

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: P1209341

Luminaire Tested: UPW-SA2-110-750-U-SL4-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-6)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-110-750-U-SL4-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10755 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

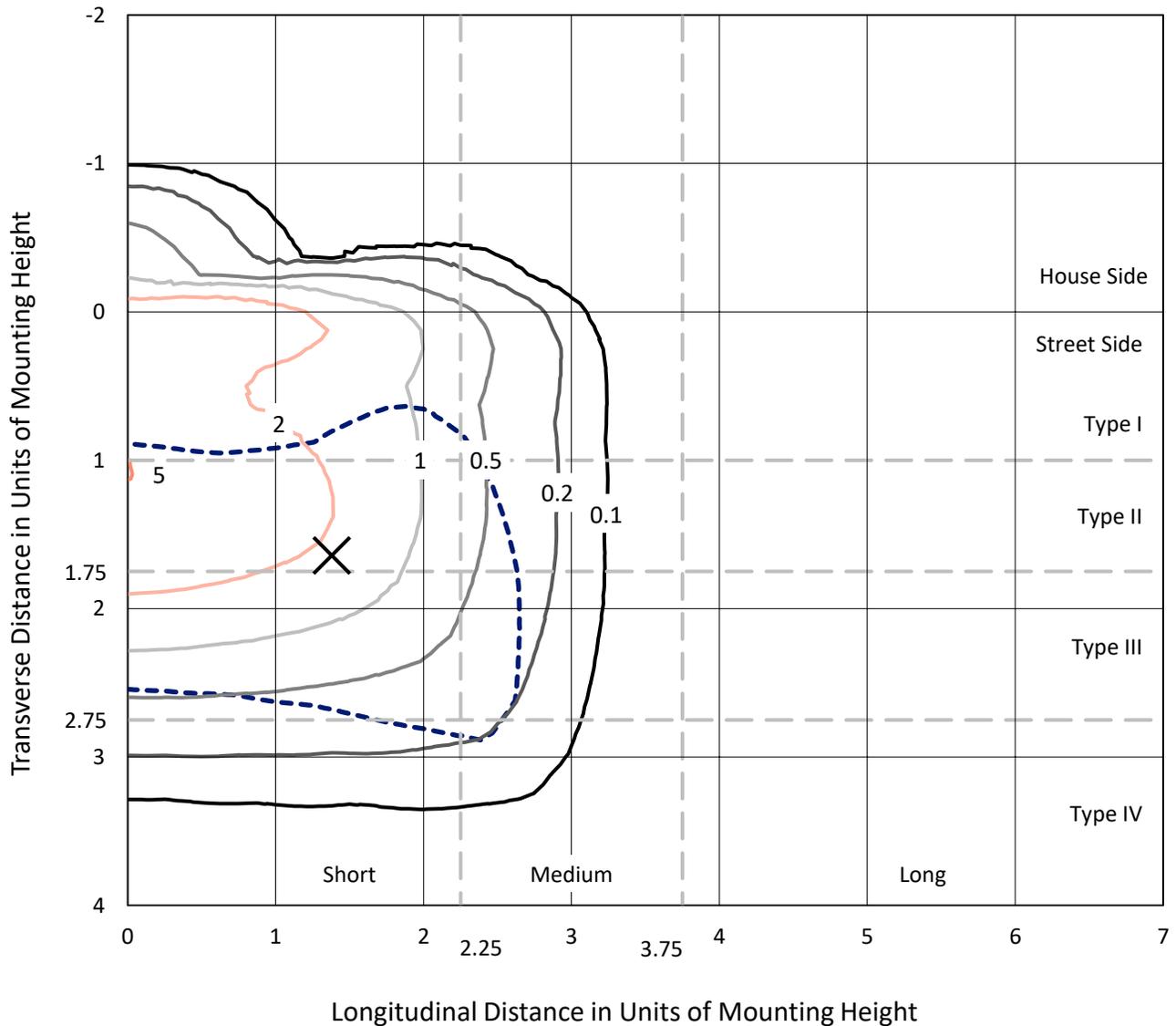
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

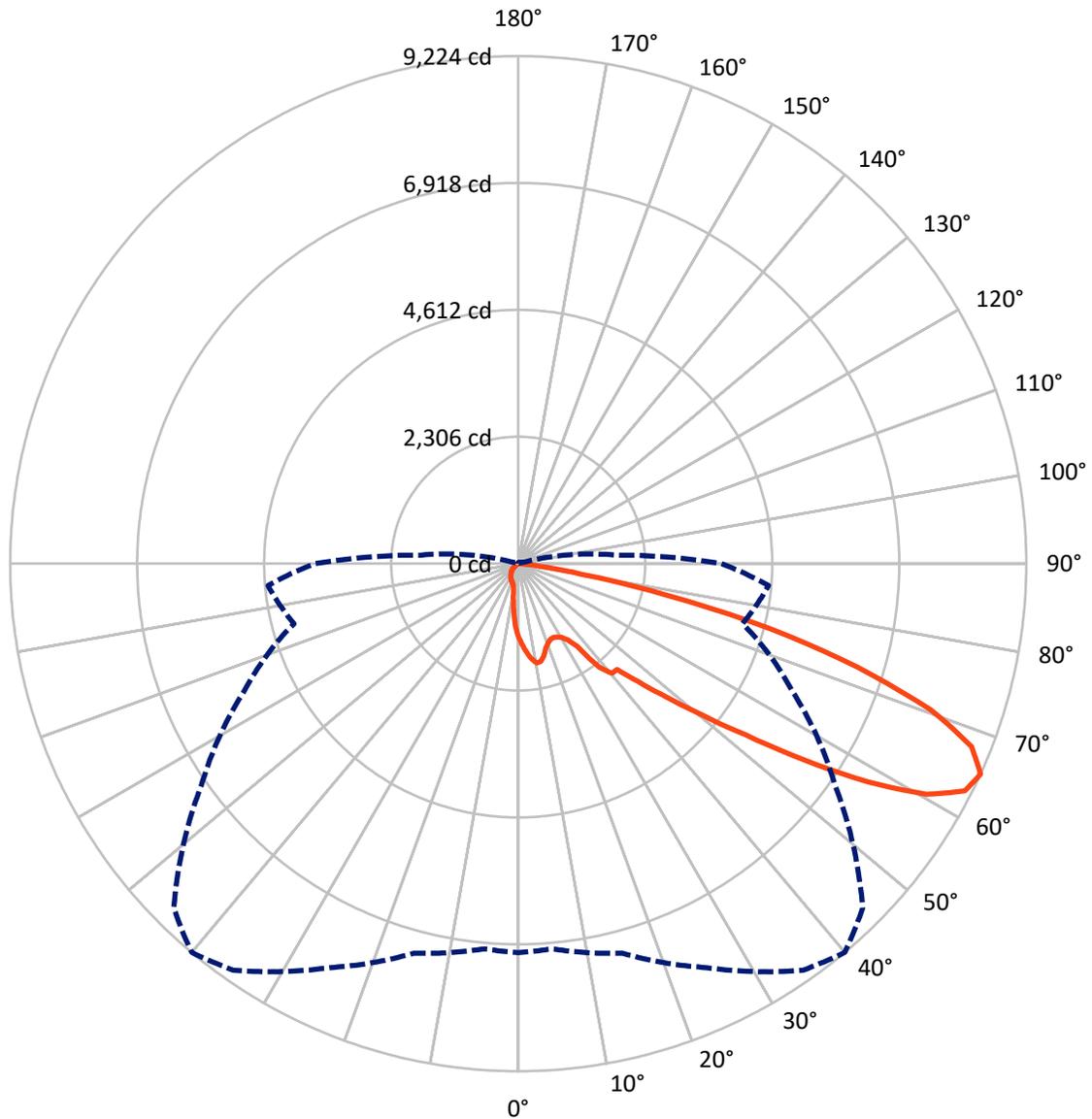
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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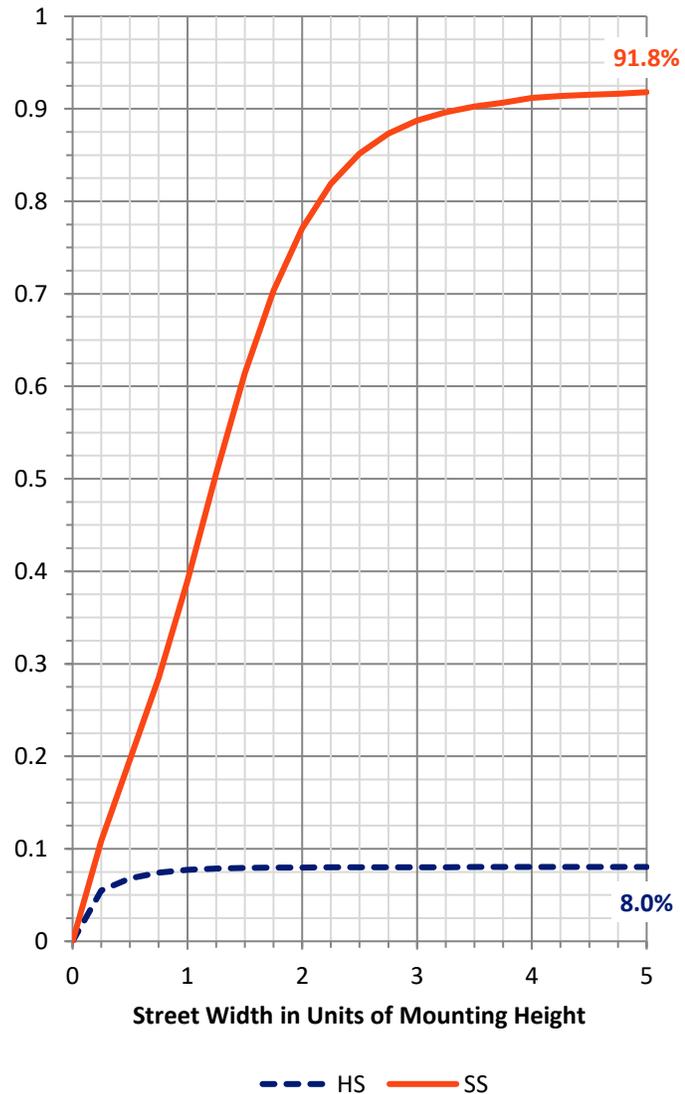
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	870.4	0.0	870.4
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	9884.6	0.0	9884.6
	% Fixture	91.9	0.0	91.9
