

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: P1208999

Luminaire Tested: UPW-SA2-090-727-U-T2R-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1208999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-727-U-T2R-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8050 lumens
Efficiency: N/A
Efficacy: 93.6 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): 86
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

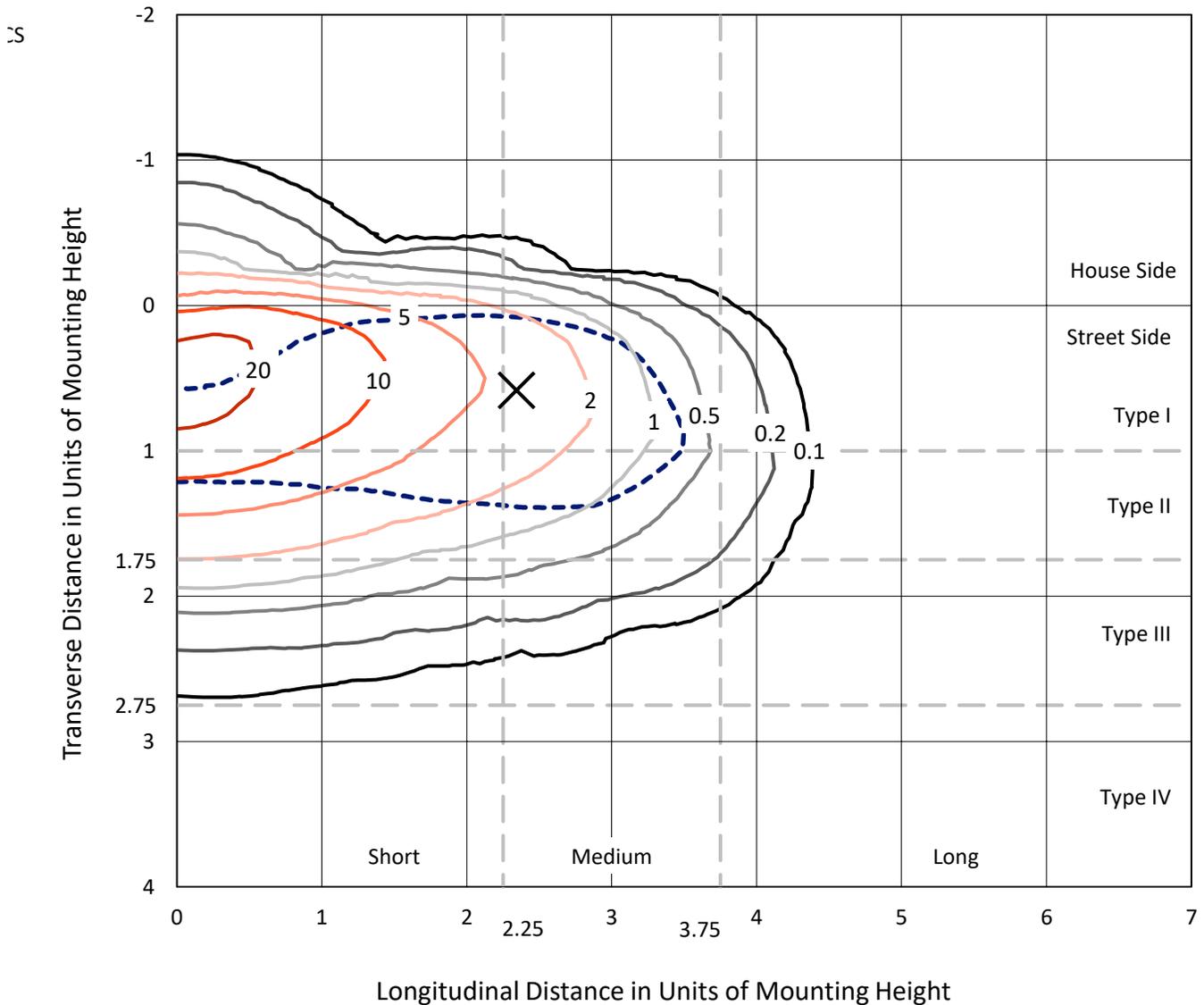


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Iso-Footcandle Lines of Horizontal Illumination

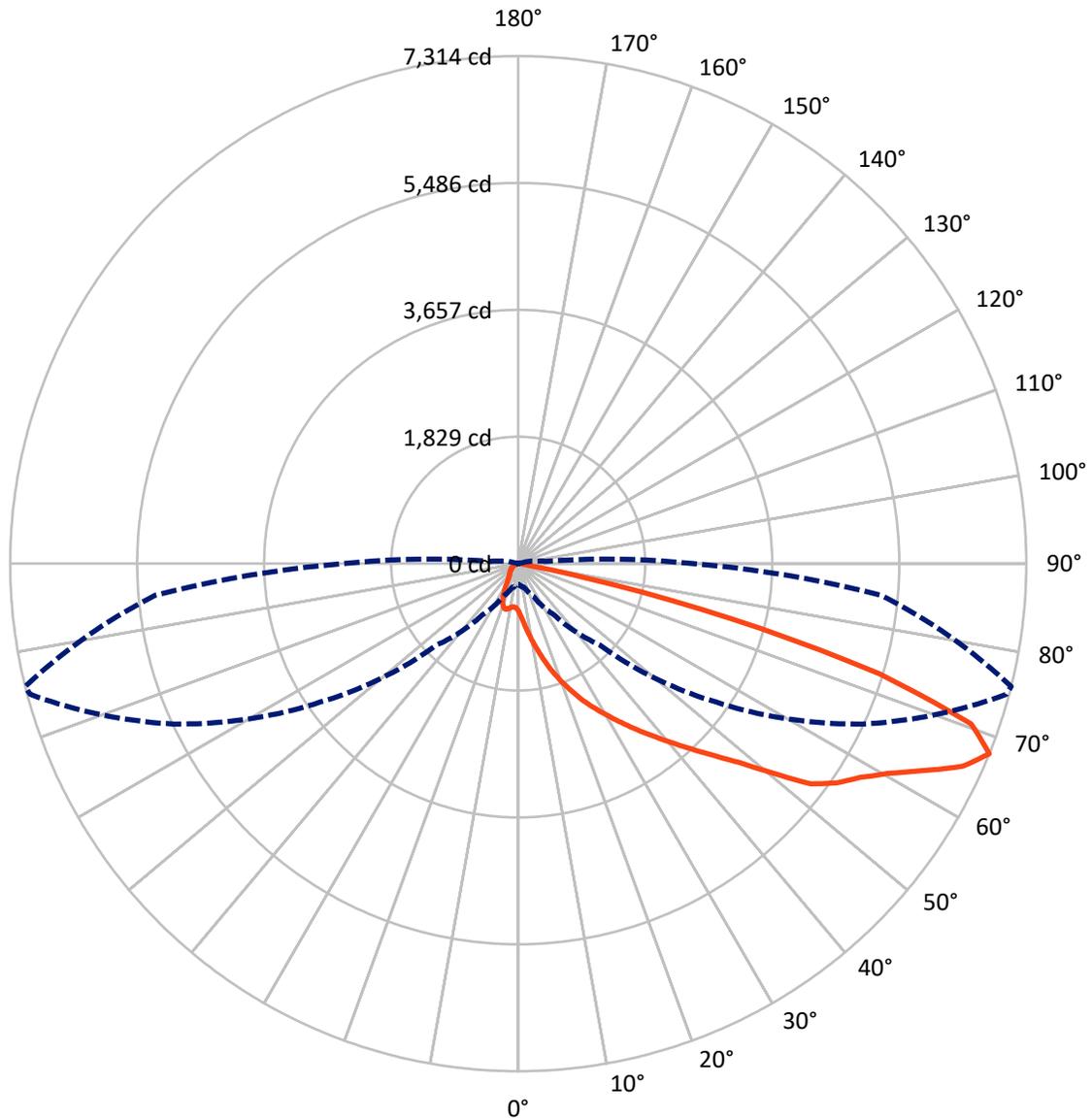
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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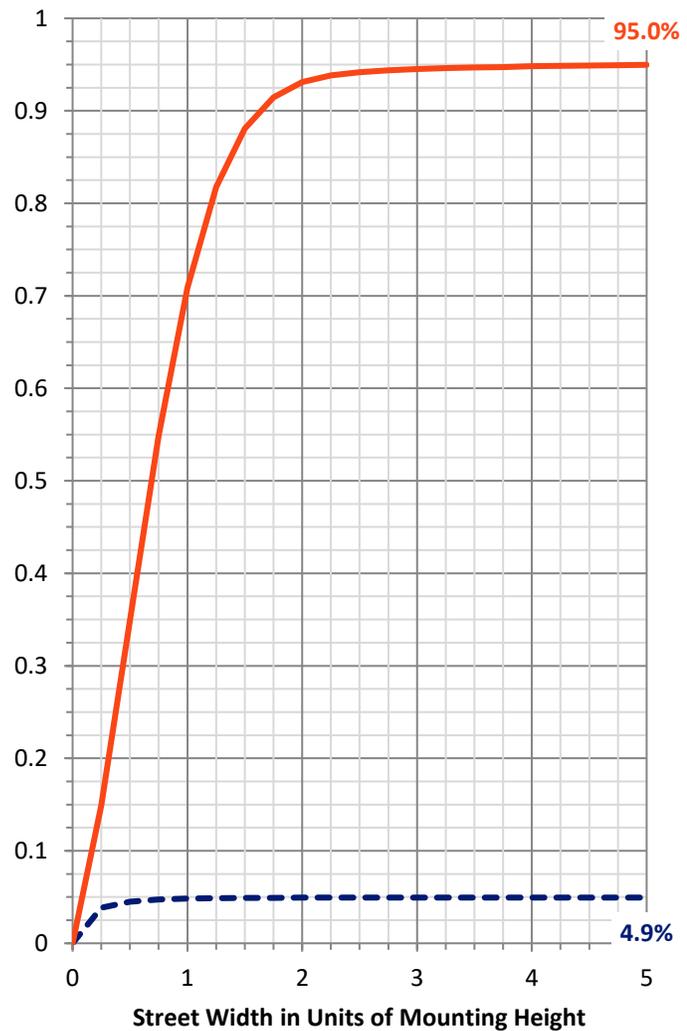
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	399.7	0.0	399.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	7650.3	0.0	7650.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	8050.0	0.0	8050.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	1.1
10°-20°	336.6	4.2
20°-30°	684.9	8.5
30°-40°	1188.8	14.8
40°-50°	1679.6	20.9
50°-60°	1904.7	23.7
60°-70°	1579.8	19.6
