

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: P1209393

Luminaire Tested: UPW-SA2-110-827-U-SL3-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-4)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-110-827-U-SL3-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7505 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

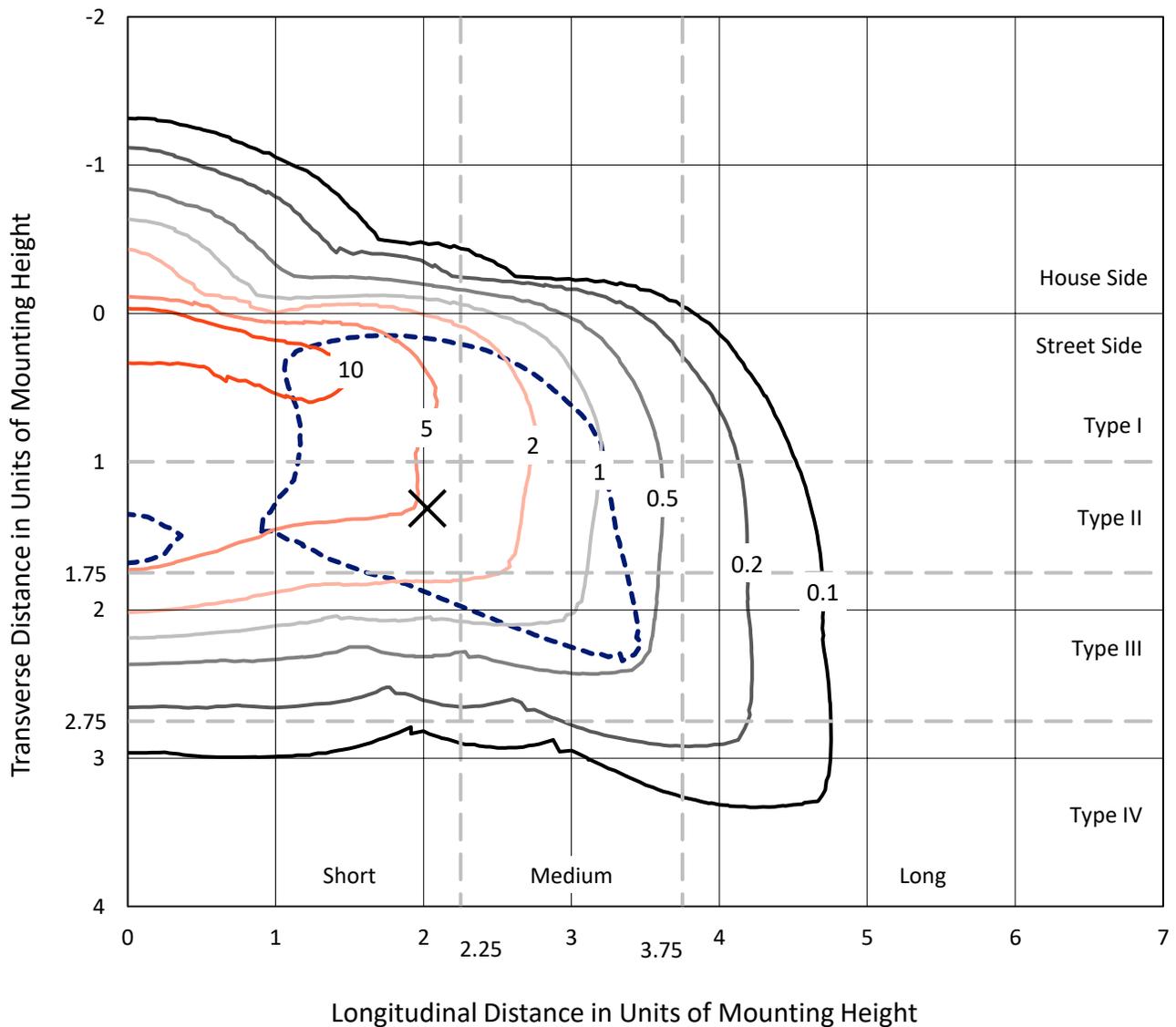
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

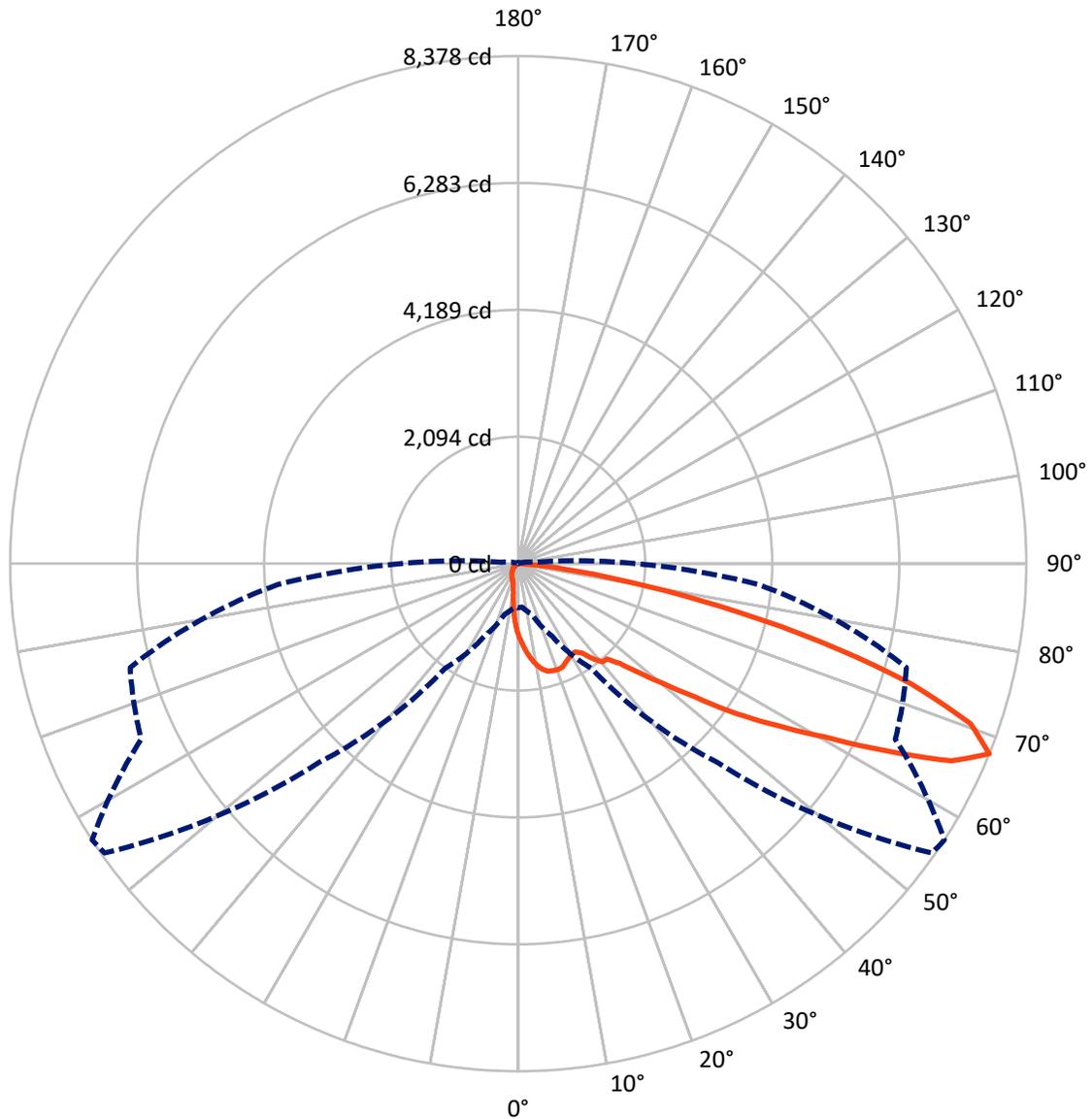
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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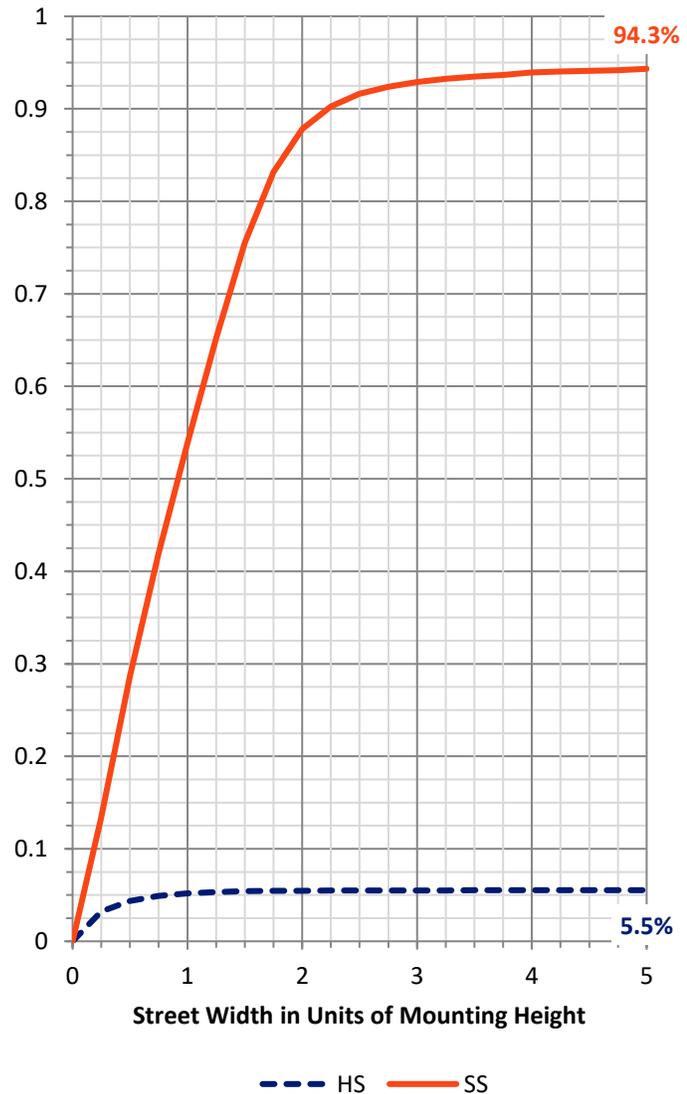
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	417.7	0.0	417.7
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	7087.3	0.0	7087.3
	% Fixture	94.4	0.0	94.4
Total	Lumens	7505.0	0.0	7505.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	1.4
10°-20°	279.2	3.7
20°-30°	408.6	5.4
30°-40°	614.4	8.2
40°-50°	1002.4	13.4
50°-60°	1897.2	25.3
60°-70°	2168.0	28.9
70°-80°	946.3	12.6
80°-90°	81.7	1.1
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°	7505.0	100.0
0°-180°	7505.0	100.0



