

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: P386180

Luminaire Tested: GAW-SA1D-735-U-T4W-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386180  
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  
Product Line: STREETWORKS  
Catalog Number: GAW-SA1D-735-U-T4W-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA 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: 5642 lumens  
Efficiency: N/A  
Efficacy: 84.2 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

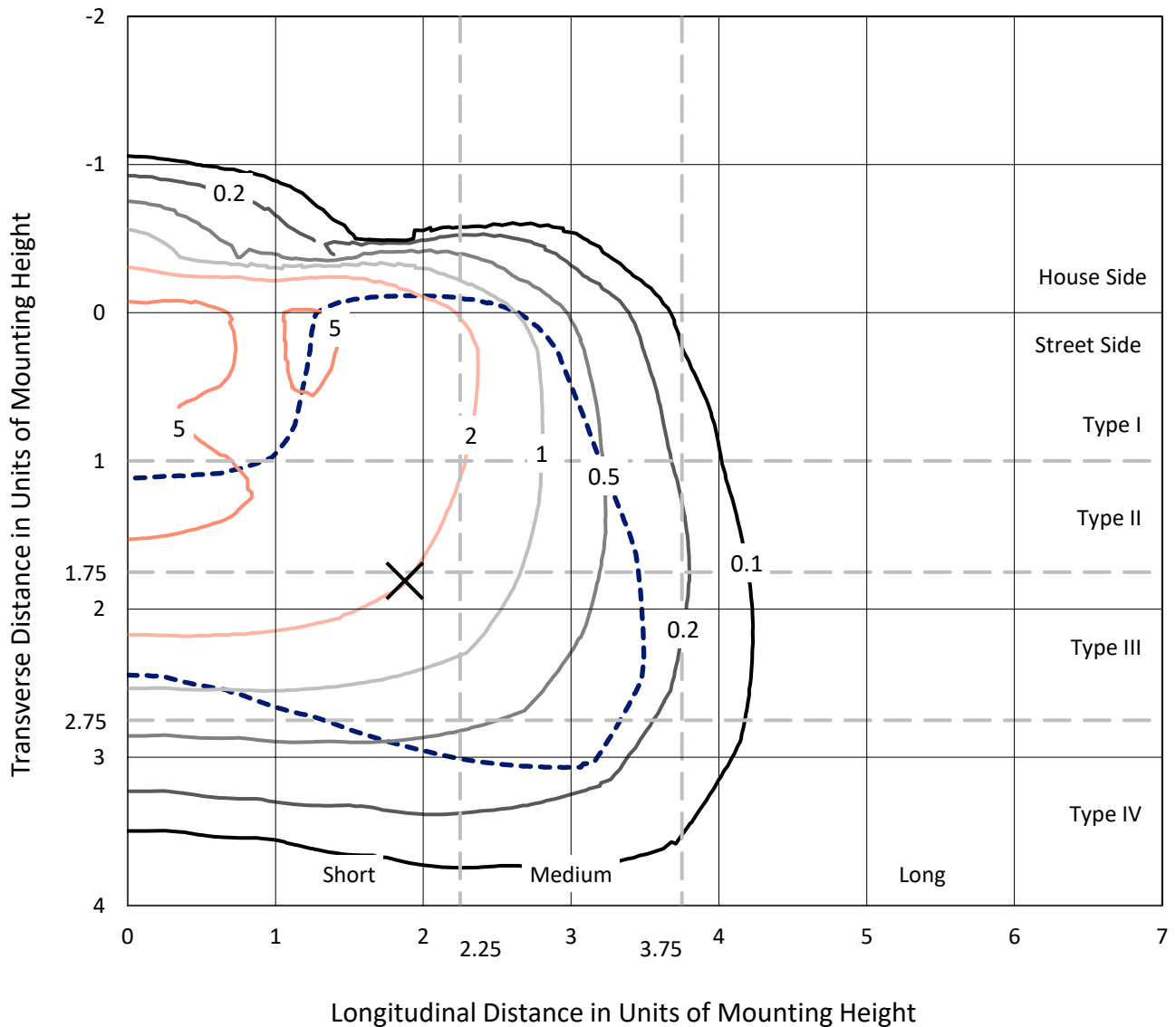
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

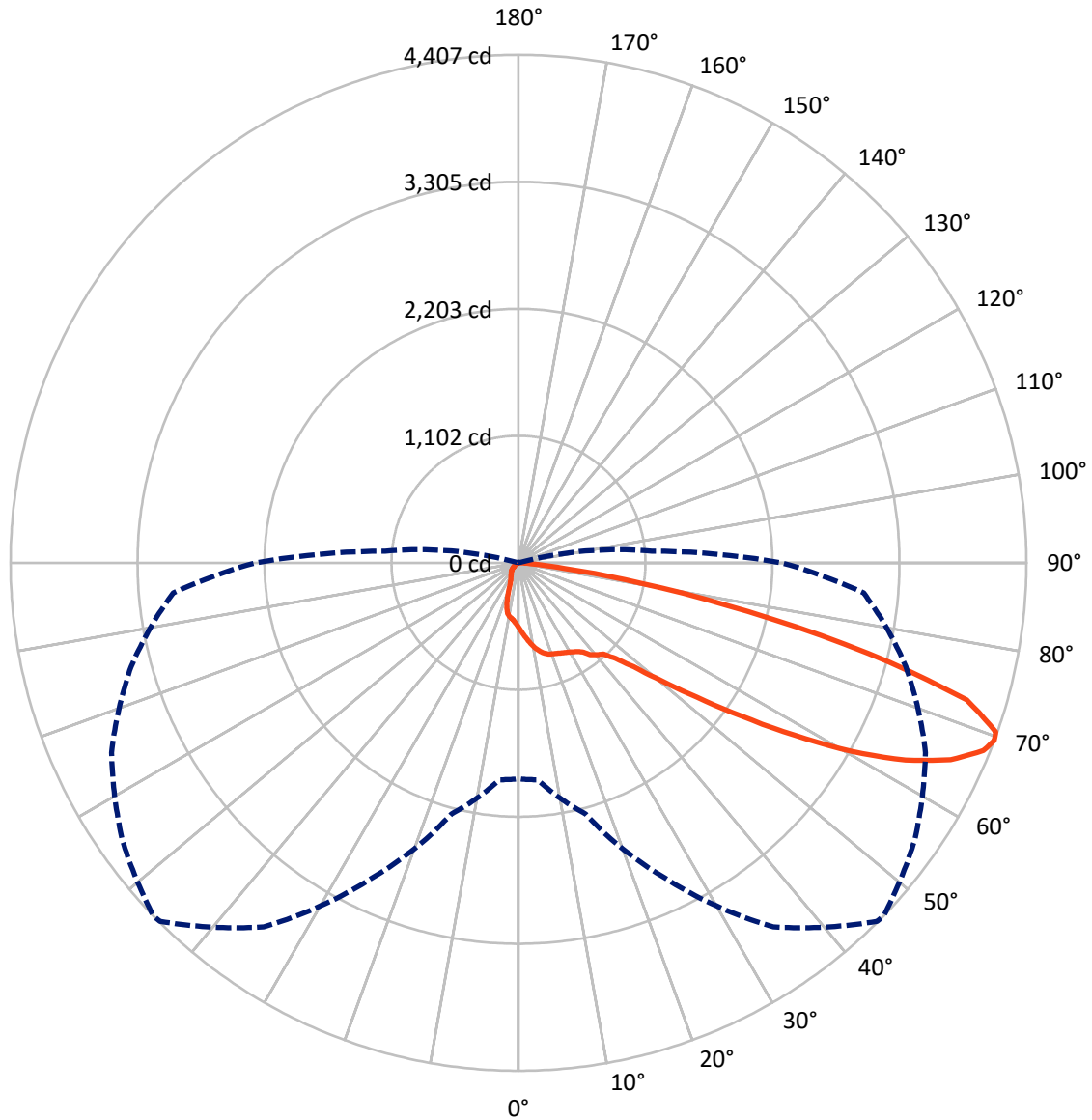
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.2 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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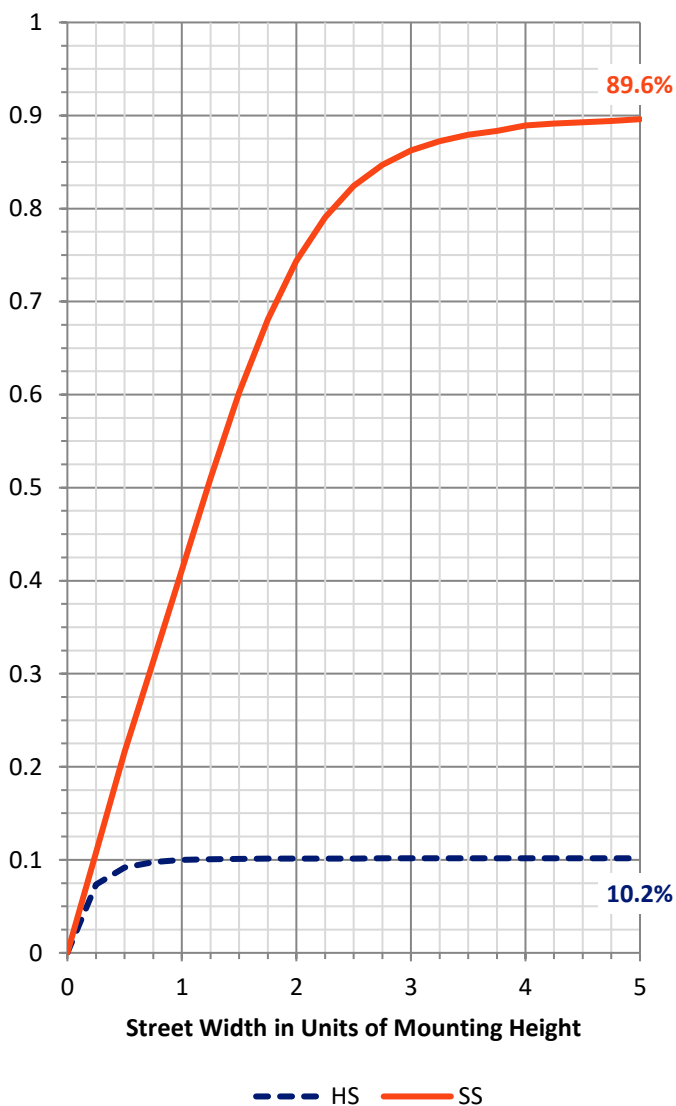
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	579.0	0.0	579.0
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	5063.0	0.0	5063.0
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	5642.0	0.0	5642.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.3	1.0
10°-20°	170.7	3.0
20°-30°	268.5	4.8
30°-40°	385.0	6.8
