

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: P385754

Luminaire Tested: GAW-SA1B-750-U-T3-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P385754  
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-SA1B-750-U-T3-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 5000K, 800mA 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: 4448 lumens  
Efficiency: N/A  
Efficacy: 101.1 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

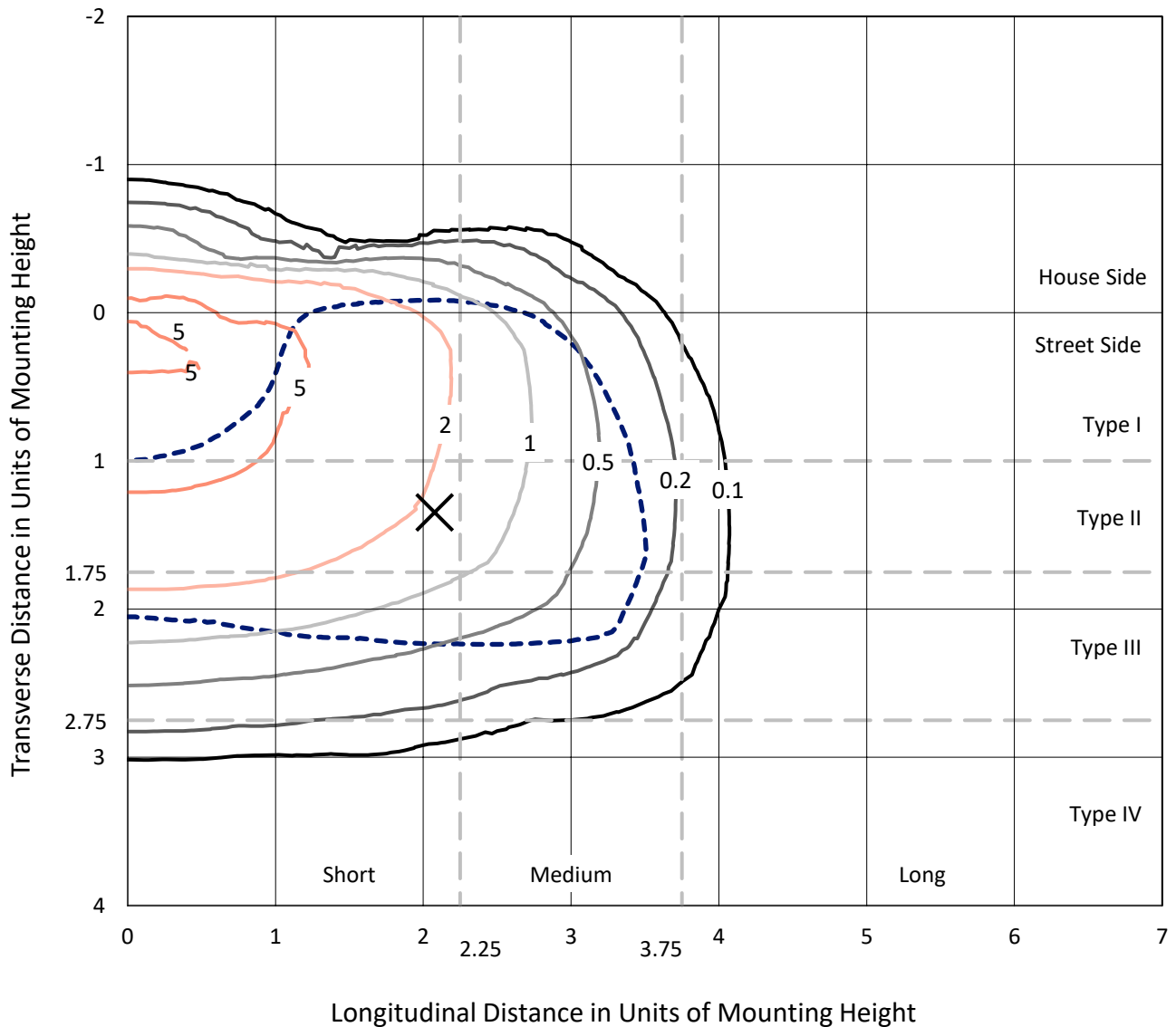
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

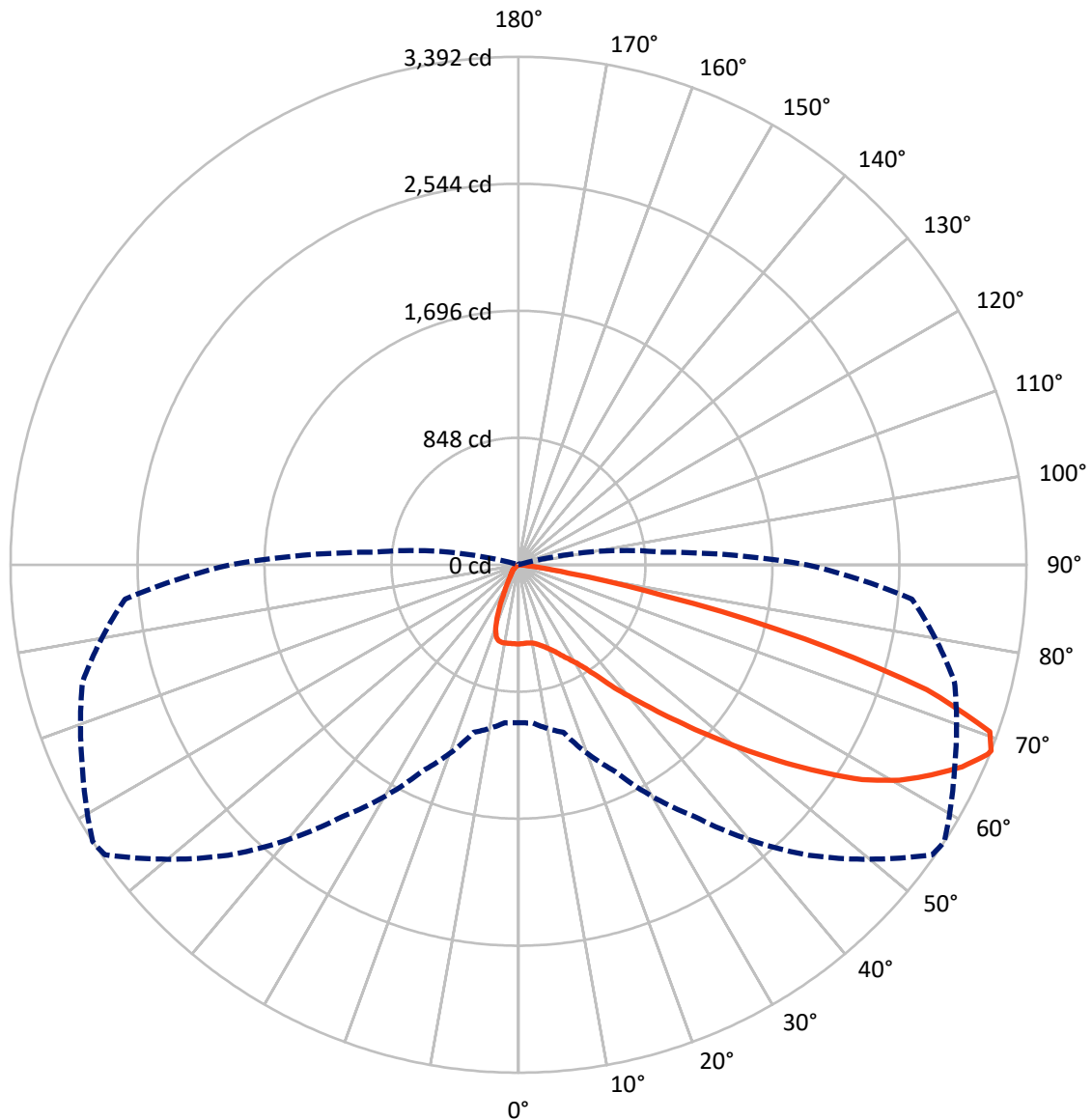
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 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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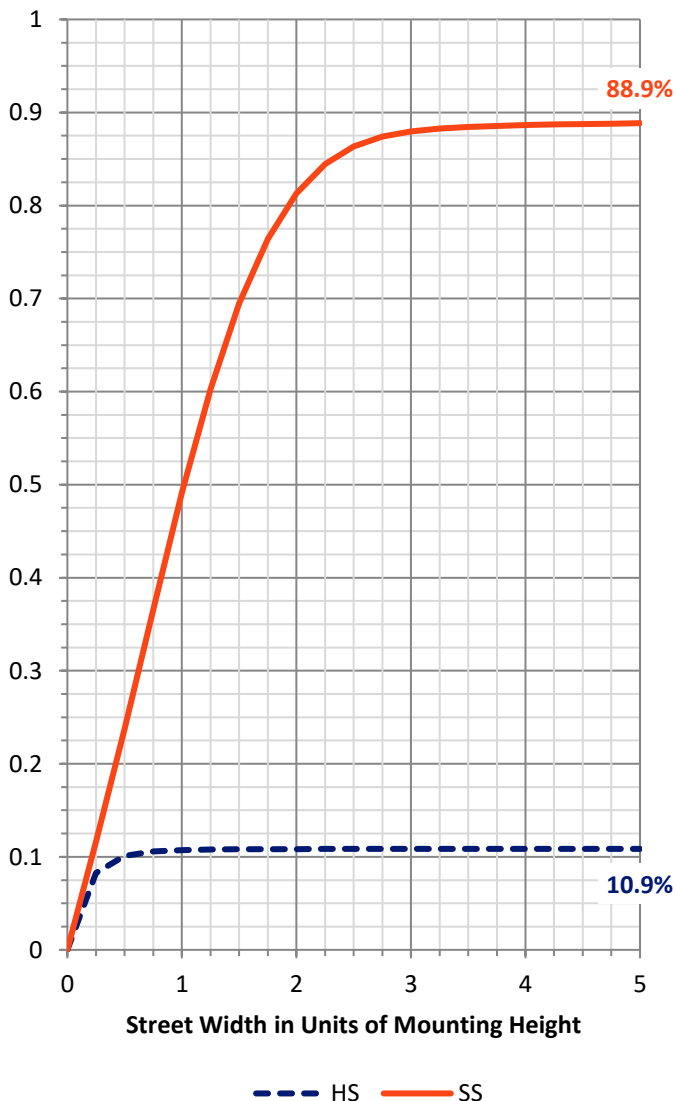
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	487.7	0.0	487.7
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	3960.3	0.0	3960.3
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	4448.0	0.0	4448.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.5	1.1
10°-20°	137.1	3.1
20°-30°	236.5	5.3
30°-40°	408.1	9.2
