

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: P387122

Luminaire Tested: GAW-SA2D-760-U-T2-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P387122  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2D-760-U-T2-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11519 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

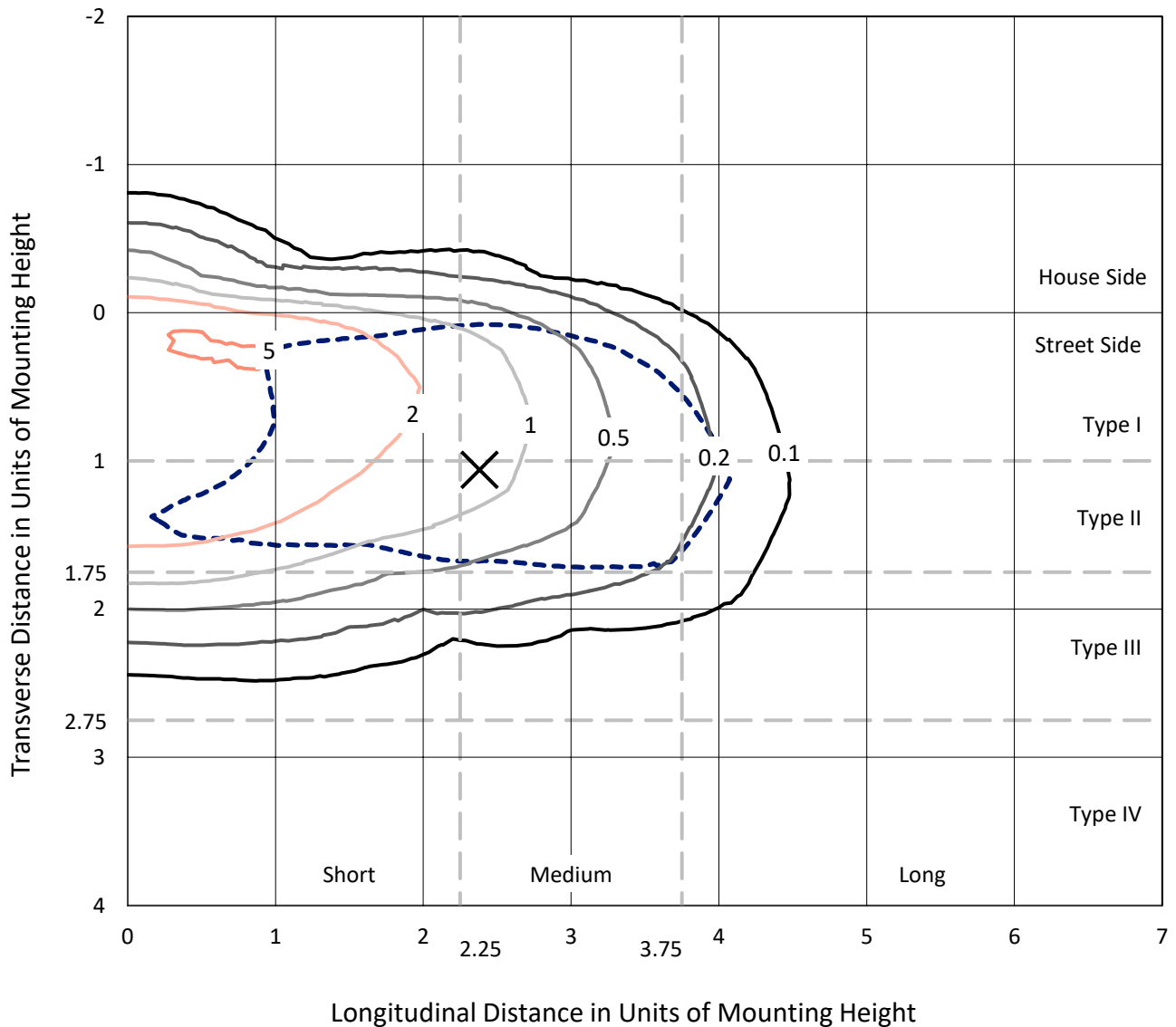
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

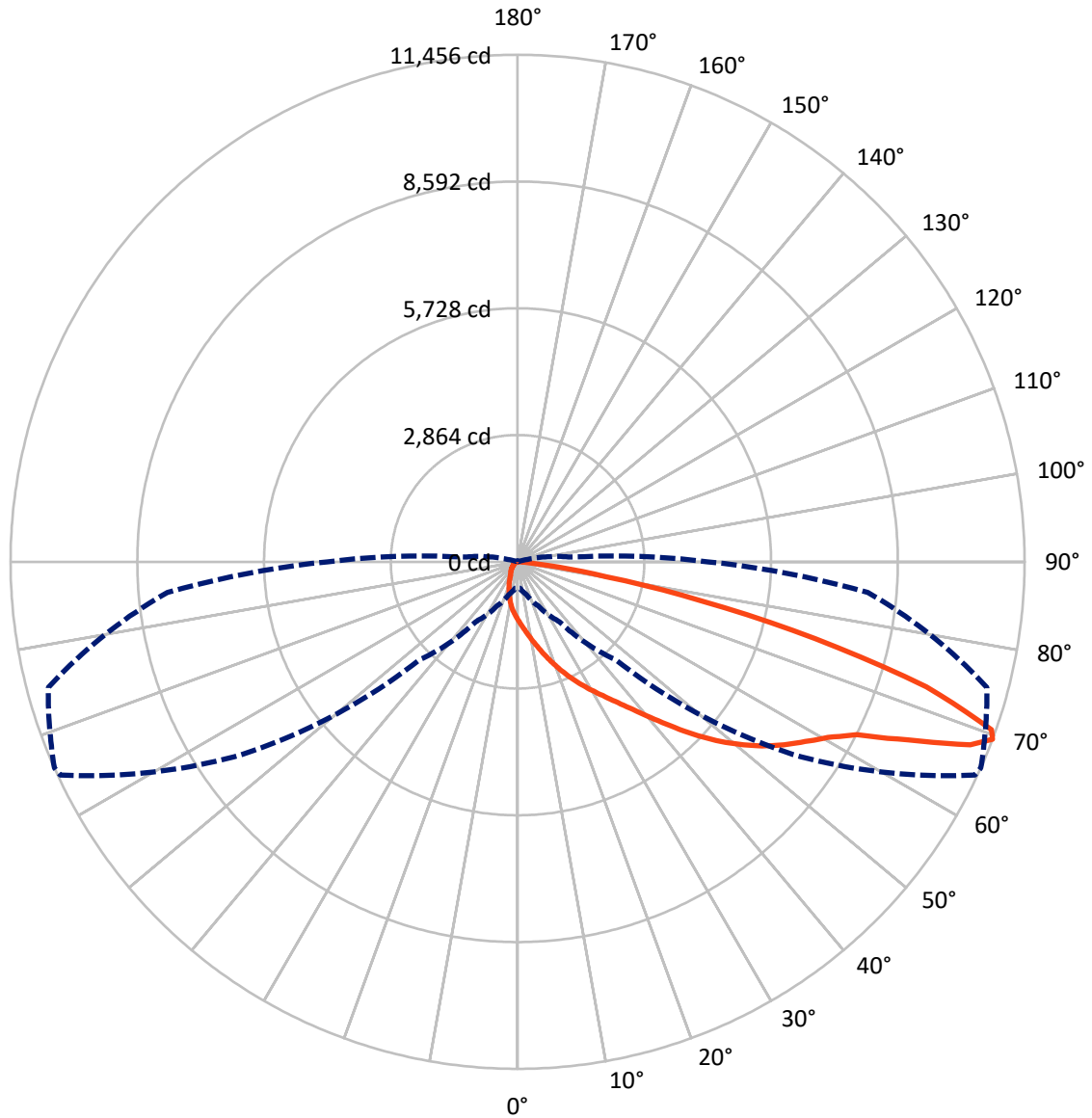
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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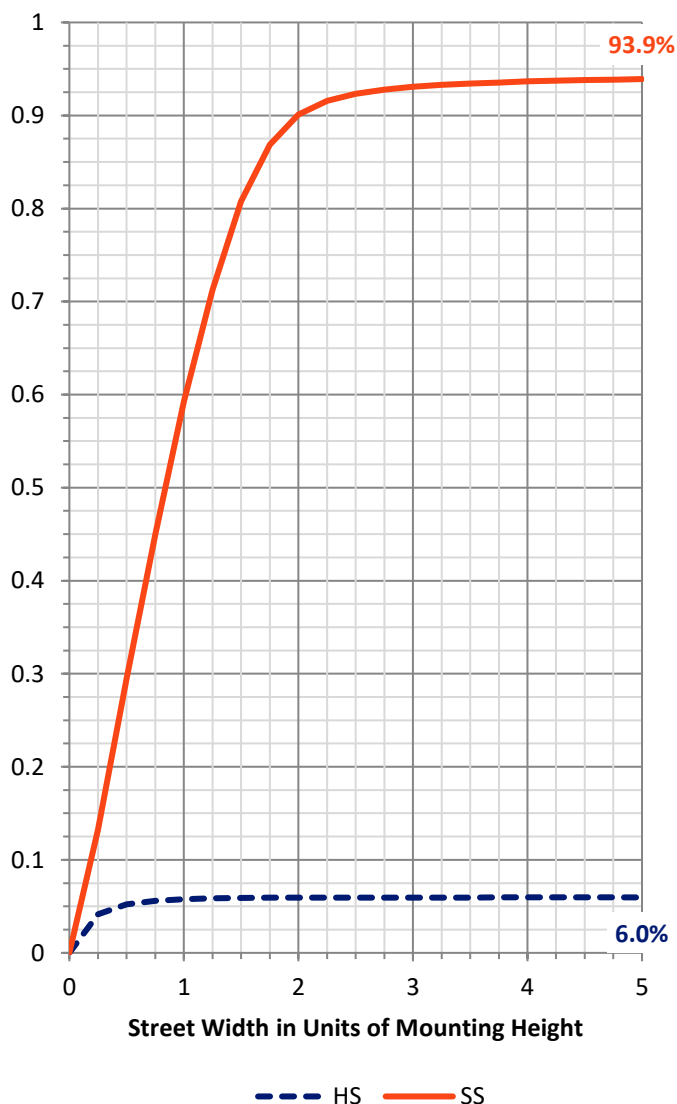
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	691.0	0.0	691.0
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	10828.0	0.0	10828.0
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	11519.0	0.0	11519.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.7	1.1
10°-20°	377.1	3.3
20°-30°	656.7	5.7
30°-40°	1152.2	10.0
40°-50°	1928.6	16.7
50°-60°	2834.9	24.6
60°-70°	2910.7	25.3
70°-80°	1436.9	12.5
80°-90°	95.0	0.8
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°	11519.0	100.0
0°-180°	11519.0	100.0