40°-50°	665.4	11.8
50°-60°	1314.5	23.3
60°-70°	1837.1	32.6
70°-80°	887.5	15.7
80°-90°	57.0	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°	5642.0	100.0
0°-180°	5642.0	100.0

**Coefficient of Utilization**

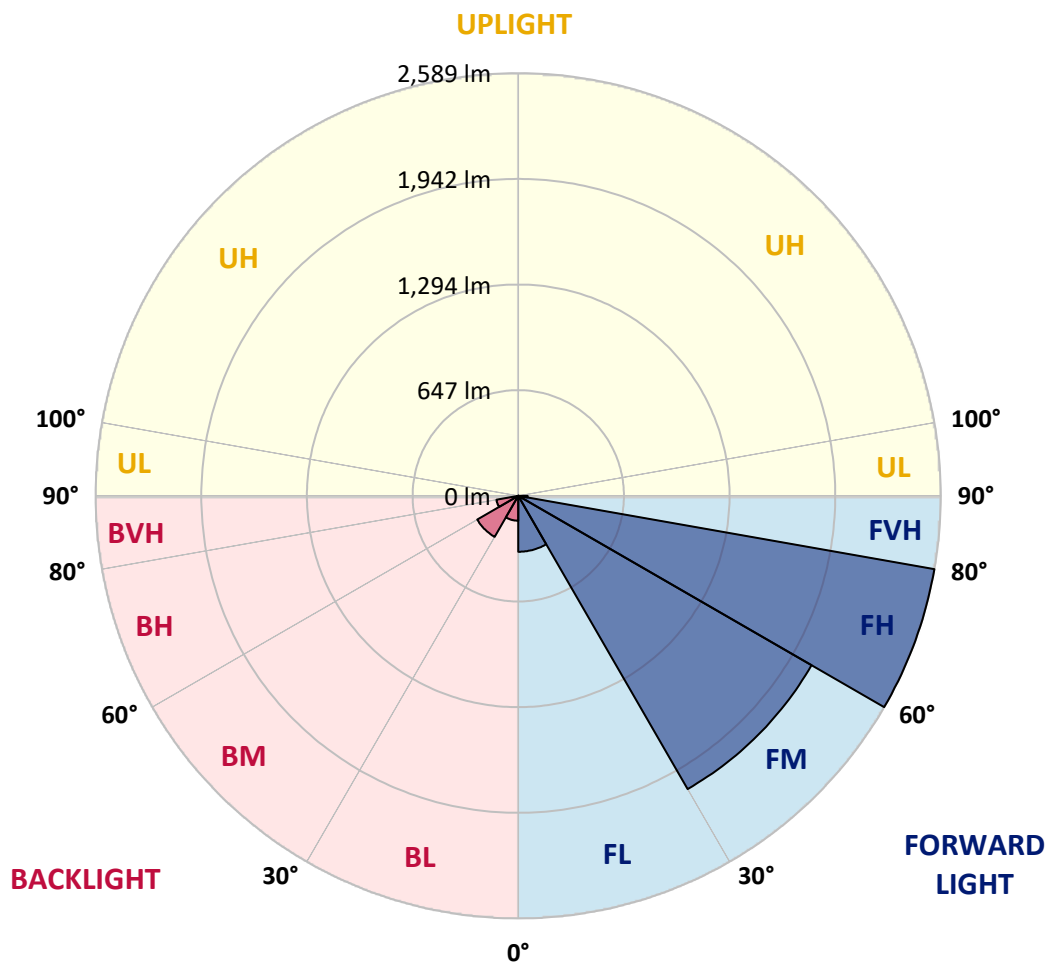


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	342.8	6.1			
FM (30°-60°)	2074.7	36.8			
FH (60°-80°)	2588.9	45.9			G2/5000
FVH (80°-90°)	56.6	1.0			G1/100
BL (0°-30°)	152.6	2.7	B1/500		
BM (30°-60°)	290.2	5.1	B1/1000		
BH (60°-80°)	135.8	2.4	B1/500		G1/500
BVH (80°-90°)	0.5	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°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3
2.5°	628.0	627.2	623.5	621.9	613.0	607.6	605.5	598.9	589.4	579.9	569.3
5°	699.4	699.2	692.2	685.7	668.8	652.9	650.0	634.7	613.1	593.0	572.9
7.5°	772.5	769.0	762.1	749.4	724.8	699.4	697.0	675.3	644.9	615.9	587.0
10°	834.4	832.2	823.2	803.9	775.1	746.3	743.3	716.7	682.2	646.5	609.8
12.5°	882.5	880.9	869.0	844.9	814.3	784.3	780.4	756.6	719.8	679.8	636.4
15°	911.9	911.0	896.5	870.8	840.7	814.7	811.4	790.4	756.3	714.5	665.6
17.5°	918.7	919.0	903.9	878.0	853.2	834.6	831.9	816.1	787.5	746.0	694.7