40°-50°	698.1	15.7
50°-60°	1116.9	25.1
60°-70°	1290.4	29.0
70°-80°	493.1	11.1
80°-90°	18.5	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°	4448.0	100.0
0°-180°	4448.0	100.0

**Coefficient of Utilization**



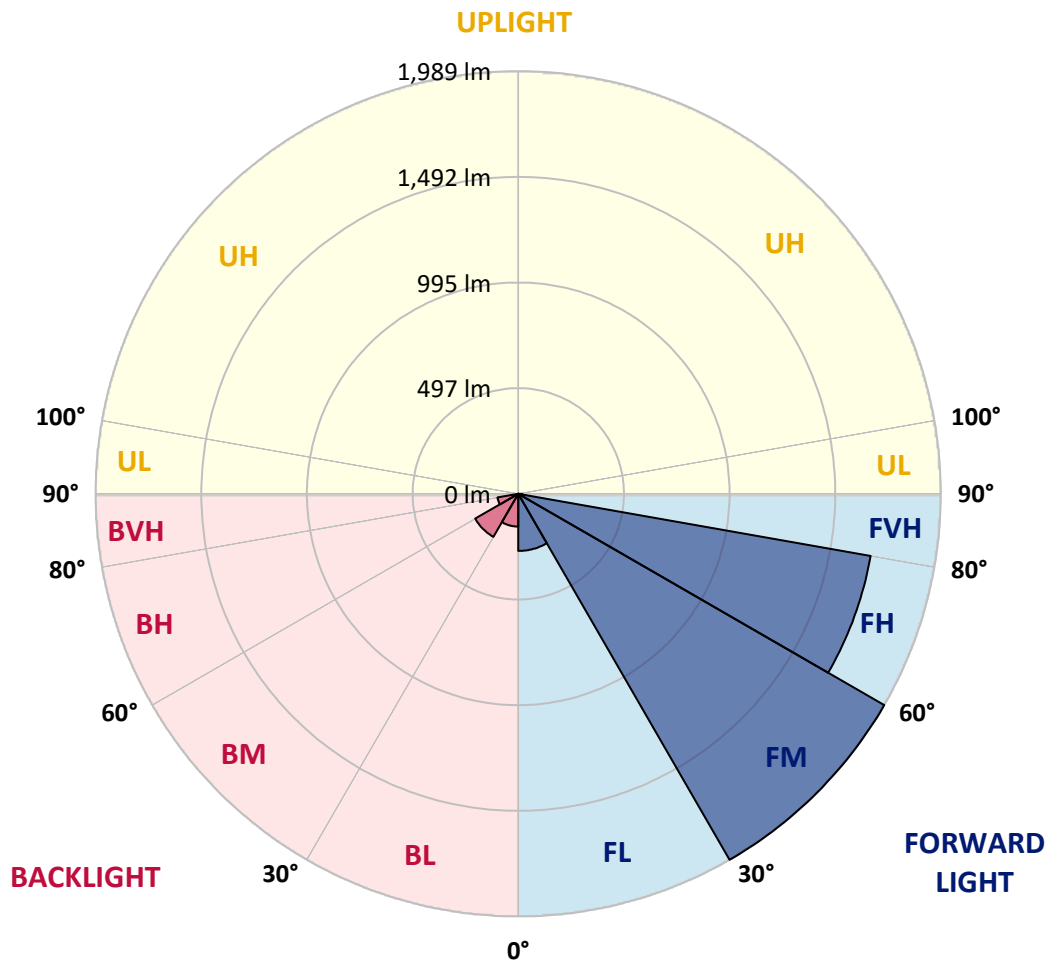
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	268.8	6.0			
FM (30°-60°)	1989.1	44.7			
FH (60°-80°)	1684.2	37.9			G1/1800
FVH (80°-90°)	18.1	0.4			G1/100
BL (0°-30°)	154.1	3.5	B1/500		
BM (30°-60°)	233.9	5.3	B1/1000		
BH (60°-80°)	99.3	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°	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5
2.5°	516.1	518.4	520.1	521.2	522.4	525.2	526.0	527.3	527.9	527.9	529.4
5°	495.7	498.3	501.8	504.8	510.7	518.2	523.7	525.8	529.6	533.0	534.8
7.5°	476.8	479.7	484.0	490.9	501.0	513.2	524.5	527.5	534.8	542.0	545.6
10°	464.6	466.9	472.4	482.3	495.5	512.6	528.5	532.1	544.7	556.7	563.5
12.5°	460.4	462.5	468.2	479.3	495.7	515.7	537.8	543.1	561.6	579.0	588.5
15°	466.5	466.9	473.0	483.5	499.7	523.5	553.1	559.5	582.8	605.5	617.3
17.5°	490.1	488.2	491.3	495.9	508.8	533.8	569.3	578.8	609.9	636.6	647.8