70°-80°	572.2	7.1
80°-90°	18.6	0.2
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°	8050.0	100.0
0°-180°	8050.0	100.0



--- HS — SS

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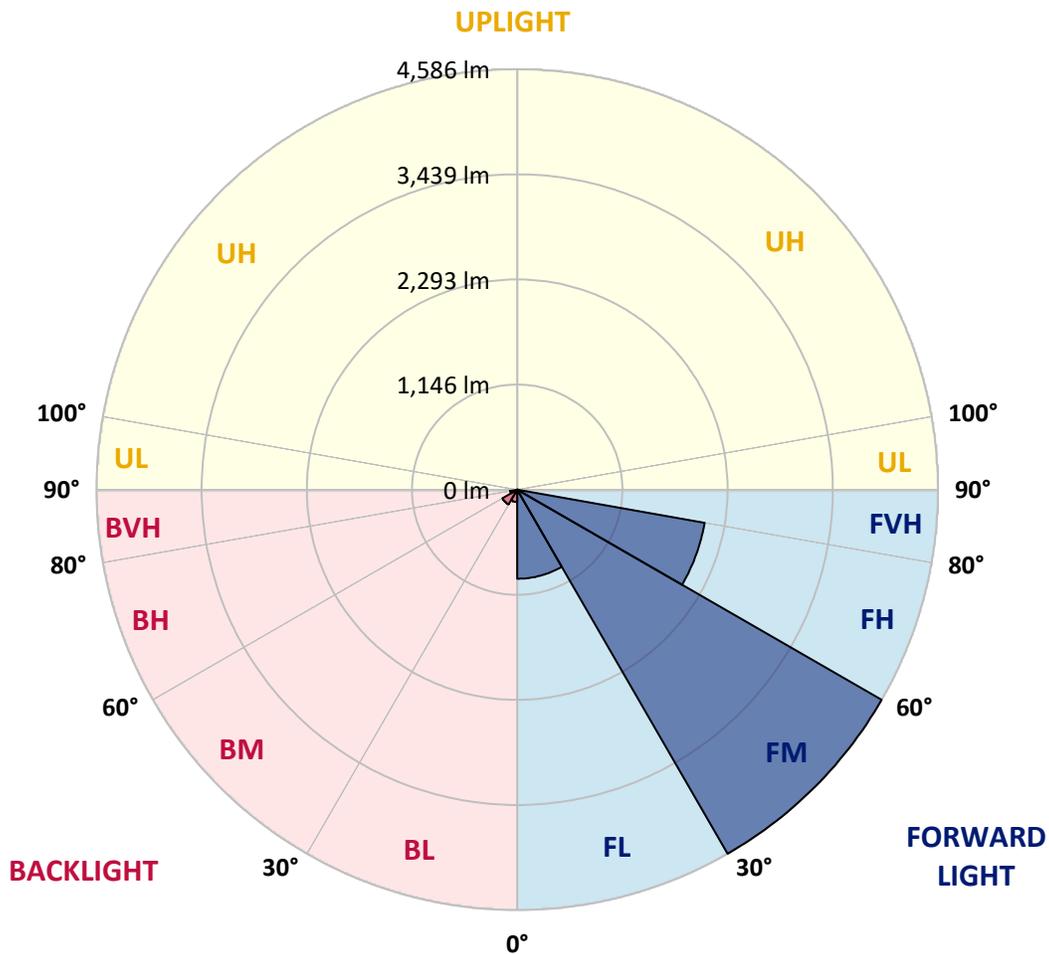
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	971.6	12.1			
FM	(30°-60°)	4585.9	57.0			
FH	(60°-80°)	2074.8	25.8			G2/5000
FVH	(80°-90°)	18.0	0.2			G1/100
BL	(0°-30°)	134.8	1.7	B1/500		
BM	(30°-60°)	187.1	2.3	B0/220		
BH	(60°-80°)	77.3	1.0	B0/110		G0/110
BVH	(80°-90°)	0.6	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°	75°	76°	85°
0°	682.9	682.9	682.9	682.9	682.9	682.9	682.9	682.9	682.9	682.9	682.9
2.5°	1019.4	996.4	1001.7	986.9	960.1	905.1	858.2	813.7	761.9	760.1	717.4
5°	1374.6	1355.2	1352.7	1322.7	1274.0	1180.6	1089.6	985.9	870.2	861.7	771.1
7.5°	1697.0	1681.4	1675.8	1640.2	1549.5	1458.5	1340.0	1187.6	1006.7	991.2	843.4
10°	1944.6	1937.2	1938.6	1913.2	1835.6	1750.9	1595.4	1401.0	1161.5	1137.5	930.1
12.5°	2132.2	2134.0	2146.7	2131.2	2087.8	2025.0	1858.9	1628.5	1332.9	1300.1	1029.2
15°	2270.1	2278.9	2302.2	2321.6	2318.5	2264.1	2111.8	1859.6	1514.9	1478.6	1139.7
