

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: P386062

Luminaire Tested: GAW-SA1C-830-U-T3-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386062  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA1C-830-U-T3-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4375 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

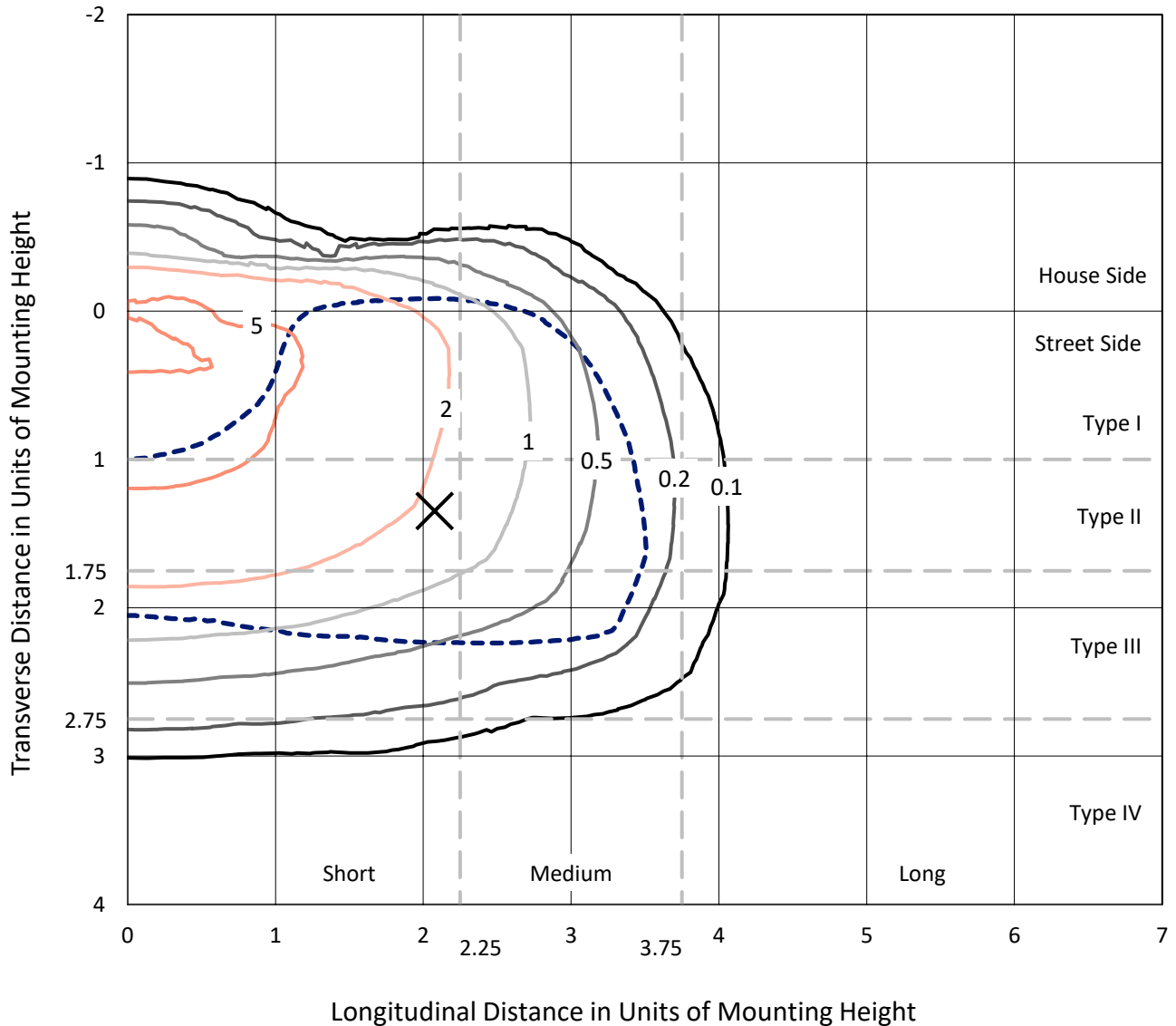
Input Watts (W): 58  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

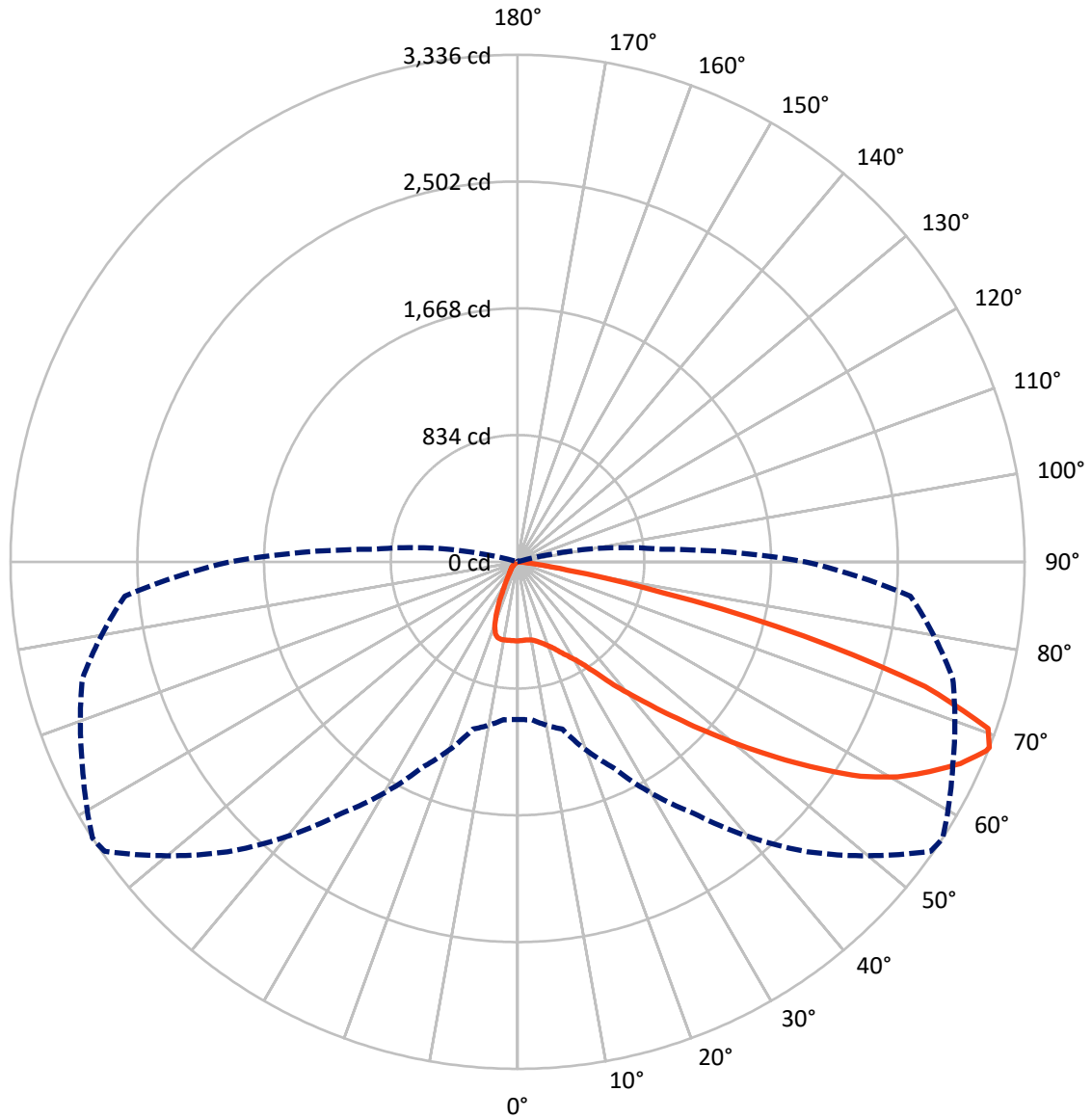
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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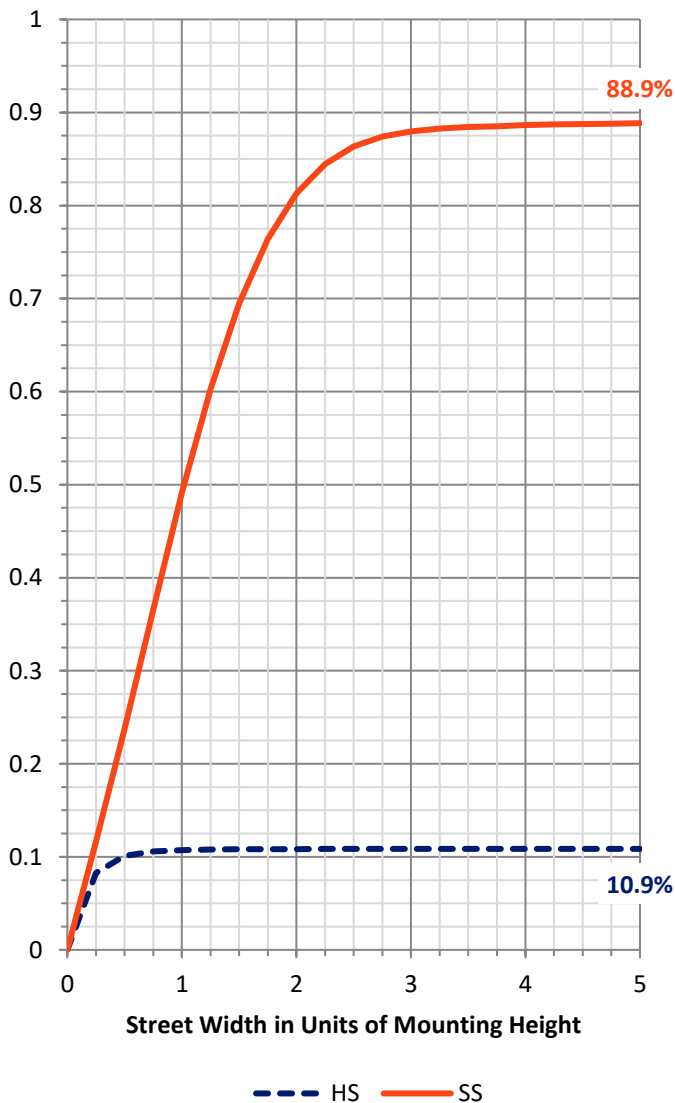
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	479.7	0.0	479.7
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	3895.3	0.0	3895.3
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	4375.0	0.0	4375.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.7	1.1
10°-20°	134.8	3.1
20°-30°	232.6	5.3
30°-40°	401.4	9.2
40°-50°	686.6	15.7
50°-60°	1098.5	25.1
60°-70°	1269.2	29.0
70°-80°	485.0	11.1
80°-90°	18.2	0.4
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°	4375.0	100.0