20°	548.9	548.9	541.8	529.2	529.4	549.8	591.2	601.9	640.0	670.9	681.0
22.5°	649.7	647.8	633.5	602.6	574.2	577.3	617.9	631.8	676.2	709.2	712.6
25°	770.8	768.5	746.4	702.9	653.7	621.9	654.1	670.1	719.3	748.5	741.6
27.5°	899.1	897.2	875.4	821.3	751.3	693.0	697.2	712.4	763.3	792.1	770.0
30°	1023.4	1024.1	1002.4	946.9	867.6	783.7	751.9	760.7	806.0	835.2	803.6
32.5°	1141.6	1142.5	1123.8	1061.7	987.7	889.0	827.6	825.3	855.6	884.4	848.2
35°	1247.0	1249.1	1236.3	1188.1	1109.7	1006.4	925.8	920.4	926.0	958.6	916.6
37.5°	1348.6	1349.8	1340.2	1299.6	1234.0	1135.3	1049.9	1042.1	1029.9	1055.0	1006.8
40°	1459.8	1456.7	1445.5	1408.7	1352.4	1277.7	1183.3	1169.8	1148.6	1170.9	1125.4
42.5°	1563.3	1559.7	1561.6	1520.0	1472.5	1424.1	1338.7	1315.6	1303.2	1328.8	1271.0
45°	1692.7	1690.8	1697.1	1660.9	1622.4	1587.3	1516.8	1491.6	1486.1	1516.2	1447.0
47.5°	1820.3	1825.0	1844.5	1829.2	1813.6	1782.7	1705.5	1694.1	1697.5	1733.9	1632.7
50°	1926.8	1932.2	1985.9	2003.5	2026.0	2007.9	1930.5	1923.6	1936.9	1969.7	1832.5
52.5°	2003.7	2014.9	2081.6	2163.0	2245.0	2257.2	2180.0	2173.7	2191.6	2196.6	1986.9
55°	2057.2	2067.0	2142.6	2291.5	2458.5	2511.0	2463.1	2438.7	2435.3	2385.5	2149.3
