

Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1208035

Luminaire Tested: UPW-SA1-040-727-U-T4W-HSS

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1208035  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/19/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA1-040-727-U-T4W-HSS  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(1) 70 CRI, 2700K, 800mA 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: 3699 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

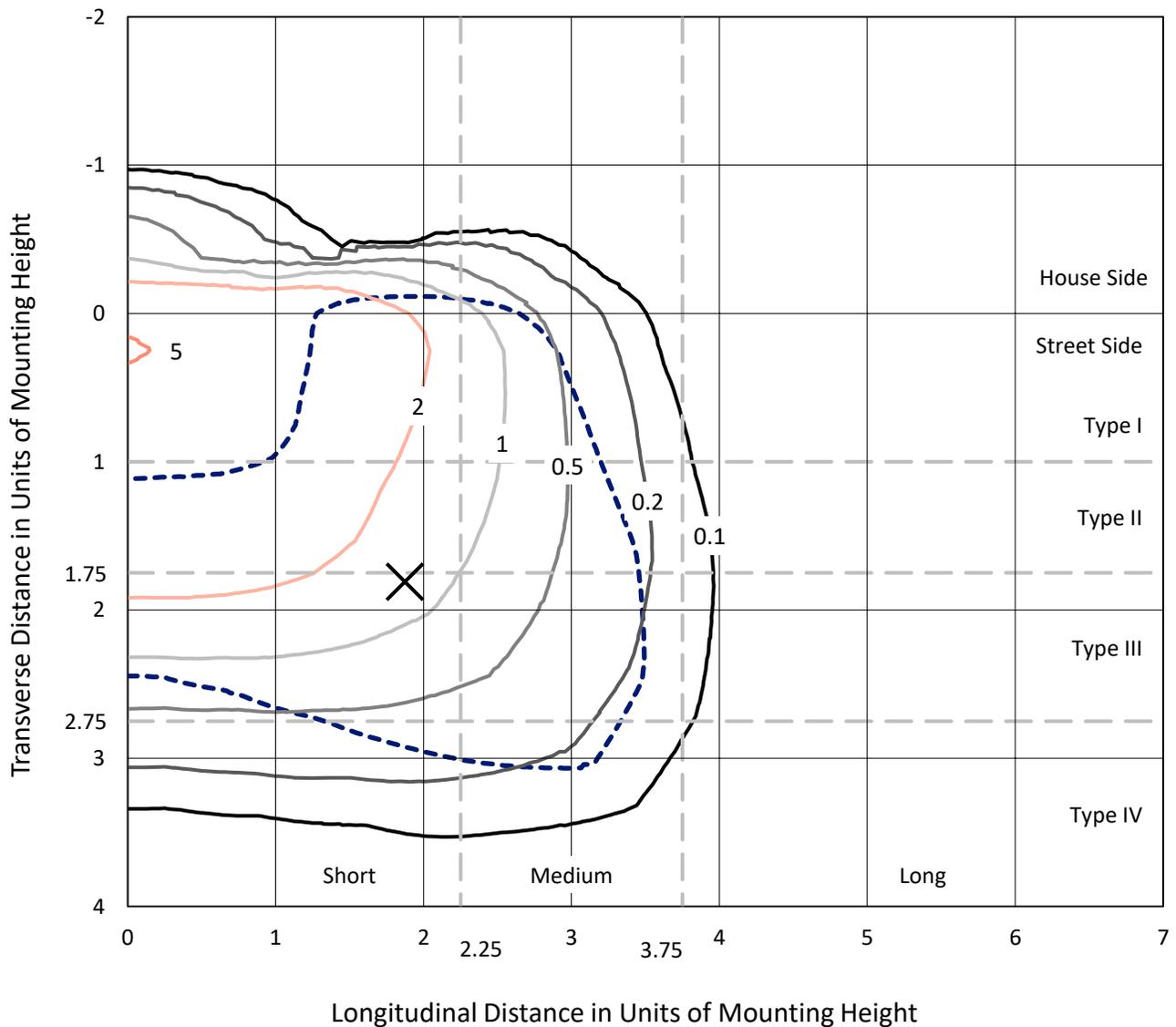
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

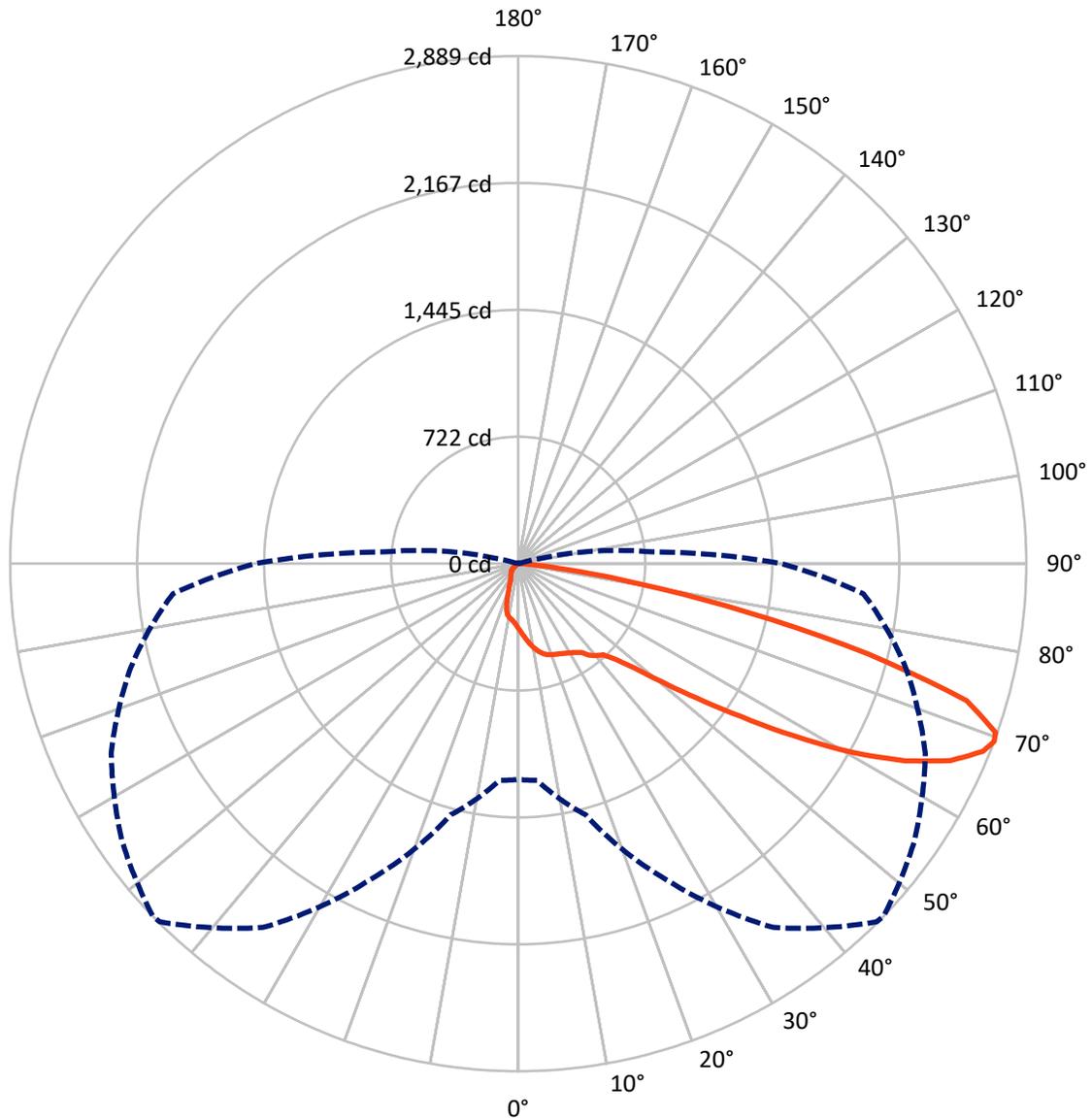
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.4 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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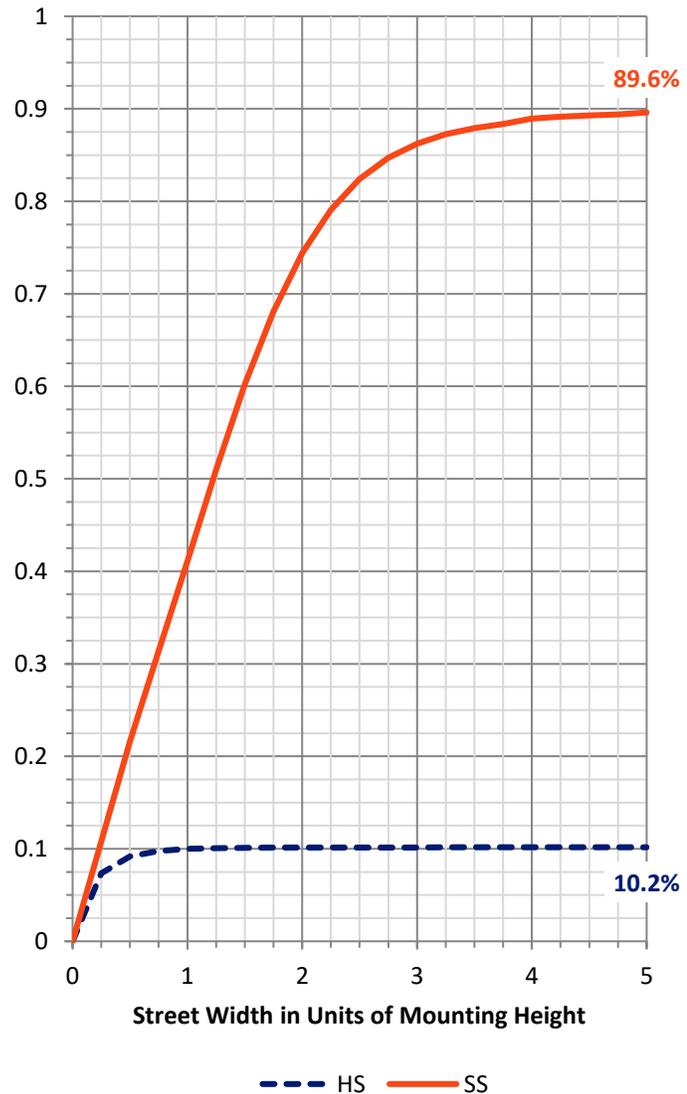
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	379.6	0.0	379.6
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	3319.4	0.0	3319.4
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	3699.0	0.0	3699.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.9	1.0
10°-20°	111.9	3.0
20°-30°	176.0	4.8