0°-180°	4375.0	100.0

**Coefficient of Utilization**

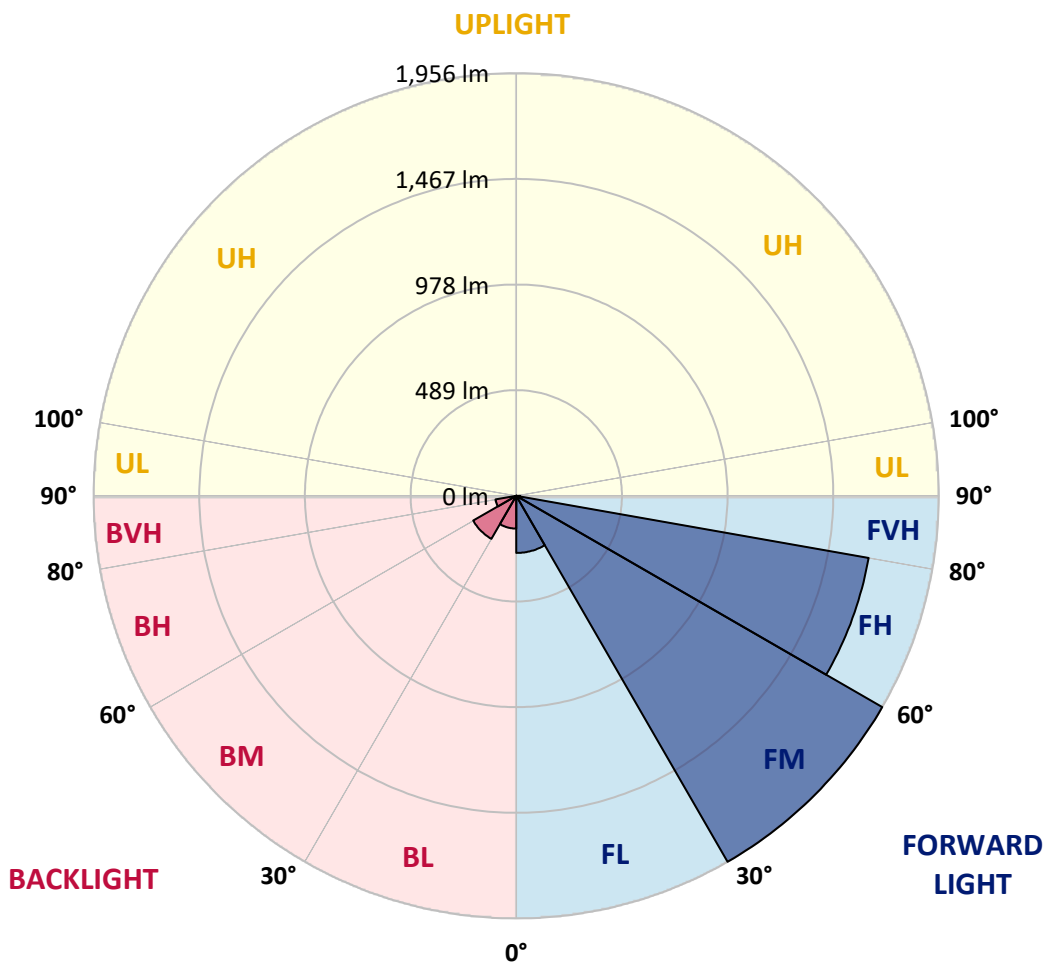


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	264.4	6.0			
FM (30°-60°)	1956.5	44.7			
FH (60°-80°)	1656.5	37.9			G1/1800
FVH (80°-90°)	17.8	0.4			G1/100
BL (0°-30°)	151.6	3.5	B1/500		
BM (30°-60°)	230.1	5.3	B1/1000		
BH (60°-80°)	97.7	2.2	B0/110		G0/110
BVH (80°-90°)	0.3	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-G1**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	519.9	519.9	519.9	519.9	519.9	519.9	519.9	519.9	519.9	519.9	519.9
2.5°	507.7	509.9	511.6	512.6	513.9	516.6	517.4	518.6	519.2	519.2	520.7
5°	487.6	490.1	493.6	496.5	502.3	509.7	515.1	517.2	520.9	524.2	526.1
7.5°	469.0	471.9	476.0	482.8	492.8	504.8	515.9	518.8	526.1	533.1	536.6
10°	457.0	459.3	464.6	474.4	487.4	504.1	519.9	523.4	535.8	547.6	554.2
12.5°	452.8	454.9	460.5	471.5	487.6	507.2	529.0	534.1	552.3	569.5	578.8
15°	458.8	459.3	465.3	475.6	491.5	514.9	544.1	550.3	573.2	595.6	607.2
17.5°	482.0	480.1	483.2	487.8	500.4	525.0	560.0	569.3	599.9	626.2	637.2
20°	539.9	539.9	532.9	520.5	520.7	540.8	581.5	592.1	629.5	659.9	669.8