57.5°	2066.6	2065.6	2174.1	2374.5	2625.9	2761.5	2731.2	2707.3	2638.3	2560.0	2335.4
60°	2013.2	2019.3	2145.3	2403.4	2731.0	2951.0	2953.3	2922.2	2814.7	2729.8	2515.9
62.5°	1848.7	1873.6	2000.8	2327.8	2729.8	3027.4	3116.1	3092.4	2963.9	2868.8	2698.9
65°	1582.0	1590.9	1712.2	2069.1	2545.3	2995.4	3262.7	3253.9	3098.3	3003.8	2792.9
67.5°	1155.3	1136.2	1263.6	1629.4	2155.0	2809.1	3367.9	3379.0	3201.9	3031.6	2692.8
68°	1054.3	1060.0	1159.3	1520.6	2052.7	2743.2	3374.8	3391.9	3212.3	3013.5	2638.1
70°	628.4	639.4	727.9	1047.0	1561.6	2370.8	3300.0	3338.9	3150.8	2826.9	2281.8
72.5°	160.5	173.5	257.2	468.6	892.0	1670.4	2785.7	2851.5	2735.7	2293.4	1540.4
75°	66.0	69.4	91.9	154.4	332.3	752.5	1836.1	1977.0	1896.5	1373.0	696.2
77.5°	45.6	48.0	59.1	85.6	143.9	255.1	900.2	1002.0	902.7	468.6	151.9
80°	32.8	34.7	42.3	57.0	82.7	91.1	293.4	339.2	269.4	102.8	37.6
82.5°	19.6	21.0	31.5	40.6	50.3	43.5	73.0	82.9	78.0	51.1	16.8
85°	9.7	11.4	21.2	29.0	27.1	18.3	22.3	24.8	30.7	31.1	9.0
87.5°	0.6	1.3	12.4	17.5	7.6	4.2	6.5	8.0	10.9	15.4	3.8
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°	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5