30°-40°	252.4	6.8
40°-50°	436.2	11.8
50°-60°	861.8	23.3
60°-70°	1204.5	32.6
70°-80°	581.9	15.7
80°-90°	37.4	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°	3699.0	100.0
0°-180°	3699.0	100.0



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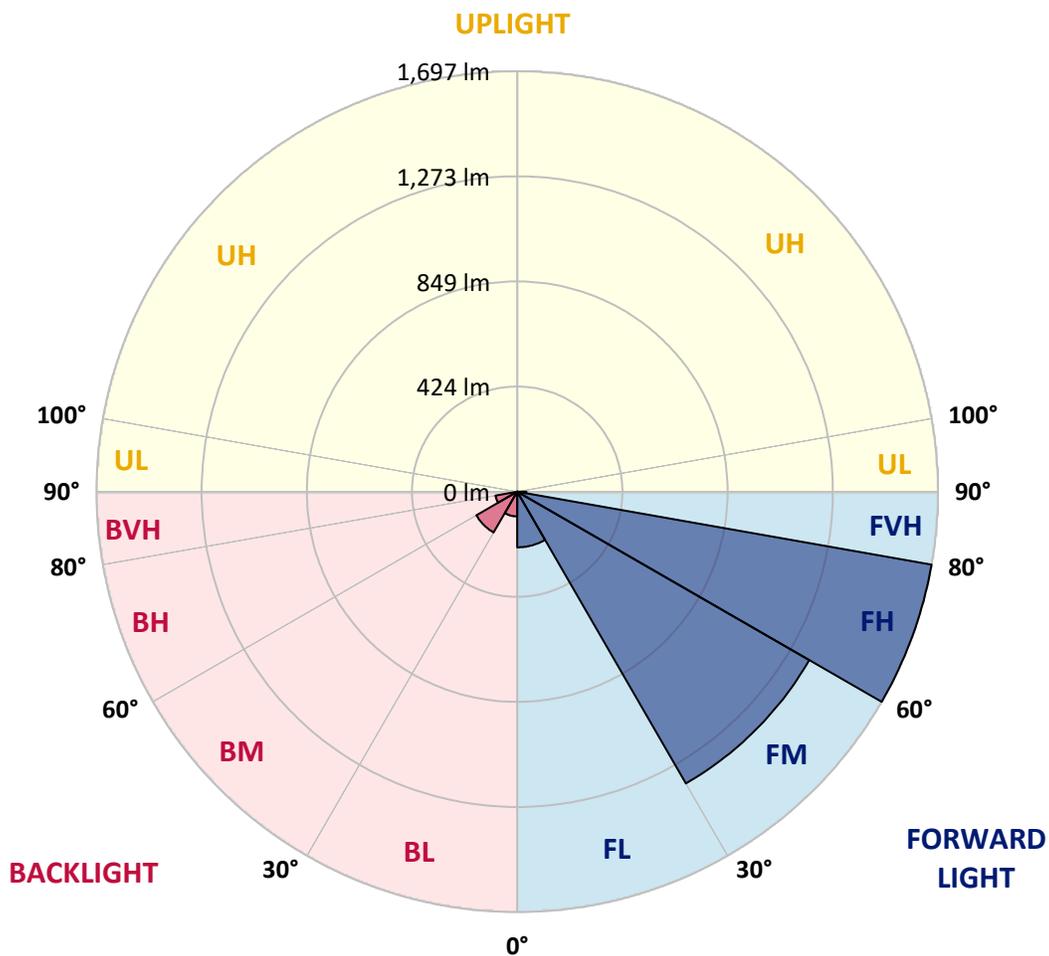
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	224.8	6.1			
FM	(30°-60°)	1360.2	36.8			
FH	(60°-80°)	1697.3	45.9			G1/1800
FVH	(80°-90°)	37.1	1.0			G1/100
BL	(0°-30°)	100.1	2.7	B0/110		
BM	(30°-60°)	190.2	5.1	B0/220		
BH	(60°-80°)	89.0	2.4	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: B0-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	370.6	370.6	370.6	370.6	370.6	370.6	370.6	370.6	370.6	370.6	370.6
2.5°	411.7	411.2	408.8	407.7	401.8	398.4	397.0	392.7	386.4	380.2	373.2
5°	458.6	458.4	453.9	449.5	438.4	428.0	426.1	416.1	402.0	388.8	375.7
7.5°	506.4	504.2	499.7	491.3	475.2	458.6	457.0	442.8	422.8	403.8	384.8
10°	547.0	545.6	539.7	527.1	508.2	489.3	487.3	469.8	447.3	423.9	399.8
12.5°	578.6	577.5	569.7	553.9	533.8	514.2	511.6	496.0	471.9	445.7	417.3
15°	597.8	597.3	587.8	570.9	551.2	534.2	531.9	518.2	495.8	468.4	436.4