22.5°	639.0	637.2	623.1	592.7	564.8	567.9	607.8	621.4	665.1	697.6	700.9
25°	758.2	755.9	734.2	691.4	643.0	611.7	643.4	659.1	707.5	736.3	729.4
27.5°	884.4	882.5	861.0	807.8	738.9	681.6	685.8	700.7	750.7	779.1	757.4
30°	1006.6	1007.3	985.9	931.3	853.3	770.8	739.6	748.3	792.7	821.5	790.5
32.5°	1122.9	1123.7	1105.3	1044.3	971.5	874.4	814.0	811.8	841.5	869.9	834.3
35°	1226.5	1228.6	1216.0	1168.6	1091.4	989.9	910.6	905.3	910.9	942.9	901.5
37.5°	1326.5	1327.7	1318.2	1278.3	1213.7	1116.7	1032.7	1025.0	1013.0	1037.7	990.3
40°	1435.9	1432.8	1421.8	1385.6	1330.2	1256.7	1163.9	1150.6	1129.7	1151.6	1107.0
42.5°	1537.7	1534.2	1536.0	1495.1	1448.3	1400.7	1316.7	1294.0	1281.8	1307.0	1250.1
45°	1664.9	1663.0	1669.2	1633.7	1595.8	1561.3	1491.9	1467.1	1461.7	1491.3	1423.3
47.5°	1790.5	1795.0	1814.3	1799.2	1783.8	1753.4	1677.5	1666.3	1669.7	1705.4	1605.9
50°	1895.1	1900.5	1953.3	1970.6	1992.8	1975.0	1898.9	1892.0	1905.1	1937.3	1802.5
52.5°	1970.9	1981.8	2047.4	2127.5	2208.1	2220.1	2144.2	2138.0	2155.6	2160.6	1954.3
55°	2023.4	2033.1	2107.4	2253.9	2418.1	2469.8	2422.7	2398.7	2395.4	2346.3	2114.0