**Coefficient of Utilization**

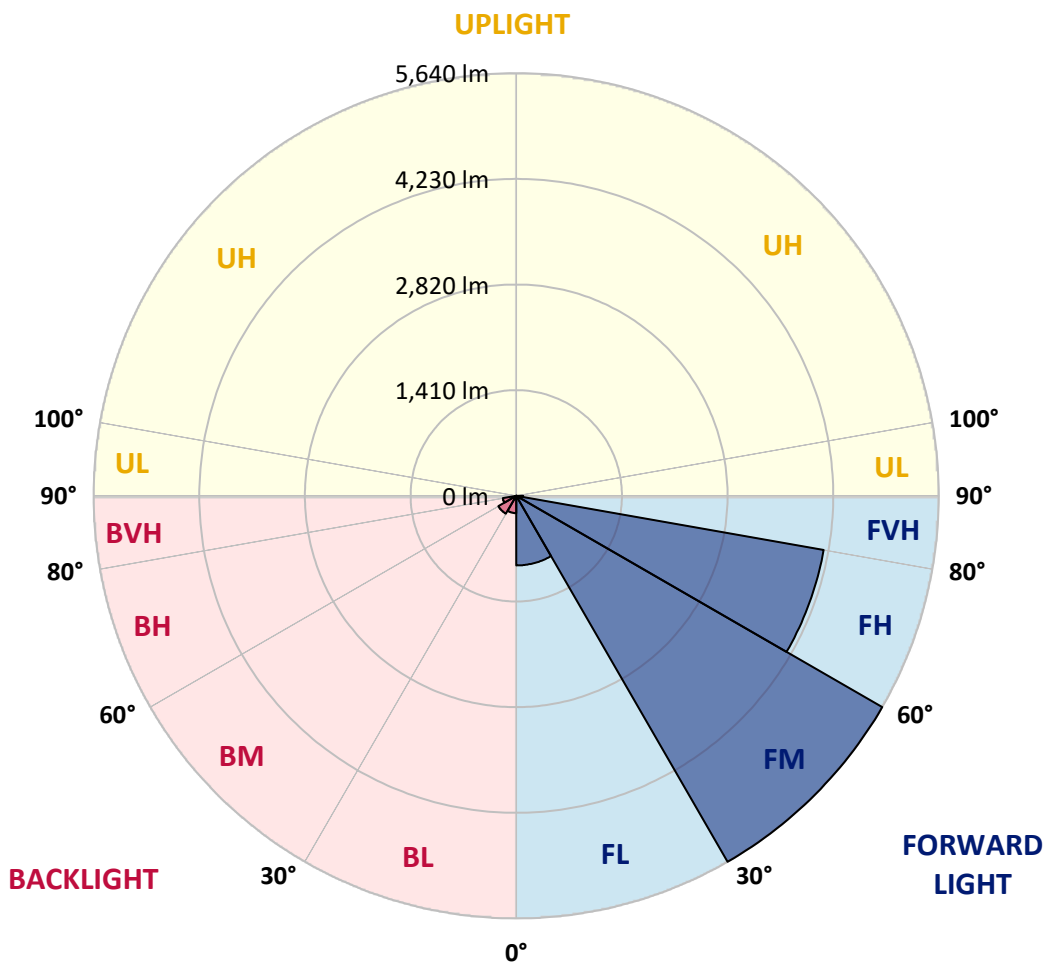


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	929.5	8.1			
FM (30°-60°)	5640.3	49.0			
FH (60°-80°)	4165.6	36.2			G2/5000
FVH (80°-90°)	92.7	0.8			G1/100
BL (0°-30°)	231.1	2.0	B1/500		
BM (30°-60°)	275.5	2.4	B1/1000		
BH (60°-80°)	182.1	1.6	B1/500		G1/500
BVH (80°-90°)	2.3	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9
2.5°	1542.9	1536.3	1533.6	1521.5	1500.7	1484.9	1454.2	1418.7	1412.1	1377.6	1335.5
5°	1743.1	1737.7	1733.8	1716.9	1695.5	1655.6	1599.8	1533.6	1521.0	1455.3	1371.1
7.5°	1882.6	1892.5	1892.5	1881.5	1854.7	1824.6	1756.3	1666.0	1650.1	1549.4	1418.7
10°	1964.2	1976.2	1985.5	1994.8	1991.0	1978.9	1914.4	1812.6	1793.5	1660.0	1473.9
12.5°	1971.8	1983.9	2010.1	2049.0	2086.7	2114.1	2073.6	1975.1	1953.2	1788.0	1539.6
15°	1929.1	1941.7	1982.2	2057.7	2149.1	2229.0	2242.1	2155.1	2132.7	1940.6	1621.7
17.5°	1854.7	1862.9	1920.9	2025.4	2168.8	2315.4	2394.7	2348.2	2327.4	2115.2	1713.0
20°	1799.5	1805.5	1856.4	1968.5	2156.7	2369.6	2539.2	2553.4	2531.5	2302.3	1812.1
22.5°	1894.1	1905.1	1906.7	1959.8	2123.9	2396.4	2666.1	2755.3	2738.9	2500.9	1909.4