20°	903.4	906.5	893.1	870.5	855.2	845.5	843.3	833.8	809.8	770.6	718.0
22.5°	881.7	883.3	874.0	859.0	852.6	854.5	853.3	848.1	827.7	791.7	741.0
25°	868.5	868.5	862.9	850.2	854.5	865.8	866.1	865.0	848.9	817.6	769.0
27.5°	867.9	866.3	860.0	850.4	862.1	879.6	880.6	887.7	877.7	849.1	803.9
30°	889.1	887.3	873.7	861.3	876.2	895.0	897.6	913.2	908.1	883.3	842.8
32.5°	938.5	932.0	902.1	881.7	892.8	915.3	918.7	943.6	951.5	925.3	880.4
35°	1006.3	985.4	942.3	920.3	921.4	944.9	948.1	984.6	1008.2	963.9	909.4
37.5°	1099.7	1089.3	1019.2	960.5	965.3	1001.0	1010.2	1050.0	1043.3	985.1	942.5
40°	1304.4	1288.3	1213.7	1073.3	1007.3	1046.5	1049.4	1070.5	1071.1	1033.0	1011.4
42.5°	1583.3	1576.6	1498.1	1277.7	1090.2	1076.9	1082.2	1117.9	1157.9	1134.0	1133.0
45°	1891.9	1888.5	1805.1	1549.1	1257.6	1176.7	1183.3	1231.2	1307.5	1312.9	1346.4
47.5°	2140.3	2138.7	2090.9	1852.0	1513.9	1345.7	1347.8	1398.6	1533.0	1599.4	1653.1
50°	2366.8	2374.4	2336.6	2179.8	1863.1	1610.5	1605.4	1639.3	1855.2	1963.9	2030.6
52.5°	2681.6	2692.4	2586.3	2485.5	2229.5	1939.0	1935.1	1970.5	2242.4	2324.0	2335.8
55°	2959.6	2941.1	2857.3	2828.1	2676.2	2344.8	2343.8	2375.0	2617.1	2651.7	2673.6