57.5°	2032.7	2031.7	2138.4	2335.6	2582.8	2716.2	2686.4	2662.8	2595.0	2518.0	2297.1
60°	1980.2	1986.2	2110.1	2363.9	2686.2	2902.6	2904.9	2874.3	2768.5	2685.0	2474.6
62.5°	1818.4	1842.8	1968.0	2289.6	2685.0	2977.7	3065.0	3041.6	2915.2	2821.7	2654.6
65°	1556.1	1564.8	1684.1	2035.2	2503.5	2946.2	3209.2	3200.5	3047.4	2954.5	2747.0
67.5°	1136.3	1117.5	1242.9	1602.6	2119.6	2763.0	3312.6	3323.6	3149.4	2981.8	2648.6
68°	1037.0	1042.6	1140.3	1495.7	2019.1	2698.2	3319.4	3336.2	3159.5	2964.0	2594.8
70°	618.1	628.9	716.0	1029.8	1536.0	2331.8	3245.8	3284.1	3099.1	2780.5	2244.3
72.5°	157.8	170.7	253.0	460.9	877.3	1643.0	2740.0	2804.7	2690.8	2255.7	1515.1
75°	65.0	68.3	90.4	151.8	326.9	740.2	1806.0	1944.6	1865.4	1350.5	684.7
77.5°	44.9	47.2	58.1	84.2	141.5	250.9	885.4	985.5	887.9	460.9	149.4
80°	32.3	34.1	41.6	56.1	81.3	89.6	288.6	333.7	265.0	101.2	37.0
82.5°	19.2	20.7	31.0	39.9	49.4	42.8	71.8	81.5	76.7	50.3	16.5
85°	9.5	11.2	20.9	28.5	26.7	18.0	21.9	24.4	30.2	30.6	8.9
87.5°	0.6	1.2	12.2	17.2	7.4	4.1	6.4	7.9	10.8	15.1	3.7
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°	519.9	519.9	519.9	519.9	519.9	519.9	519.9	519.9	519.9	519.9	519.9