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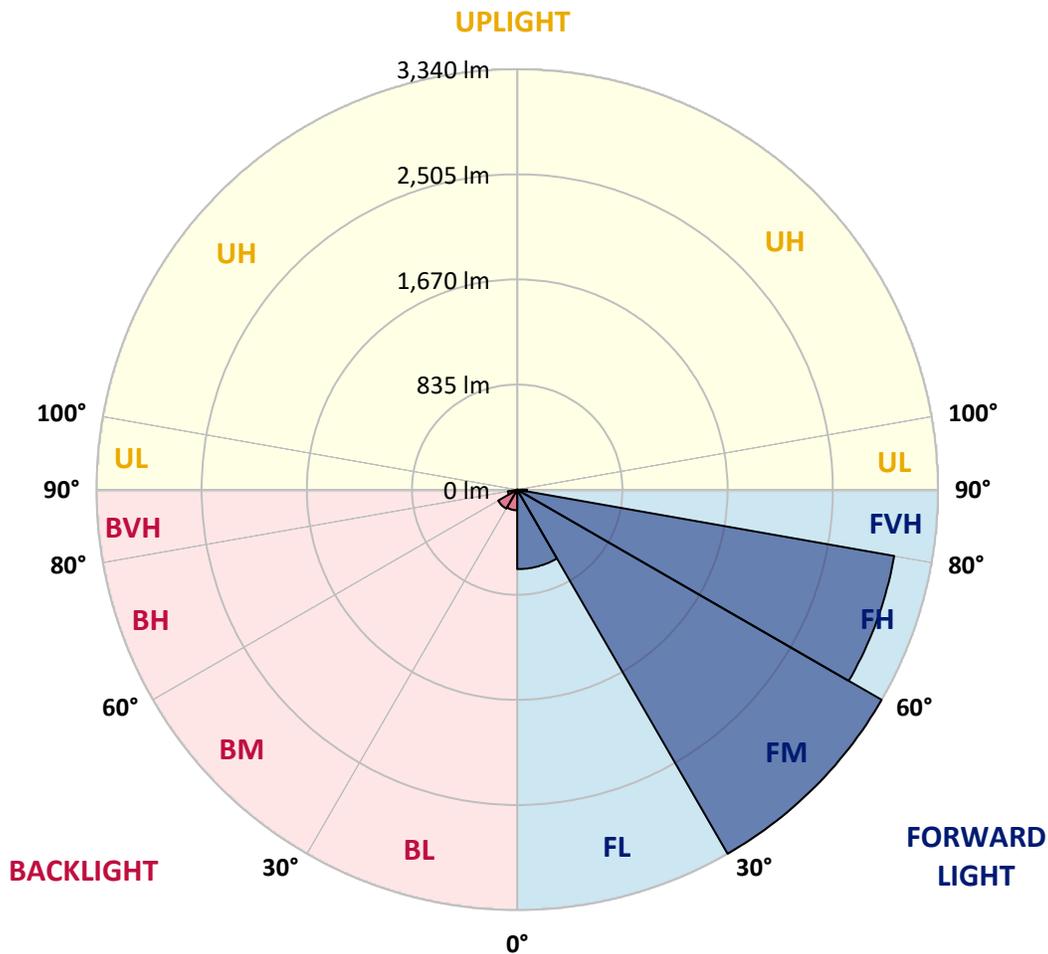
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	631.1	8.4			
FM (30°-60°)	3339.9	44.5			
FH (60°-80°)	3038.6	40.5			G2/5000
FVH (80°-90°)	77.7	1.0			G1/100
BL (0°-30°)	163.9	2.2	B1/500		
BM (30°-60°)	174.0	2.3	B0/220		
BH (60°-80°)	75.7	1.0	B0/110		G0/110
BVH (80°-90°)	4.1	0.1			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1194.0	1194.0	1194.0	1194.0	1194.0	1194.0	1194.0	1194.0	1194.0	1194.0	1194.0
2.5°	1409.5	1421.2	1425.8	1406.0	1387.4	1373.4	1345.4	1328.0	1301.2	1268.6	1223.1
5°	1616.9	1615.7	1604.0	1588.9	1580.7	1536.5	1489.9	1471.2	1428.1	1346.6	1258.1
7.5°	1694.9	1701.9	1710.0	1700.7	1686.7	1663.4	1608.7	1594.7	1531.8	1425.8	1301.2
10°	1658.8	1670.4	1684.4	1708.9	1755.5	1763.6	1721.7	1706.5	1630.8	1514.3	1337.3
12.5°	1492.2	1509.7	1533.0	1612.2	1720.5	1788.1	1797.4	1792.7	1728.7	1593.6	1362.9
15°	1270.9	1252.2	1312.8	1422.3	1600.5	1755.5	1839.3	1842.8	1810.2	1668.1	1390.9
17.5°	1104.3	1121.8	1148.6	1231.3	1416.5	1639.0	1833.5	1855.7	1870.8	1747.3	1423.5
20°	1076.3	1077.5	1089.2	1134.6	1231.3	1499.2	1813.7	1866.1	1945.3	1825.4	1437.5