57.5°	3082.3	3075.2	3115.7	3182.3	3144.2	2824.4	2822.0	2798.3	2952.2	2955.9	3023.3
60°	3159.8	3168.6	3292.7	3498.2	3593.2	3340.5	3325.2	3179.9	3272.3	3264.1	3336.3
62.5°	3101.7	3118.9	3342.1	3684.7	3929.1	3791.0	3769.3	3529.7	3545.8	3517.5	3584.7
65°	2792.6	2819.4	3185.2	3649.5	4095.8	4143.1	4121.1	3838.4	3763.0	3716.4	3679.1
67.5°	2267.6	2283.5	2665.4	3343.4	4020.6	4353.2	4348.6	4109.0	3926.9	3682.8	3393.5
69°	1874.0	1889.6	2257.3	3021.3	3855.3	4398.1	4406.9	4195.8	3895.8	3478.6	3006.7
70°	1587.2	1603.8	1946.4	2745.1	3663.5	4377.2	4392.8	4187.5	3806.3	3242.1	2667.3
72.5°	832.5	846.8	1198.3	1891.2	2986.6	4019.3	4066.6	3833.6	3226.5	2354.6	1577.1
75°	261.6	269.8	468.0	988.5	2044.9	3125.2	3136.1	3007.2	2291.1	1295.1	656.8
77.5°	99.8	97.3	155.8	364.3	1033.8	1967.8	2034.3	1879.3	1202.3	457.9	151.6
80°	53.7	53.9	81.0	150.8	442.3	1011.4	1067.4	910.7	427.2	142.9	34.9
82.5°	23.3	24.3	45.5	79.8	203.2	373.0	401.0	333.9	163.2	96.0	13.0
85°	5.1	5.5	22.0	43.4	82.8	104.7	109.8	108.2	104.0	74.6	5.1
87.5°	0.0	0.0	9.8	15.6	20.9	23.8	20.9	27.2	57.4	50.3	2.6
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°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3