2.5°	530.0	530.2	528.7	528.1	528.5	526.0	525.0	525.4	525.4	526.0	525.0
5°	535.3	535.3	532.7	529.4	527.5	522.7	519.5	518.7	518.0	517.6	516.8
7.5°	546.6	545.4	540.9	533.6	527.3	516.8	508.8	504.6	502.5	501.6	501.0
10°	564.9	562.6	555.3	541.6	527.1	508.3	490.9	478.5	468.2	464.0	461.4
12.5°	589.5	586.2	573.8	551.0	525.6	491.1	453.2	416.9	383.0	369.1	362.2
15°	617.9	613.1	593.5	559.0	517.0	452.2	370.0	306.2	259.3	241.7	234.1
17.5°	646.7	640.4	610.8	564.1	491.1	371.6	259.5	196.0	164.7	156.3	153.3
20°	675.8	666.5	625.7	560.3	432.6	268.0	171.2	143.2	134.2	131.7	130.8
22.5°	703.3	689.0	639.2	545.6	342.6	179.8	135.4	126.6	123.7	122.2	121.8
25°	727.3	707.3	650.9	500.1	242.5	135.9	122.0	119.0	115.3	112.5	112.7
27.5°	749.8	725.6	658.1	425.3	161.7	116.1	112.9	108.9	102.0	98.0	98.0
30°	776.9	750.0	663.4	327.3	119.0	102.6	100.1	94.0	84.5	79.3	79.3
32.5°	817.7	787.0	660.0	229.7	98.6	90.2	84.3	75.9	65.6	60.6	60.4
35°	880.2	844.2	636.0	150.6	87.1	78.5	69.0	58.7	49.6	45.4	45.2
37.5°	964.3	920.8	582.2	107.7	78.0	67.5	56.2	44.8	38.1	35.3	35.1
40°	1073.5	1009.8	505.2	87.3	69.6	57.0	43.3	34.7	30.1	28.0	28.2