22.5°	1103.1	1096.2	1102.0	1111.3	1171.9	1357.1	1771.8	1856.8	1989.6	1922.0	1466.6
25°	1138.1	1146.2	1135.8	1124.1	1159.1	1293.0	1722.9	1810.2	2056.0	2008.2	1479.4
27.5°	1235.9	1240.6	1212.6	1170.7	1183.5	1263.9	1647.1	1772.9	2156.2	2104.9	1500.4
30°	1395.5	1390.9	1332.6	1263.9	1234.8	1282.5	1599.4	1732.2	2209.8	2179.5	1489.9
32.5°	1514.3	1505.0	1447.9	1376.9	1325.6	1353.6	1599.4	1736.8	2318.1	2310.0	1509.7
35°	1621.5	1613.4	1542.3	1485.2	1441.0	1466.6	1689.1	1812.6	2473.0	2552.2	1579.6
37.5°	1738.0	1715.9	1660.0	1560.9	1547.0	1646.0	1882.4	1985.0	2718.8	2777.1	1581.9
40°	1922.0	1903.4	1813.7	1711.2	1635.5	1779.9	2033.9	2131.7	2892.4	2957.6	1572.6
42.5°	2174.8	2130.6	2019.9	1870.8	1749.6	1852.2	2051.4	2152.7	3024.0	3238.4	1662.3
45°	2449.7	2436.9	2283.2	2091.0	1962.8	1950.0	2236.6	2348.4	3316.4	3691.5	1856.8
47.5°	2847.0	2746.8	2544.1	2339.1	2229.6	2143.4	2520.8	2690.9	3672.9	4221.5	2146.9
50°	3265.2	3206.9	2898.2	2615.2	2481.2	2449.7	2970.4	3124.2	4129.5	4817.9	2630.3
52.5°	3978.1	3844.1	3427.1	3070.6	2838.8	2808.5	3459.7	3656.6	4644.4	5529.7	3118.4
55°	4458.0	4375.3	3955.9	3686.8	3382.8	3290.8	4152.8	4368.3	5274.6	6150.6	3606.5
