

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: P1208918

Luminaire Tested: UPW-SA2-070-827-U-T2R-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1208918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-070-827-U-T2R-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 80 CRI, 2700K, 615mA 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: 5771 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

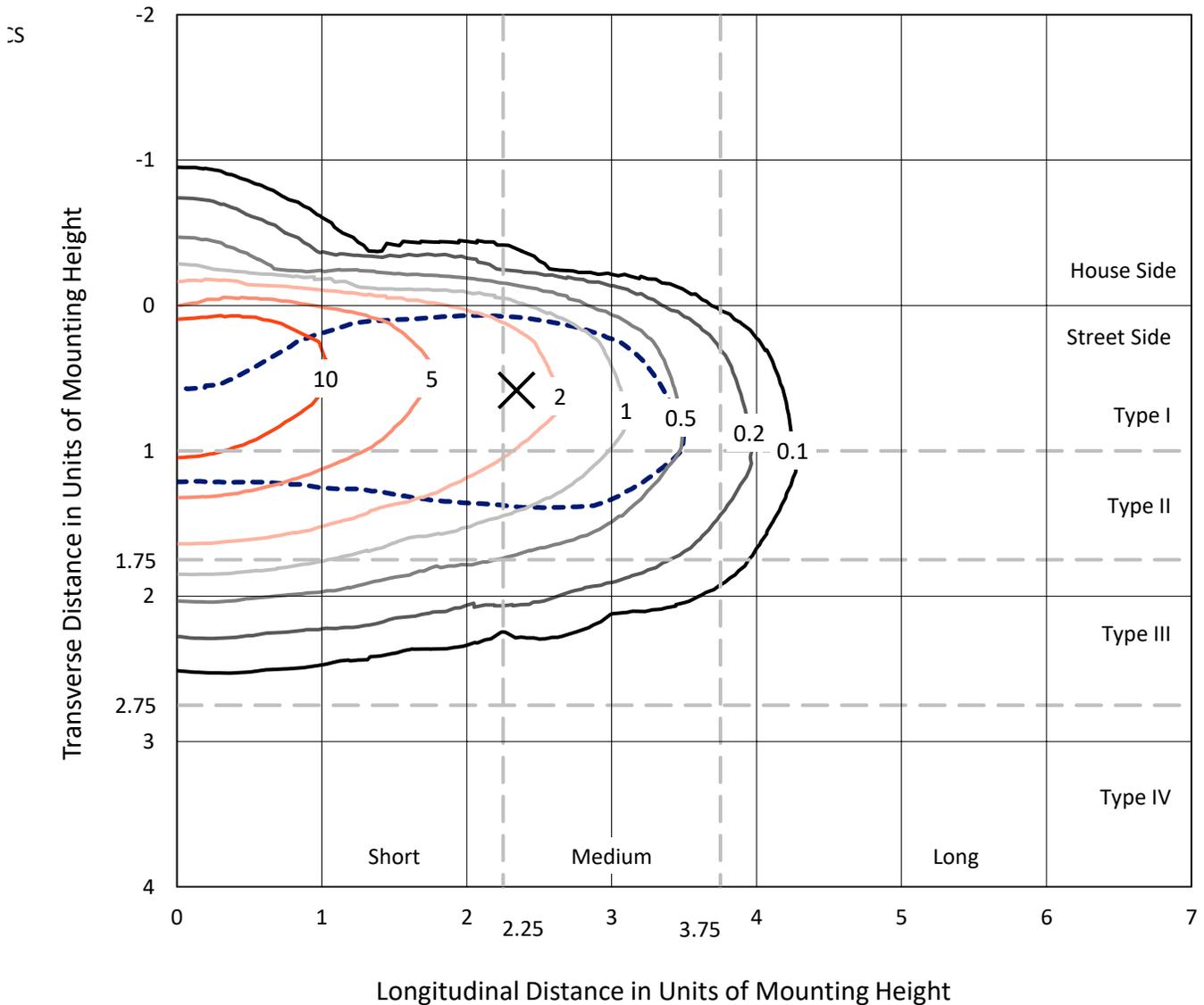
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

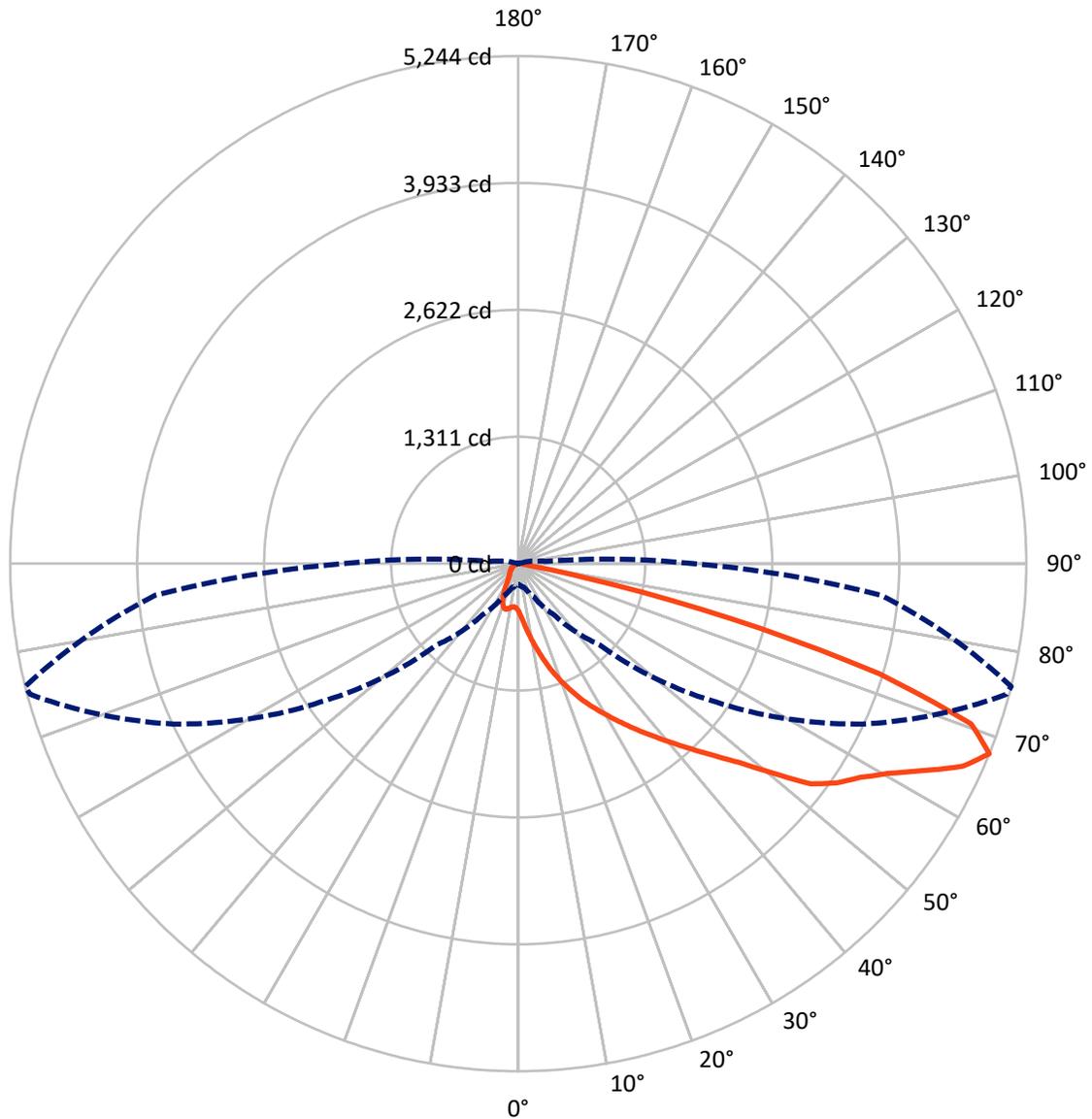
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.2 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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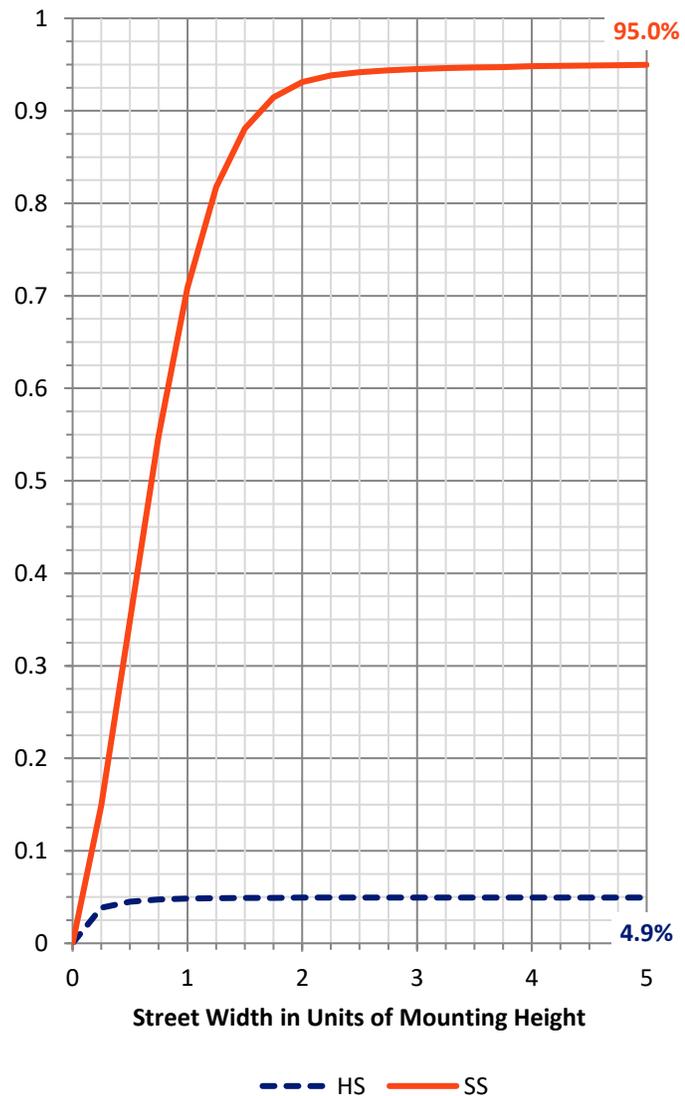
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	286.6	0.0	286.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	5484.4	0.0	5484.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	5771.0	0.0	5771.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.9	1.1
10°-20°	241.3	4.2
20°-30°	491.0	8.5
30°-40°	852.2	14.8
40°-50°	1204.1	20.9
50°-60°	1365.5	23.7