17.5°	602.3	602.5	592.6	575.6	559.3	547.2	545.4	535.0	516.3	489.1	455.4
20°	592.3	594.4	585.5	570.8	560.7	554.3	552.9	546.7	530.9	505.2	470.7
22.5°	578.1	579.1	573.0	563.1	559.0	560.2	559.5	556.0	542.7	519.1	485.8
25°	569.4	569.4	565.7	557.4	560.2	567.6	567.8	567.1	556.5	536.1	504.2
27.5°	569.0	568.0	563.8	557.6	565.2	576.7	577.4	582.0	575.5	556.7	527.1
30°	582.9	581.7	572.8	564.7	574.4	586.7	588.5	598.7	595.4	579.1	552.6
32.5°	615.3	611.0	591.4	578.1	585.3	600.1	602.3	618.6	623.8	606.7	577.2
35°	659.7	646.0	617.8	603.4	604.1	619.5	621.6	645.5	661.0	632.0	596.3
37.5°	721.0	714.2	668.2	629.7	632.9	656.3	662.3	688.4	684.0	645.9	617.9
40°	855.2	844.6	795.7	703.6	660.4	686.1	688.0	701.9	702.2	677.3	663.0
42.5°	1038.0	1033.7	982.2	837.7	714.7	706.0	709.5	732.9	759.1	743.5	742.8
45°	1240.4	1238.1	1183.5	1015.6	824.5	771.4	775.8	807.2	857.3	860.7	882.8
47.5°	1403.2	1402.2	1370.8	1214.2	992.6	882.3	883.6	916.9	1005.0	1048.6	1083.8
50°	1551.7	1556.7	1531.9	1429.1	1221.5	1055.9	1052.6	1074.8	1216.3	1287.6	1331.3
52.5°	1758.1	1765.2	1695.7	1629.6	1461.7	1271.3	1268.7	1291.9	1470.2	1523.6	1531.4
55°	1940.4	1928.2	1873.2	1854.2	1754.6	1537.3	1536.6	1557.1	1715.8	1738.5	1752.9