Total	Lumens	10755.0	0.0	10755.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.2	1.1
10°-20°	346.4	3.2
20°-30°	540.7	5.0
30°-40°	895.9	8.3
40°-50°	1519.2	14.1
50°-60°	2676.0	24.9
60°-70°	3333.1	31.0
70°-80°	1252.6	11.6
80°-90°	67.8	0.6
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°	10755.0	100.0
0°-180°	10755.0	100.0



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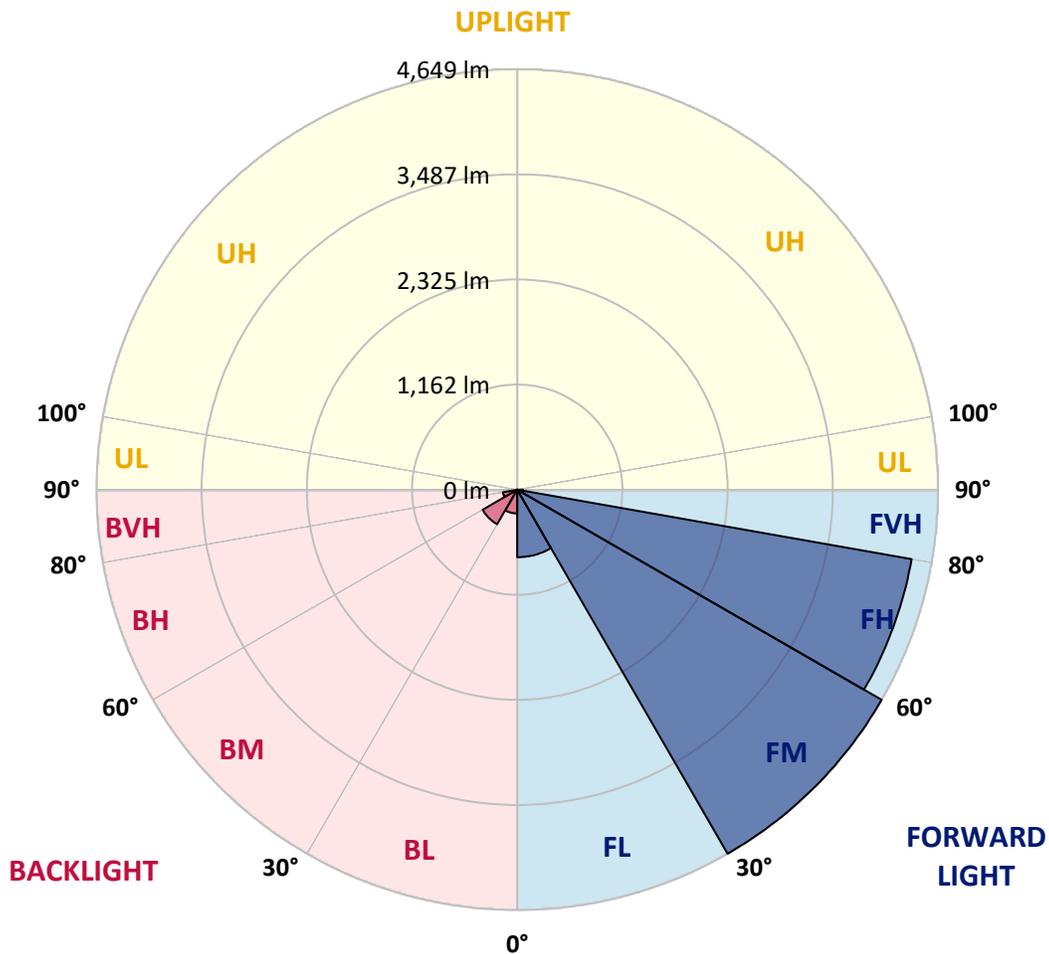
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	746.9	6.9			
FM	(30°-60°)	4649.2	43.2			
FH	(60°-80°)	4425.1	41.1			G2/5000
FVH	(80°-90°)	63.4	0.6			G1/100
BL	(0°-30°)	263.4	2.4	B1/500		
BM	(30°-60°)	442.0	4.1	B1/1000		
BH	(60°-80°)	160.6	1.5	B1/500		G1/500
BVH	(80°-90°)	4.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1
2.5°	1520.5	1507.8	1504.6	1498.3	1482.5	1480.9	1477.7	1449.2	1428.6	1408.0	1376.4