2.5°	521.3	521.5	520.1	519.5	519.9	517.4	516.3	516.8	516.8	517.4	516.3
5°	526.5	526.5	524.0	520.7	518.8	514.1	511.0	510.1	509.5	509.1	508.3
7.5°	537.7	536.4	532.1	524.8	518.6	508.3	500.4	496.3	494.2	493.4	492.8
10°	555.7	553.4	546.1	532.7	518.4	500.0	482.8	470.6	460.5	456.4	453.9
12.5°	579.9	576.5	564.3	542.0	517.0	483.0	445.8	410.0	376.7	363.1	356.2
15°	607.8	603.0	583.8	549.9	508.5	444.8	363.9	301.2	255.1	237.7	230.2
17.5°	636.1	629.9	600.8	554.8	483.0	365.5	255.3	192.8	162.0	153.7	150.8
20°	664.7	655.6	615.4	551.1	425.5	263.6	168.4	140.9	132.0	129.5	128.7
22.5°	691.8	677.7	628.7	536.6	337.0	176.9	133.2	124.5	121.6	120.2	119.8
25°	715.4	695.7	640.3	491.9	238.5	133.6	120.0	117.1	113.4	110.7	110.9
27.5°	737.5	713.7	647.3	418.3	159.1	114.2	111.1	107.2	100.3	96.4	96.4
30°	764.2	737.7	652.5	321.9	117.1	101.0	98.5	92.5	83.2	78.0	78.0
32.5°	804.3	774.1	649.2	225.9	97.0	88.7	83.0	74.7	64.5	59.6	59.4
35°	865.8	830.4	625.6	148.1	85.6	77.2	67.9	57.7	48.8	44.7	44.5
37.5°	948.5	905.7	572.6	105.9	76.7	66.4	55.2	44.1	37.4	34.8	34.5
40°	1055.9	993.2	496.9	85.9	68.5	56.1	42.6	34.1	29.6	27.5	27.7
42.5°	1184.7	1086.9	406.1	74.1	60.4	46.1	33.3	26.9	24.0	22.5	22.1