57.5°	2020.8	2016.2	2042.7	2086.4	2061.4	1851.7	1850.2	1834.6	1935.5	1937.9	1982.2
60°	2071.7	2077.4	2158.7	2293.5	2355.7	2190.1	2180.1	2084.8	2145.4	2140.0	2187.3
62.5°	2033.5	2044.8	2191.2	2415.7	2576.0	2485.5	2471.2	2314.1	2324.7	2306.1	2350.2
65°	1830.9	1848.4	2088.3	2392.7	2685.3	2716.3	2701.9	2516.5	2467.1	2436.6	2412.1
67.5°	1486.7	1497.1	1747.5	2192.0	2636.0	2854.0	2851.1	2693.9	2574.6	2414.5	2224.8
69°	1228.6	1238.8	1479.9	1980.8	2527.6	2883.5	2889.2	2750.8	2554.1	2280.6	1971.2
70°	1040.6	1051.5	1276.1	1799.7	2401.9	2869.8	2880.0	2745.4	2495.5	2125.6	1748.7
72.5°	545.8	555.2	785.7	1239.9	1958.1	2635.1	2666.2	2513.4	2115.4	1543.7	1034.0
75°	171.5	176.9	306.8	648.1	1340.6	2048.9	2056.0	1971.6	1502.1	849.1	430.6
77.5°	65.4	63.8	102.2	238.8	677.8	1290.2	1333.7	1232.1	788.3	300.2	99.4
80°	35.2	35.4	53.1	98.9	290.0	663.0	699.8	597.1	280.1	93.7	22.9
82.5°	15.3	16.0	29.8	52.4	133.2	244.5	262.9	218.9	107.0	63.0	8.5
85°	3.3	3.6	14.4	28.4	54.3	68.7	72.0	70.9	68.2	48.9	3.3
87.5°	0.0	0.0	6.4	10.2	13.7	15.6	13.7	17.9	37.6	33.0	1.7
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°	370.6	370.6	370.6	370.6	370.6	370.6	370.6	370.6	370.6	370.6	370.6
