.6	665.1	683.7	702.8	721.0	738.3	746.8
7.5°	555.8	561.3	569.4	583.5	596.0	604.7	634.2	668.0	701.9	733.9	752.3
10°	485.3	490.4	498.9	513.9	533.2	545.0	584.6	631.6	681.4	729.9	760.6
12.5°	440.4	443.2	447.8	463.9	481.3	494.6	541.2	599.4	664.4	729.6	773.9
15°	432.2	433.0	429.2	436.4	449.9	462.9	510.1	573.4	651.5	733.0	791.3
17.5°	445.3	444.9	432.2	431.3	442.1	452.7	494.8	555.4	642.4	740.9	813.7
20°	465.2	463.7	441.7	437.7	449.1	459.0	493.8	548.6	639.0	754.0	841.0
22.5°	491.7	489.1	454.6	450.4	462.6	473.0	506.9	555.2	642.0	771.6	872.8
25°	524.5	520.7	476.8	472.2	484.7	495.0	530.4	574.0	650.9	793.0	913.0
27.5°	561.5	556.0	512.4	500.3	514.5	525.3	561.7	602.8	664.9	815.6	962.3
30°	596.5	589.3	549.9	530.0	547.3	559.4	595.6	637.1	687.3	850.5	1029.9
32.5°	631.6	623.6	583.3	559.6	575.3	588.4	630.6	684.3	729.4	903.9	1119.7
35°	712.5	704.0	654.7	615.5	615.3	622.7	679.5	748.9	785.1	978.2	1226.8
37.5°	848.6	843.8	796.8	722.4	702.5	694.3	746.2	826.0	865.2	1080.5	1347.7
40°	997.7	993.5	940.7	873.4	843.1	822.8	841.9	933.3	978.2	1205.4	1471.2
42.5°	1166.0	1145.9	1051.9	1031.8	1004.7	989.2	972.1	1065.7	1117.1	1341.4	1593.5
45°	1318.9	1285.0	1163.1	1132.6	1126.4	1130.3	1139.8	1243.5	1273.4	1502.9	1715.5
47.5°	1410.0	1383.3	1289.7	1260.5	1258.8	1284.0	1356.0	1444.5	1429.0	1643.7	1822.8
50°	1496.6	1472.4	1394.7	1401.9	1409.7	1444.1	1601.4	1651.1	1571.1	1771.4	1921.3
52.5°	1566.6	1529.8	1489.2	1529.6	1568.1	1623.4	1854.6	1836.6	1671.9	1873.0	2005.6
55°	1607.1	1590.4	1610.1	1650.7	1723.1	1812.9	2093.7	1991.0	1745.6	1965.8	2061.7
57.5°	1755.3	1722.5	1761.7	1796.8	1891.2	2016.8	2298.4	2105.9	1798.7	2023.2	2074.6
60°	1934.6	1908.2	1931.3	1989.7	2117.2	2264.7	2489.8	2199.7	1826.4	2060.0	2041.1
62.5°	2220.1	2185.1	2170.7	2236.2	2405.1	2566.3	2635.1	2264.7	1820.3	2043.7	1926.4
65°	2602.5	2566.3	2501.9	2561.2	2776.1	2889.8	2797.5	2278.5	1778.0	1911.8	1636.3
67.5°	2994.2	2967.9	2912.9	3012.8	3206.8	3243.4	2969.2	2245.1	1641.6	1550.1	1156.1
70°	3252.9	3241.7	3277.5	3498.5	3671.5	3660.9	3126.7	2065.3	1279.5	953.2	571.9
72.5°	3066.4	3120.2	3384.4	3785.2	3996.5	3910.2	3045.8	1585.9	731.3	366.7	165.4
73°	2911.8	2980.6	3336.3	3796.0	4022.2	3927.5	2977.9	1455.7	623.4	289.4	125.3
75°	2025.7	2110.2	2762.1	3535.4	3902.3	3742.0	2482.2	891.0	288.8	128.3	50.6
77.5°	983.5	1046.0	1520.9	2554.4	3034.8	2923.7	1545.3	332.0	130.4	80.2	23.3
80°	367.2	408.2	660.2	1300.1	1753.8	1799.8	679.7	125.6	86.8	64.6	11.9
82.5°	96.1	107.1	243.5	579.7	898.8	940.7	214.3	63.3	63.5	53.1	7.2