5°	1667.8	1658.3	1650.4	1648.8	1637.7	1623.4	1620.3	1580.7	1542.7	1499.9	1433.4
7.5°	1775.5	1766.0	1766.0	1766.0	1753.3	1748.6	1748.6	1707.4	1671.0	1606.0	1515.7
10°	1797.7	1791.3	1797.7	1813.5	1829.3	1835.7	1842.0	1832.5	1802.4	1731.1	1621.9
12.5°	1742.2	1735.9	1742.2	1766.0	1796.1	1826.2	1865.8	1916.4	1927.5	1878.4	1735.9
15°	1686.8	1678.9	1666.2	1661.5	1693.1	1739.1	1792.9	1930.7	2032.1	2017.8	1867.3
17.5°	1651.9	1650.4	1620.3	1579.1	1582.3	1617.1	1686.8	1873.7	2082.8	2142.9	1989.3
20°	1618.7	1613.9	1580.7	1522.1	1509.4	1541.1	1599.7	1794.5	2073.2	2258.6	2116.0
22.5°	1601.3	1594.9	1550.6	1480.9	1468.2	1496.7	1549.0	1709.0	2025.7	2326.7	2236.4
25°	1621.9	1617.1	1553.7	1473.0	1461.9	1485.6	1531.6	1663.0	1964.0	2352.0	2333.0