2.5°	371.0	367.9	362.5	356.6	352.4	348.1	344.6	343.1	341.3	340.1	341.7
5°	370.3	364.2	353.8	343.7	336.5	330.6	325.7	323.8	321.9	320.5	320.3
7.5°	376.3	367.9	351.9	337.2	325.9	317.9	311.3	308.5	306.3	305.2	304.4
10°	388.0	377.0	355.7	336.5	321.9	308.4	294.1	283.2	276.1	272.8	271.6
12.5°	403.1	389.4	363.0	340.1	318.9	292.9	262.8	236.7	219.9	214.4	211.1
15°	420.7	403.8	372.5	344.8	308.2	260.7	209.5	175.5	159.9	156.8	153.3
17.5°	437.7	419.0	384.0	345.7	284.6	208.3	153.5	130.4	124.4	126.4	127.0
20°	452.7	434.1	395.3	338.0	241.8	156.3	118.8	113.1	115.3	119.3	120.0
22.5°	467.7	448.7	405.7	317.9	187.0	118.6	107.0	108.4	110.7	114.6	115.3
25°	486.1	466.4	415.4	281.0	140.3	100.9	101.6	103.7	106.0	109.6	110.0
27.5°	507.3	488.7	421.8	232.9	104.1	92.8	95.0	98.2	100.4	103.9	104.6
30°	535.4	518.2	423.9	183.1	87.2	85.5	86.5	90.4	93.7	96.8	97.3
32.5°	561.7	547.4	416.9	138.2	80.8	78.7	78.7	81.0	84.8	87.8	88.5
35°	586.0	576.7	394.7	101.1	76.0	72.5	70.8	70.8	73.2	75.6	76.3
37.5°	618.1	617.8	358.8	80.6	71.3	67.3	63.6	60.9	60.0	60.5	60.9
40°	673.1	673.6	312.0	72.3	67.3	61.9	56.4	51.3	46.7	45.1	44.9