60°-70°	1132.5	19.6
70°-80°	410.2	7.1
80°-90°	13.3	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°	5771.0	100.0
0°-180°	5771.0	100.0



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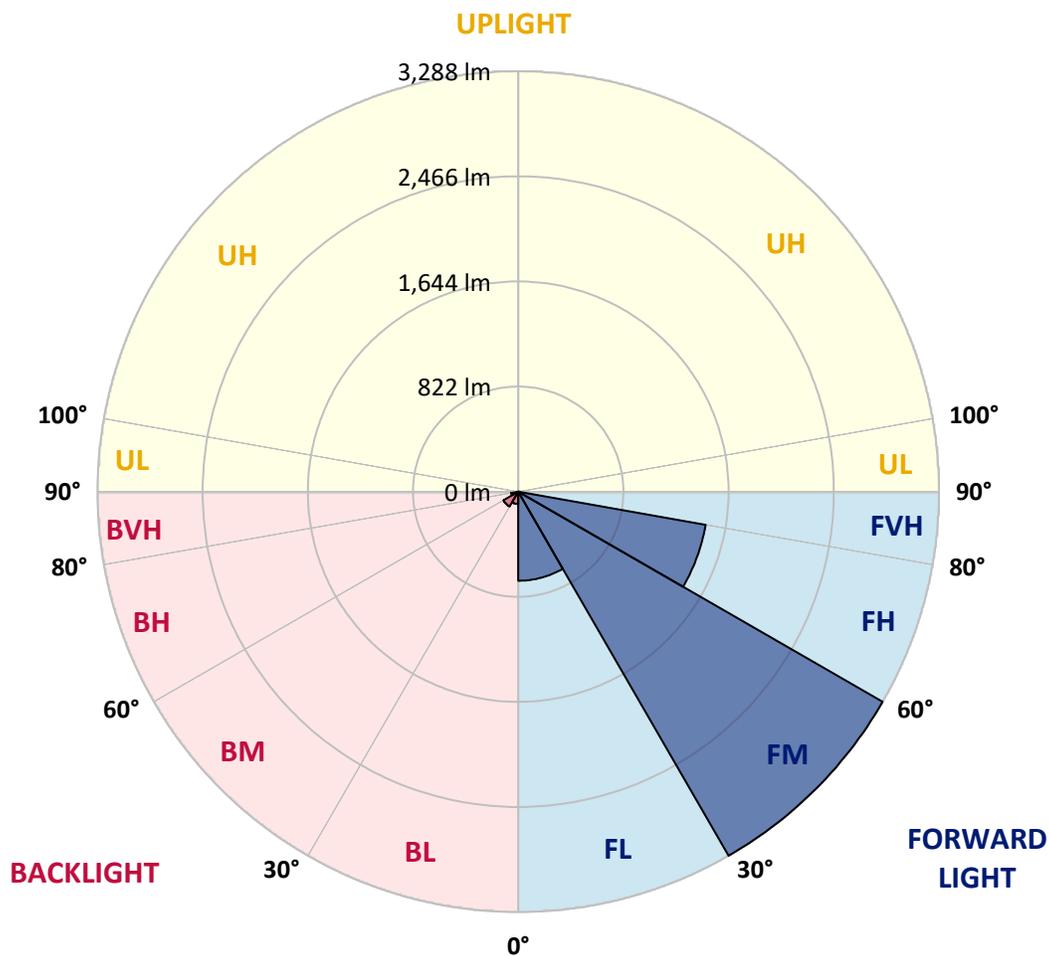
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	696.5	12.1			
FM	(30°-60°)	3287.6	57.0			
FH	(60°-80°)	1487.4	25.8			G1/1800
FVH	(80°-90°)	12.9	0.2			G1/100
BL	(0°-30°)	96.6	1.7	B0/110		
BM	(30°-60°)	134.1	2.3	B0/220		
BH	(60°-80°)	55.4	1.0	B0/110		G0/110
BVH	(80°-90°)	0.4	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	489.5	489.5	489.5	489.5	489.5	489.5	489.5	489.5	489.5	489.5	489.5
2.5°	730.8	714.3	718.1	707.5	688.3	648.9	615.2	583.4	546.2	544.9	514.3
5°	985.4	971.5	969.7	948.2	913.4	846.3	781.1	706.8	623.8	617.8	552.8
7.5°	1216.5	1205.4	1201.4	1175.8	1110.8	1045.6	960.6	851.4	721.7	710.6	604.6
10°	1394.0	1388.7	1389.7	1371.5	1315.9	1255.2	1143.7	1004.4	832.7	815.5	666.8
12.5°	1528.6	1529.8	1538.9	1527.8	1496.7	1451.7	1332.6	1167.5	955.6	932.1	737.9
15°	1627.4	1633.8	1650.5	1664.4	1662.1	1623.1	1513.9	1333.1	1086.1	1060.0	817.0
17.5°	1691.4	1698.5	1722.8	1753.6	1781.9	1772.8	1688.9	1492.9	1218.1	1188.0	901.7