17.5°	2359.4	2369.2	2403.1	2446.1	2485.6	2472.9	2355.8	2082.5	1699.1	1657.1	1257.8
20°	2437.7	2449.3	2485.6	2542.4	2616.2	2632.0	2555.1	2298.7	1882.8	1831.7	1379.9
22.5°	2607.3	2607.0	2629.2	2662.4	2732.6	2773.5	2724.8	2499.4	2064.5	2011.2	1504.4
25°	2914.2	2902.6	2894.8	2868.7	2884.2	2909.6	2882.5	2687.0	2247.2	2193.2	1630.6
27.5°	3278.9	3286.0	3223.2	3153.0	3098.7	3072.6	3028.1	2860.9	2422.9	2363.6	1754.1
30°	3663.7	3665.9	3591.8	3502.2	3382.6	3283.5	3206.6	3027.1	2603.5	2538.9	1874.0
32.5°	4010.8	3997.1	3923.7	3801.7	3650.7	3539.2	3379.4	3212.6	2794.6	2732.2	2007.4
35°	4285.9	4269.7	4180.5	4069.4	3912.8	3800.6	3608.4	3397.8	2995.7	2934.7	2141.0
37.5°	4487.0	4468.0	4376.2	4262.0	4126.9	4061.6	3874.0	3599.2	3215.1	3149.5	2281.8
40°	4556.8	4540.3	4482.8	4399.2	4290.5	4275.7	4155.8	3830.9	3453.9	3384.0	2441.2
42.5°	4515.2	4499.0	4478.5	4450.3	4405.2	4419.3	4421.7	4095.1	3719.1	3650.3	2617.2
45°	4350.1	4335.7	4356.8	4398.1	4454.2	4524.0	4664.4	4379.1	4015.4	3942.0	2820.7
47.5°	4107.1	4096.5	4155.1	4258.1	4422.1	4614.7	4886.3	4677.5	4348.0	4279.9	3074.7
50°	3761.4	3759.7	3876.8	4064.8	4317.0	4658.4	5115.6	5016.8	4810.1	4738.5	3427.8