85°	30.7	35.1	76.0	260.2	423.5	371.8	55.9	30.7	46.2	39.6	4.0
87.5°	3.8	4.9	24.1	61.2	93.4	51.9	8.7	9.1	19.7	22.0	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°	744.5	744.5	744.5	744.5	744.5	744.5	744.5	744.5	744.5	744.5	744.5
2.5°	746.2	745.1	745.3	739.8	736.2	729.0	721.6	718.2	714.6	713.1	714.6
5°	750.0	748.1	742.6	725.6	707.6	684.3	662.5	646.0	625.3	619.5	625.5
7.5°	755.9	752.1	736.0	701.5	661.5	617.0	567.0	530.6	500.8	481.5	488.5
10°	764.6	757.4	725.0	666.3	594.8	516.0	445.1	389.8	350.6	334.5	333.9
12.5°	779.2	765.6	711.4	620.6	513.3	408.2	315.3	255.4	223.6	203.1	202.6
15°	795.3	775.4	694.3	565.8	418.4	292.4	203.1	157.5	137.0	130.4	129.6
17.5°	815.0	786.6	672.1	498.2	319.1	193.7	132.5	119.4	118.6	117.9	117.9
20°	839.8	799.9	643.5	420.9	226.3	129.4	112.6	113.5	113.9	113.1	113.3
22.5°	868.5	813.5	609.4	337.9	153.1	108.2	107.8	108.8	109.3	108.8	109.0
25°	902.0	829.2	567.9	250.9	110.5	102.7	103.8	105.2	106.3	106.3	106.3
27.5°	943.5	848.2	517.9	175.1	95.5	97.0	99.9	102.7	104.2	104.6	104.6
30°	997.5	871.9	458.0	120.1	86.8	89.4	94.9	100.2	102.9	103.3	103.5
32.5°	1065.7	898.6	388.5	88.7	79.4	81.3	87.2	96.1	101.4	102.3	102.3
35°	1143.8	929.5	313.8	77.3	74.1	74.7	79.4	89.6	98.9	101.2	101.4
37.5°	1229.3	960.0	238.6	72.2	69.7	69.7	73.0	81.7	92.7	99.9	100.8
40°	1309.2	978.4	167.3	68.2	65.6	65.6	68.6	75.0	85.3	96.1	98.5
42.5°	1382.9	984.8	116.5	64.4	61.8	62.5	65.0	70.1	77.9	88.7	90.8
45°	1458.7	983.7	84.9	59.9	58.0	59.9	61.8	65.6	71.4	77.5	77.9
47.5°	1515.8	974.8	67.3	55.7	54.4	57.0	58.7	61.2	64.4	63.9	63.9
50°	1569.4	953.2	54.2	50.0	50.8	53.8	54.6	55.5	55.7	51.7	51.2
52.5°	1610.1	919.6	43.4	43.8	47.2	50.2	49.3	48.1	45.9	41.1	40.2
55°	1623.6	854.8	34.1	36.2	41.9	45.7	42.6	39.8	35.8	31.8	30.9
57.5°	1599.0	771.1	27.7	28.2	35.4	38.5	34.9	31.8	27.3	23.9	23.3
60°	1547.0	678.2	22.9	21.2	27.3	30.1	27.7	24.6	20.5	18.0	17.8
62.5°	1443.6	579.1	18.8	16.5	20.8	23.1	21.6	19.3	15.9	14.2	14.0
65°	1226.4	463.3	15.2	13.3	16.1	18.0	16.7	15.0	12.5	11.2	11.0
67.5°	856.1	313.2	12.5	11.0	12.7	14.2	13.1	12.3	10.0	9.7	10.0
70°	412.9	151.0	10.4	8.9	10.0	11.0	10.6	10.0	9.5	11.0	12.7
72.5°	118.4	50.6	8.3	7.4	8.0	8.7	9.1	8.9	10.4	13.3	15.5
73°	91.0	40.9	7.8	7.0	7.6	8.5	8.9	8.7	10.6	13.6	15.5
75°	39.0	19.7	5.9	5.7	6.4	7.4	7.8	7.8	10.6	13.8	14.8
77.5°	17.6	10.6	3.8	4.4	5.5	5.9	6.6	6.6	8.5	10.6	10.6
80°	10.0	5.7	3.0	3.4	4.0	4.0	4.0	3.6	3.8	4.2	4.7
82.5°	6.4	3.8	2.3	2.8	2.5	2.1	1.7	1.7	1.5	1.7	2.1
85°	3.6	2.1	2.1	1.7	1.1	0.8	1.1	0.8	0.2	0.0	0.2
87.5°	2.1	1.3	0.6	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)