20°	1747.6	1755.9	1781.9	1822.7	1875.5	1886.9	1831.8	1647.9	1349.8	1313.1	989.2
22.5°	1869.2	1868.9	1884.9	1908.6	1959.0	1988.3	1953.4	1791.8	1480.0	1441.8	1078.5
25°	2089.2	2080.8	2075.3	2056.6	2067.7	2085.9	2066.4	1926.3	1611.0	1572.3	1169.0
27.5°	2350.6	2355.7	2310.7	2260.4	2221.4	2202.7	2170.9	2051.0	1736.9	1694.5	1257.5
30°	2626.5	2628.0	2574.9	2510.7	2425.0	2353.9	2298.8	2170.1	1866.4	1820.1	1343.5
32.5°	2875.3	2865.5	2812.9	2725.4	2617.2	2537.3	2422.7	2303.1	2003.5	1958.7	1439.1
35°	3072.6	3060.9	2997.0	2917.3	2805.0	2724.6	2586.8	2435.9	2147.6	2103.8	1534.9
37.5°	3216.7	3203.0	3137.3	3055.4	2958.5	2911.7	2777.2	2580.2	2304.9	2257.8	1635.8
40°	3266.8	3254.9	3213.7	3153.7	3075.9	3065.2	2979.3	2746.4	2476.1	2426.0	1750.1
42.5°	3236.9	3225.3	3210.6	3190.4	3158.0	3168.2	3169.9	2935.8	2666.2	2616.9	1876.3
45°	3118.6	3108.2	3123.4	3153.0	3193.2	3243.3	3343.9	3139.3	2878.6	2826.0	2022.2
47.5°	2944.4	2936.8	2978.8	3052.6	3170.2	3308.2	3502.9	3353.3	3117.1	3068.3	2204.2
50°	2696.6	2695.3	2779.2	2914.0	3094.8	3339.6	3667.3	3596.5	3448.3	3397.0	2457.3