2.5°	565.8	561.1	552.8	543.9	537.5	530.9	525.6	523.2	520.6	518.7	521.2
5°	564.8	555.6	539.7	524.3	513.2	504.2	496.8	493.8	490.9	488.9	488.6
7.5°	574.1	561.1	536.8	514.2	497.0	484.9	474.9	470.6	467.2	465.6	464.2
10°	591.7	575.1	542.6	513.2	490.9	470.4	448.7	432.0	421.1	416.2	414.3
12.5°	614.7	593.9	553.7	518.7	486.5	446.8	400.7	361.1	335.5	327.0	321.9
15°	641.8	615.9	568.2	525.9	470.1	397.6	319.6	267.7	243.9	239.2	233.8
17.5°	667.7	639.1	585.7	527.2	434.1	317.7	234.1	199.0	189.7	192.9	193.6
20°	690.5	662.1	602.9	515.5	368.8	238.3	181.2	172.5	175.9	182.0	183.1
22.5°	713.5	684.3	618.8	484.9	285.2	180.9	163.2	165.3	168.8	174.8	175.9
25°	741.5	711.3	633.5	428.6	214.0	154.0	155.0	158.2	161.7	167.2	167.7
27.5°	773.8	745.4	643.4	355.3	158.8	141.6	144.9	149.7	153.1	158.5	159.5
30°	816.6	790.4	646.5	279.4	133.0	130.4	132.0	137.8	142.9	147.6	148.4
32.5°	856.8	834.8	636.0	210.8	123.2	120.1	120.1	123.5	129.4	133.9	134.9
35°	893.8	879.6	602.1	154.2	115.8	110.6	107.9	107.9	111.6	115.4	116.4
37.5°	942.8	942.3	547.3	123.0	108.7	102.7	97.0	92.8	91.5	92.3	92.8
40°	1026.7	1027.4	475.9	110.3	102.7	94.4	86.0	78.3	71.2	68.8	68.5
42.5°	1157.6	1145.7	401.0	104.3	97.3	86.0	73.3	62.9	51.9	48.4	48.2