25°	2152.9	2165.5	2123.9	2091.1	2151.8	2408.4	2775.0	2962.1	2949.0	2714.8	2007.4
27.5°	2494.9	2508.0	2454.4	2356.4	2297.9	2453.8	2871.8	3172.2	3171.7	2941.3	2113.0
30°	2830.8	2843.9	2789.2	2691.3	2556.7	2582.4	2955.5	3392.1	3395.4	3174.9	2225.1
32.5°	3183.1	3199.6	3143.2	3017.4	2876.8	2804.5	3073.2	3613.2	3631.8	3445.8	2351.5
35°	3583.6	3585.8	3506.5	3374.6	3212.7	3101.6	3261.9	3861.0	3905.3	3781.1	2511.8
37.5°	3976.5	3992.3	3927.2	3719.3	3570.5	3444.7	3542.6	4170.7	4233.6	4190.9	2721.4
40°	4267.5	4300.9	4291.6	4067.3	3926.1	3836.4	3891.1	4538.9	4618.8	4668.0	2985.6
42.5°	4450.3	4475.4	4518.1	4383.0	4255.0	4269.7	4302.6	4967.8	5066.3	5211.9	3289.3
45°	4659.8	4671.9	4707.4	4647.8	4561.3	4710.2	4739.2	5451.0	5554.4	5796.7	3626.3
47.5°	4915.9	4944.3	4954.2	4899.5	4860.1	5099.7	5159.9	5890.3	6035.3	6423.2	3983.0
50°	5242.0	5249.6	5266.6	5231.0	5191.6	5434.5	5537.4	6351.5	6483.4	7051.8	4334.8
52.5°	5560.9	5588.3	5647.4	5624.9	5609.1	5719.6	5873.9	6767.3	6914.5	7576.0	4686.1
55°	5652.8	5676.4	5880.4	6020.0	6149.1	6070.8	6195.6	7139.9	7299.1	8044.3	5024.2
57.5°	5285.7	5333.3	5686.8	6050.1	6585.7	6616.9	6637.7	7522.4	7665.1	8403.2	5376.0