52.5°	2310.7	2313.2	2478.3	2694.0	2962.6	3318.4	3773.0	3909.1	3833.7	3780.3	2676.6
55°	1943.3	1958.4	2075.5	2386.5	2759.8	3239.5	3809.4	4055.0	4046.4	3995.8	2798.5
57.5°	1583.4	1611.0	1723.8	2014.3	2463.7	3057.7	3789.4	4118.2	4204.7	4166.0	2959.3
60°	1193.5	1206.2	1336.1	1607.7	2083.6	2725.9	3644.6	4152.6	4421.1	4394.3	3192.7
62.5°	759.4	791.0	906.3	1168.2	1622.4	2265.2	3400.3	4152.1	4691.9	4706.6	3493.8
65°	400.0	437.0	498.1	724.0	1114.9	1750.6	3032.9	4113.1	5024.2	5044.7	3729.3
67.5°	215.7	226.3	258.7	375.8	646.6	1185.9	2493.0	3920.9	5216.6	5243.7	3762.1
70°	157.8	163.6	175.7	207.9	325.4	688.8	1819.1	3485.2	4968.6	4958.4	3342.6
72.5°	121.1	130.2	139.3	152.2	187.1	367.7	1132.6	2729.2	3964.4	3897.7	2498.6
75°	95.6	97.1	110.0	121.6	140.3	209.4	502.9	1589.5	2419.7	2261.6	1295.7
77.5°	76.4	77.4	85.0	95.1	112.8	137.6	155.8	625.3	772.5	689.3	281.2
80°	45.3	47.8	63.2	73.3	93.6	86.7	56.9	135.8	120.6	109.2	47.3
82.5°	25.3	27.3	35.7	57.9	65.2	41.5	28.3	36.7	28.3	27.6	13.4
85°	0.0	1.3	23.0	35.9	26.6	9.1	11.9	12.1	8.3	7.8	5.3
87.5°	0.0	0.0	7.1	6.8	1.0	1.5	2.8	4.0	3.3	3.3	2.8
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°	489.5	489.5	489.5	489.5	489.5	489.5	489.5	489.5	489.5	489.5	489.5