45°	1365.5	1294.9	321.6	98.6	91.8	76.5	60.6	46.6	37.6	34.9	34.9
47.5°	1668.4	1490.9	249.2	92.6	84.4	65.6	45.7	33.6	27.5	26.2	26.5
50°	1981.7	1682.9	191.0	84.9	75.4	54.2	33.8	24.3	20.9	20.9	21.1
52.5°	2259.3	1823.6	148.9	76.7	64.3	42.6	25.6	19.1	17.5	17.2	17.5
55°	2519.5	1914.4	114.0	67.2	51.0	31.8	19.5	15.6	14.6	14.0	13.7
57.5°	2770.2	1959.4	85.5	54.2	37.0	23.0	15.6	13.2	12.2	11.4	11.1
60°	2937.1	1922.8	58.7	39.9	25.6	16.6	13.0	11.4	10.1	9.3	9.0
62.5°	3031.3	1823.2	37.9	28.8	18.2	12.4	10.3	9.5	7.7	6.9	6.9
65°	2993.2	1658.6	26.5	20.7	13.2	9.3	7.7	7.7	5.5	4.5	4.2
67.5°	2652.5	1401.2	20.1	15.3	9.5	6.9	5.8	6.6	3.5	2.2	2.2
69°	2282.2	1161.3	17.2	12.7	7.9	5.5	5.1	6.1	2.3	1.6	1.3
70°	1983.4	1001.8	15.6	11.1	6.6	4.8	4.5	5.8	2.3	1.3	1.0
72.5°	1186.7	558.7	11.9	7.9	4.2	3.7	3.7	6.6	2.3	1.3	1.0
75°	479.6	196.8	8.7	5.5	3.2	3.2	4.5	8.5	2.2	1.0	0.8
77.5°	108.7	43.1	5.1	3.5	2.2	3.2	5.3	6.6	1.3	0.6	0.0
80°	26.5	10.6	3.2	2.2	1.3	2.3	3.9	3.7	0.3	0.0	0.0
82.5°	8.7	3.7	1.3	1.0	0.3	0.8	1.9	1.0	0.0	0.0	0.0
85°	3.7	2.2	0.6	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0
87.5°	2.3	0.8	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)