57.5°	4611.8	4510.4	4133.0	4067.8	3997.9	4050.3	4871.5	5050.9	5711.4	6635.1	4038.6
60°	3995.5	3992.0	3776.5	3946.6	4292.6	4898.3	5720.7	5799.9	6065.5	6932.2	4307.7
62.5°	2873.8	2864.4	2907.5	3329.2	3974.6	5472.6	6889.1	6800.6	6373.0	7097.6	4453.3
65°	1489.9	1496.9	1713.5	2269.2	3197.6	5428.3	7958.4	7846.6	6562.9	6996.3	4350.8
67.5°	726.9	721.1	862.0	1319.8	2111.9	4635.0	8325.4	8377.8	6861.1	6624.7	3980.4
70°	362.3	366.9	469.4	696.6	1153.2	3329.2	7688.2	7910.7	6586.2	5833.7	3389.8
72.5°	255.1	258.6	319.2	413.5	539.3	2021.1	6381.2	6764.4	5497.1	4640.9	2389.2
75°	182.9	188.7	234.1	308.7	299.4	1014.6	4932.1	5159.2	3985.0	2865.6	1266.2
77.5°	132.8	141.0	182.9	237.6	207.3	426.3	3415.4	3409.6	2248.2	1361.7	512.5
80°	87.4	93.2	135.1	175.9	147.9	198.0	2001.3	1884.8	994.8	521.9	186.4
82.5°	48.9	51.3	90.9	122.3	102.5	93.2	894.6	824.7	336.6	191.0	87.4
85°	3.5	5.8	53.6	76.9	54.7	46.6	250.4	227.2	108.3	87.4	46.6
87.5°	0.0	0.0	7.0	14.0	9.3	7.0	60.6	52.4	32.6	51.3	23.3
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°	1194.0	1194.0	1194.0	1194.0	1194.0	1194.0	1194.0	1194.0	1194.0	1194.0	1194.0