42.5°	1204.5	1105.0	412.9	75.3	61.4	46.9	33.9	27.3	24.4	22.9	22.5
45°	1350.1	1199.0	316.1	67.1	53.2	37.9	26.5	21.7	19.3	18.5	18.5
47.5°	1510.1	1290.5	231.4	59.9	44.4	29.2	21.2	17.7	15.8	15.1	14.9
50°	1655.4	1354.1	166.8	52.4	36.4	23.1	17.2	14.7	13.5	12.6	12.6
52.5°	1776.6	1374.0	122.8	44.2	29.4	18.5	14.3	12.6	11.4	10.7	10.7
55°	1883.2	1365.8	91.3	36.4	23.8	15.1	12.2	10.7	9.7	9.0	9.0
57.5°	1985.4	1339.3	68.1	29.7	19.1	12.2	10.3	9.0	8.0	7.6	7.6
60°	2068.9	1295.2	50.7	24.0	15.4	9.9	8.6	7.4	6.5	5.9	5.9
62.5°	2136.7	1246.4	37.2	19.8	12.2	7.8	6.7	6.1	4.8	4.2	4.2
65°	2137.1	1165.4	28.0	16.4	9.5	6.1	5.0	4.8	3.2	2.5	2.3
67.5°	1982.5	1004.7	21.5	14.1	7.4	4.6	3.8	4.0	1.7	1.1	0.8
68°	1926.3	963.9	20.2	13.9	6.9	4.4	3.6	4.0	1.5	0.8	0.6
70°	1624.1	766.8	16.2	13.5	6.1	3.4	2.9	4.0	1.3	0.6	0.4
72.5°	1038.8	445.0	12.0	10.7	4.6	2.5	1.9	3.6	1.3	0.4	0.2
75°	442.1	138.0	8.2	7.6	2.7	1.9	1.3	2.3	0.8	0.2	0.0
77.5°	93.2	31.1	4.8	4.6	1.9	1.3	0.8	0.6	0.2	0.0	0.0
80°	24.0	9.0	2.5	2.3	1.1	0.6	0.4	0.0	0.0	0.0	0.0
82.5°	7.6	3.6	1.5	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.8	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)