2.5°	499.2	485.5	459.7	434.4	413.2	395.7	380.1	373.7	368.7	367.9	363.9
5°	521.4	493.8	444.5	404.1	377.0	357.8	341.4	331.3	323.4	320.4	317.6
7.5°	555.0	513.3	442.5	396.0	363.6	331.3	300.9	268.0	247.6	239.7	235.2
10°	596.0	539.1	450.1	393.7	337.1	268.8	218.5	176.8	159.8	154.2	152.7
12.5°	643.8	571.2	463.2	379.6	280.4	190.9	150.7	136.5	132.8	131.0	131.0
15°	698.7	606.4	472.6	338.6	207.3	144.4	130.5	123.9	119.9	117.6	117.8
17.5°	754.8	640.8	468.1	279.2	153.0	128.5	118.1	111.0	105.4	103.2	102.7
20°	811.4	672.6	442.8	207.9	129.5	116.6	104.9	97.1	91.5	89.3	88.8
22.5°	870.1	699.7	398.3	152.5	116.3	103.4	92.0	84.2	78.9	76.9	75.9
25°	927.3	721.7	336.1	123.4	103.9	91.0	80.2	72.8	68.0	66.0	65.7
27.5°	980.6	735.6	264.0	109.0	93.1	79.9	70.0	63.5	59.4	57.9	57.7
30°	1028.7	736.9	195.2	98.4	83.4	70.3	61.2	55.4	51.8	50.3	49.8
32.5°	1077.2	726.2	142.1	88.8	74.6	62.0	53.1	48.6	46.0	44.8	44.8
35°	1123.0	701.7	110.8	80.4	66.0	53.9	46.8	43.5	42.0	40.7	40.7
37.5°	1167.7	666.6	94.1	73.1	57.9	47.0	41.2	39.2	37.9	36.7	36.7
40°	1213.2	622.3	85.5	66.3	51.3	41.7	36.7	34.9	33.6	32.6	32.4