2.5°	1204.5	1171.9	1122.9	1075.2	1028.6	986.7	956.4	926.1	913.3	884.1	934.2
5°	1211.5	1153.2	1036.7	923.7	825.9	721.1	652.3	603.4	578.9	556.8	558.0
7.5°	1218.5	1129.9	950.5	759.5	618.6	507.9	446.1	424.0	414.7	403.0	403.0
10°	1210.3	1092.7	827.1	597.6	454.3	394.9	361.1	353.0	357.6	356.5	359.9
12.5°	1210.3	1048.4	701.3	466.0	372.8	337.8	328.5	327.3	334.3	339.0	341.3
15°	1195.2	980.8	575.4	382.1	326.2	313.4	309.9	309.9	314.5	319.2	318.0
17.5°	1182.4	913.3	470.6	328.5	298.2	294.7	292.4	290.1	295.9	300.5	301.7
20°	1150.9	818.9	387.9	295.9	279.6	274.9	273.7	271.4	277.2	281.9	285.4
22.5°	1105.5	711.7	332.0	271.4	263.3	257.4	253.9	255.1	260.9	265.6	263.3
25°	1044.9	617.4	291.2	253.9	242.3	238.8	234.1	236.5	237.6	242.3	245.8
27.5°	978.5	525.4	264.4	240.0	228.3	221.3	215.5	214.3	215.5	221.3	219.0
30°	880.6	445.0	245.8	223.7	210.8	210.5	194.5	191.0	189.9	191.0	192.2
32.5°	806.1	391.4	233.0	210.8	194.5	182.9	174.7	167.7	165.4	163.1	163.1
35°	758.3	362.3	220.2	193.4	178.2	166.6	153.8	145.6	141.0	138.6	139.8
37.5°	655.8	312.2	205.0	180.6	163.1	149.1	136.3	123.5	120.0	122.3	122.3
40°	569.6	267.9	191.0	165.4	145.6	132.8	118.8	103.7	101.3	108.3	109.5