52.5°	3223.2	3226.7	3457.0	3757.9	4132.5	4628.8	5263.0	5452.8	5347.6	5273.2	3733.6
55°	2710.7	2731.8	2895.2	3329.0	3849.6	4518.7	5313.8	5656.3	5644.3	5573.7	3903.6
57.5°	2208.8	2247.2	2404.5	2809.8	3436.6	4265.1	5285.9	5744.5	5865.1	5811.1	4127.9
60°	1664.9	1682.5	1863.8	2242.6	2906.4	3802.4	5083.8	5792.4	6167.0	6129.6	4453.5
62.5°	1059.2	1103.3	1264.2	1629.6	2263.1	3159.7	4743.1	5791.7	6544.8	6565.2	4873.6
65°	558.0	609.5	694.9	1009.8	1555.2	2441.9	4230.6	5737.4	7008.3	7036.8	5202.0
67.5°	300.9	315.7	360.8	524.1	901.9	1654.3	3477.5	5469.3	7276.7	7314.4	5247.8
70°	220.1	228.2	245.1	289.9	454.0	960.8	2537.5	4861.6	6930.7	6916.6	4662.7
72.5°	169.0	181.7	194.4	212.3	261.0	512.9	1579.8	3806.9	5530.0	5436.9	3485.3
75°	133.3	135.4	153.4	169.7	195.8	292.1	701.6	2217.2	3375.2	3154.8	1807.4
77.5°	106.5	107.9	118.5	132.6	157.3	191.9	217.3	872.3	1077.6	961.5	392.2
80°	63.1	66.7	88.2	102.3	130.5	121.0	79.4	189.4	168.2	152.4	66.0
82.5°	35.3	38.1	49.7	80.8	91.0	57.8	39.5	51.1	39.5	38.4	18.7
85°	0.0	1.8	32.1	50.1	37.0	12.7	16.6	16.9	11.6	10.9	7.4
87.5°	0.0	0.0	9.9	9.5	1.4	2.1	3.9	5.6	4.6	4.6	3.9
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°	682.9	682.9	682.9	682.9	682.9	682.9	682.9	682.9	682.9	682.9	682.9