42.5°	1269.1	571.2	79.9	59.9	45.5	36.9	32.4	30.3	29.3	28.3	27.8
45°	1333.9	527.2	75.4	53.6	40.7	32.9	28.1	26.0	24.5	23.3	23.0
47.5°	1427.2	495.4	69.3	46.8	36.2	28.6	24.3	22.0	19.7	18.5	18.2
50°	1546.3	469.1	61.4	40.7	31.6	24.3	20.2	17.4	15.4	14.2	14.2
52.5°	1605.4	434.7	54.4	35.4	26.6	20.5	16.4	13.1	12.1	10.9	10.9
55°	1629.2	408.4	47.3	30.1	22.0	16.9	12.9	10.1	9.4	8.6	8.3
57.5°	1696.0	400.8	41.2	25.5	18.2	13.4	9.9	7.6	7.1	6.1	6.1
60°	1803.4	404.6	35.7	21.7	14.7	10.4	7.3	5.8	5.3	4.3	4.3
62.5°	1919.5	399.8	30.1	18.7	11.4	7.6	5.1	4.3	4.3	2.5	2.3
65°	1941.8	356.0	25.8	15.4	8.9	5.6	3.3	2.8	3.8	0.5	0.0
67.5°	1802.2	276.1	22.3	11.9	6.6	4.3	2.5	1.3	3.3	0.0	0.0
70°	1441.1	175.5	18.0	8.6	5.1	3.5	2.0	0.5	2.5	0.0	0.0
72.5°	1019.0	101.9	14.2	6.1	4.3	2.8	1.5	0.0	1.5	0.0	0.0
75°	515.3	54.4	8.9	4.6	3.3	2.0	1.0	0.0	0.3	0.0	0.0
77.5°	111.5	25.3	5.6	3.3	2.3	1.3	0.5	0.0	0.0	0.0	0.0
80°	24.3	11.1	3.5	2.0	1.3	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	8.9	5.8	1.8	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.8	3.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	1.0	0.3	0.3	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)