60°	4357.8	4367.1	4947.1	5570.2	6513.5	7093.4	7283.3	7933.2	8053.1	8737.5	5797.3
62.5°	2771.7	2866.4	3502.7	4382.4	5749.7	7024.5	8064.0	8554.8	8598.5	9138.5	6401.3
65°	1320.2	1381.5	1840.0	2707.7	4164.7	6142.0	8602.9	9679.1	9698.8	9933.5	7208.3
67.5°	731.0	760.5	978.8	1457.5	2434.7	4343.6	8385.2	11010.8	11029.4	10745.4	7916.3
69°	571.7	596.9	768.7	1098.6	1650.7	3121.9	7588.0	11400.9	11456.1	10978.0	7941.4
70°	485.3	509.9	662.0	927.9	1327.3	2412.3	6754.2	11304.0	11362.6	10956.1	7753.8
72.5°	297.1	311.3	441.0	653.3	889.6	1213.5	4165.2	9559.8	9658.9	10050.0	6663.9
75°	200.2	207.9	275.7	450.8	636.3	624.8	2163.9	6738.3	6952.8	7817.8	4921.9
77.5°	143.3	150.5	184.9	291.6	445.9	412.5	979.9	4187.7	4233.6	4688.8	2684.2
80°	81.5	88.1	130.8	173.4	302.6	275.2	389.5	2000.3	2023.2	2010.7	896.2
82.5°	42.7	48.1	71.7	114.3	194.2	180.0	161.9	669.7	673.0	559.7	196.4
85°	8.2	9.8	35.6	78.2	100.1	78.2	66.2	157.0	160.3	141.7	48.7
87.5°	0.0	0.5	14.2	17.5	19.7	20.2	21.3	30.6	32.8	44.3	13.1
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°	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9
2.5°	1316.9	1297.2	1259.5	1215.7	1181.8	1148.4	1122.1	1094.8	1084.9	1080.0	1079.5