2.5°	696.3	677.2	641.3	606.0	576.4	552.0	530.1	521.3	514.3	513.2	507.6
5°	727.3	688.9	620.1	563.7	525.9	499.1	476.2	462.1	451.1	446.9	443.0
7.5°	774.2	716.0	617.3	552.4	507.2	462.1	419.7	373.9	345.3	334.4	328.0
10°	831.4	752.0	627.8	549.2	470.2	374.9	304.8	246.6	222.9	215.2	213.0
12.5°	898.0	796.8	646.2	529.4	391.2	266.3	210.2	190.5	185.2	182.7	182.7
15°	974.6	845.8	659.2	472.3	289.2	201.4	182.0	172.8	167.2	164.0	164.4
17.5°	1052.9	893.8	652.9	389.4	213.4	179.2	164.7	154.8	147.1	143.9	143.2
20°	1131.9	938.2	617.6	289.9	180.6	162.6	146.4	135.4	127.7	124.5	123.8
22.5°	1213.7	976.0	555.5	212.7	162.3	144.3	128.4	117.5	110.0	107.2	105.8
25°	1293.4	1006.7	468.8	172.1	145.0	127.0	111.8	101.6	94.9	92.1	91.7
27.5°	1367.9	1026.1	368.2	152.0	129.8	111.5	97.7	88.5	82.9	80.8	80.4
30°	1434.9	1027.8	272.3	137.2	116.4	98.1	85.4	77.2	72.3	70.2	69.5
32.5°	1502.6	1013.0	198.2	123.8	104.1	86.4	74.1	67.7	64.2	62.4	62.4
35°	1566.4	978.8	154.5	112.2	92.1	75.1	65.3	60.7	58.6	56.8	56.8
37.5°	1628.9	929.8	131.2	101.9	80.8	65.6	57.5	54.7	52.9	51.1	51.1
40°	1692.4	868.1	119.2	92.4	71.6	58.2	51.1	48.7	46.9	45.5	45.1