42.5°	758.9	751.1	262.9	68.3	63.8	56.4	48.0	41.3	34.0	31.7	31.6
45°	895.3	849.0	210.9	64.7	60.2	50.1	39.7	30.5	24.6	22.9	22.9
47.5°	1093.8	977.5	163.4	60.7	55.3	43.0	30.0	22.0	18.0	17.2	17.3
50°	1299.2	1103.4	125.2	55.7	49.4	35.6	22.2	16.0	13.7	13.7	13.9
52.5°	1481.3	1195.6	97.6	50.3	42.1	27.9	16.8	12.5	11.4	11.3	11.4
55°	1651.8	1255.1	74.7	44.1	33.5	20.8	12.8	10.2	9.5	9.2	9.0
57.5°	1816.2	1284.6	56.0	35.6	24.3	15.1	10.2	8.7	8.0	7.5	7.3
60°	1925.6	1260.7	38.5	26.2	16.8	10.9	8.5	7.5	6.6	6.1	5.9
62.5°	1987.4	1195.3	24.8	18.9	12.0	8.2	6.8	6.2	5.0	4.5	4.5
65°	1962.4	1087.4	17.3	13.5	8.7	6.1	5.0	5.0	3.6	2.9	2.8
67.5°	1739.0	918.7	13.2	10.1	6.2	4.5	3.8	4.3	2.3	1.4	1.4
69°	1496.2	761.4	11.3	8.3	5.2	3.6	3.3	4.0	1.6	1.0	0.9
70°	1300.4	656.8	10.2	7.3	4.3	3.1	2.9	3.8	1.6	0.9	0.7
72.5°	778.0	366.3	7.8	5.2	2.8	2.4	2.4	4.3	1.6	0.9	0.7
75°	314.4	129.0	5.7	3.6	2.1	2.1	2.9	5.5	1.4	0.7	0.5
77.5°	71.3	28.3	3.3	2.3	1.4	2.1	3.5	4.3	0.9	0.3	0.0
80°	17.3	6.9	2.1	1.4	0.9	1.6	2.6	2.4	0.2	0.0	0.0
82.5°	5.7	2.4	0.9	0.7	0.2	0.5	1.2	0.7	0.0	0.0	0.0
85°	2.4	1.4	0.3	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0
87.5°	1.6	0.5	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)