5°	1330.0	1288.5	1208.6	1126.5	1059.2	995.8	950.3	907.1	886.9	877.6	873.8
7.5°	1351.9	1285.2	1156.6	1031.3	934.5	855.1	792.2	745.2	721.7	711.8	708.0
10°	1377.6	1280.8	1095.9	930.7	807.0	724.9	662.6	616.1	590.3	579.4	573.9
12.5°	1407.7	1273.1	1025.8	828.9	698.1	616.1	540.6	483.1	453.6	441.0	435.0
15°	1444.9	1265.5	952.5	733.1	602.4	502.3	419.6	380.8	374.8	372.6	373.1
17.5°	1481.6	1253.5	872.7	638.5	501.7	392.3	350.2	348.0	349.1	349.1	349.1
20°	1514.4	1226.1	785.7	557.5	406.0	331.0	322.3	318.4	315.7	313.5	310.8
22.5°	1540.1	1189.4	702.0	477.1	331.6	303.1	289.4	277.4	267.5	261.0	257.7
25°	1557.7	1140.7	625.4	399.9	298.2	275.7	251.1	230.9	215.6	206.3	202.4
27.5°	1570.8	1088.2	557.0	334.8	275.2	244.0	211.7	187.7	171.8	163.6	160.3
30°	1580.1	1028.6	496.8	294.4	249.5	210.6	176.2	152.6	141.2	136.8	134.6
32.5°	1588.8	962.4	439.9	275.2	225.4	180.0	147.7	129.7	122.6	117.1	115.4
35°	1610.7	901.1	385.7	255.0	200.8	153.7	126.9	113.8	106.7	103.4	102.3
37.5°	1662.7	855.7	333.7	234.2	176.2	133.0	111.1	101.8	95.2	91.9	90.8
40°	1746.4	832.7	290.0	211.7	152.1	117.1	100.7	91.9	84.8	79.9	78.8
42.5°	1869.5	836.0	259.3	189.3	133.0	104.5	90.8	80.4	72.8	68.4	67.3