45°	1327.9	1179.4	310.9	66.0	52.3	37.2	26.1	21.3	19.0	18.2	18.2
47.5°	1485.3	1269.4	227.6	59.0	43.6	28.8	20.9	17.4	15.5	14.9	14.7
50°	1628.3	1331.8	164.0	51.5	35.8	22.8	17.0	14.5	13.2	12.4	12.4
52.5°	1747.4	1351.5	120.8	43.4	29.0	18.2	14.1	12.4	11.2	10.6	10.6
55°	1852.3	1343.4	89.8	35.8	23.4	14.9	12.0	10.6	9.5	8.9	8.9
57.5°	1952.9	1317.4	67.0	29.2	18.8	12.0	10.1	8.9	7.9	7.4	7.4
60°	2035.0	1273.9	49.9	23.6	15.1	9.7	8.5	7.2	6.4	5.8	5.8
62.5°	2101.6	1225.9	36.6	19.4	12.0	7.7	6.6	6.0	4.8	4.1	4.1
65°	2102.0	1146.3	27.5	16.1	9.3	6.0	5.0	4.8	3.1	2.5	2.3
67.5°	1950.0	988.2	21.1	13.9	7.2	4.6	3.7	3.9	1.7	1.0	0.8
68°	1894.7	948.1	19.9	13.7	6.8	4.3	3.5	3.9	1.4	0.8	0.6
70°	1597.5	754.2	15.9	13.2	6.0	3.3	2.9	3.9	1.2	0.6	0.4
72.5°	1021.7	437.7	11.8	10.6	4.6	2.5	1.9	3.5	1.2	0.4	0.2
75°	434.8	135.7	8.1	7.4	2.7	1.9	1.2	2.3	0.8	0.2	0.0
77.5°	91.6	30.6	4.8	4.6	1.9	1.2	0.8	0.6	0.2	0.0	0.0
80°	23.6	8.9	2.5	2.3	1.0	0.6	0.4	0.0	0.0	0.0	0.0
82.5°	7.4	3.5	1.4	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.7	2.1	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	0.6	0.2	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)