42.5°	537.0	248.1	178.2	151.4	130.5	120.0	101.3	89.7	89.7	95.5	96.7
45°	576.6	242.3	166.6	138.6	117.7	106.0	87.4	76.9	76.9	82.7	83.9
47.5°	702.4	251.6	154.9	125.8	108.3	93.2	72.2	67.6	67.6	69.9	71.1
50°	969.2	281.9	143.3	113.0	99.0	79.2	62.9	58.2	57.1	58.2	58.2
52.5°	1308.2	342.5	130.5	101.3	87.4	66.4	54.7	50.1	46.6	46.6	45.4
55°	1650.6	407.7	117.7	89.7	75.7	57.1	46.6	41.9	36.1	33.8	32.6
57.5°	1952.3	460.1	102.5	79.2	65.2	48.9	40.8	31.5	23.3	18.6	18.6
60°	2139.9	474.1	88.5	68.7	53.6	41.9	32.6	21.0	11.6	9.3	8.2
62.5°	2174.8	429.8	75.7	58.2	45.4	34.9	23.3	11.6	4.7	1.2	1.2
65°	2080.5	339.0	65.2	48.9	37.3	28.0	15.1	5.8	0.0	0.0	0.0
67.5°	1922.0	266.8	54.7	40.8	31.5	22.1	9.3	1.2	0.0	0.0	0.0
70°	1676.3	213.2	47.8	34.9	26.8	18.6	5.8	0.0	0.0	0.0	0.0
72.5°	1234.8	141.0	41.9	31.5	23.3	14.0	3.5	0.0	0.0	0.0	0.0
75°	675.6	89.7	38.4	29.1	22.1	11.6	2.3	0.0	0.0	0.0	0.0
77.5°	273.7	62.9	33.8	28.0	22.1	11.6	2.3	0.0	0.0	0.0	0.0
80°	103.7	44.3	29.1	24.5	21.0	11.6	2.3	0.0	0.0	0.0	0.0
82.5°	54.7	36.1	28.0	24.5	19.8	10.5	1.2	0.0	0.0	0.0	0.0
85°	26.8	11.6	14.0	14.0	16.3	9.3	1.2	0.0	0.0	0.0	0.0
87.5°	5.8	0.0	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)