42.5°	1770.3	796.8	111.5	83.6	63.5	51.5	45.1	42.3	40.9	39.5	38.8
45°	1860.6	735.4	105.1	74.8	56.8	45.9	39.2	36.3	34.2	32.5	32.1
47.5°	1990.8	691.0	96.6	65.3	50.4	39.9	33.9	30.7	27.5	25.7	25.4
50°	2156.9	654.3	85.7	56.8	44.1	33.9	28.2	24.3	21.5	19.8	19.8
52.5°	2239.4	606.3	75.8	49.4	37.0	28.6	22.9	18.3	16.9	15.2	15.2
55°	2272.6	569.6	66.0	42.0	30.7	23.6	18.0	14.1	13.1	12.0	11.6
57.5°	2365.7	559.1	57.5	35.6	25.4	18.7	13.8	10.6	9.9	8.5	8.5
60°	2515.6	564.4	49.7	30.3	20.5	14.5	10.2	8.1	7.4	6.0	6.0
62.5°	2677.5	557.7	42.0	26.1	15.9	10.6	7.1	6.0	6.0	3.5	3.2
65°	2708.6	496.6	36.0	21.5	12.3	7.8	4.6	3.9	5.3	0.7	0.0
67.5°	2513.9	385.2	31.0	16.6	9.2	6.0	3.5	1.8	4.6	0.0	0.0
70°	2010.2	244.8	25.0	12.0	7.1	4.9	2.8	0.7	3.5	0.0	0.0
72.5°	1421.5	142.1	19.8	8.5	6.0	3.9	2.1	0.0	2.1	0.0	0.0
75°	718.9	75.8	12.3	6.3	4.6	2.8	1.4	0.0	0.4	0.0	0.0
77.5°	155.6	35.3	7.8	4.6	3.2	1.8	0.7	0.0	0.0	0.0	0.0
80°	33.9	15.5	4.9	2.8	1.8	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	12.3	8.1	2.5	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.7	4.2	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	1.4	0.4	0.4	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)