45°	2018.9	860.1	238.0	167.4	117.1	94.7	79.9	68.9	61.8	58.0	56.9
47.5°	2180.8	898.9	220.5	147.7	104.5	85.4	68.9	57.4	51.4	48.1	47.6
50°	2351.5	936.7	202.4	128.6	93.6	76.0	58.0	47.6	42.7	39.9	38.8
52.5°	2524.4	980.4	186.0	111.1	84.3	65.1	48.1	38.8	35.0	32.8	31.7
55°	2710.4	1013.3	170.2	97.4	75.0	55.3	39.9	32.3	29.0	26.3	25.7
57.5°	2929.3	1064.1	153.7	84.3	64.0	46.0	32.8	25.7	23.0	20.2	19.7
60°	3224.7	1123.8	136.2	74.4	52.5	37.8	26.8	20.8	17.5	15.3	14.8
62.5°	3614.3	1190.0	114.3	65.1	42.7	30.6	21.3	16.4	12.6	9.8	9.8
65°	4108.3	1297.8	93.6	54.7	35.0	25.2	16.4	12.0	7.1	4.4	4.4
67.5°	4396.7	1316.4	75.5	44.9	28.5	21.3	13.7	8.2	2.2	0.5	0.0
69°	4304.2	1208.6	64.0	38.3	24.6	20.2	12.6	6.0	1.1	0.0	0.0
70°	4130.2	1105.2	56.4	33.9	22.4	19.1	12.0	4.4	1.1	0.0	0.0
72.5°	3412.9	786.8	42.7	25.2	16.4	17.0	10.9	2.7	1.1	0.0	0.0
75°	2486.1	478.2	30.6	17.5	10.4	12.6	7.7	1.1	0.5	0.0	0.0
77.5°	1383.1	225.4	19.1	9.8	6.6	7.7	3.8	0.0	0.0	0.0	0.0
80°	449.2	61.3	8.8	5.5	3.8	4.4	1.6	0.0	0.0	0.0	0.0
82.5°	83.2	17.5	4.9	2.7	1.1	1.1	0.0	0.0	0.0	0.0	0.0
85°	18.1	7.1	2.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	2.2	0.5	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)