27.5°	1691.5	1682.0	1598.1	1501.5	1487.2	1509.4	1547.4	1647.2	1910.1	2342.5	2410.6
30°	1929.1	1892.7	1767.6	1587.0	1542.7	1556.9	1587.0	1667.8	1875.3	2329.8	2497.7
32.5°	2390.0	2371.0	2161.9	1834.1	1666.2	1653.5	1674.1	1731.1	1899.0	2396.4	2659.3
35°	3191.4	3167.7	2871.5	2350.4	1916.4	1846.8	1834.1	1883.2	2079.6	2413.8	2686.2
37.5°	3815.5	3793.3	3544.6	3153.4	2618.1	2391.6	2244.3	2223.7	2090.7	2333.0	2719.5
40°	4119.6	4081.6	3717.3	3189.9	2790.7	2621.3	2458.1	2125.5	1976.6	2285.5	2805.0
42.5°	4854.5	4749.9	4320.7	3660.3	2939.6	2629.2	2340.9	1989.3	2017.8	2334.6	2938.0
45°	5671.7	5678.1	5158.6	4281.1	3427.4	3056.8	2695.7	2152.4	2165.1	2459.7	3113.8
47.5°	6614.1	6504.8	5955.2	5068.3	4037.2	3617.5	3213.6	2435.9	2374.2	2660.9	3349.8
50°	7299.9	7230.2	6802.6	5966.3	4789.5	4312.8	3782.2	2862.0	2716.3	2892.1	3589.0
52.5°	7678.5	7662.6	7448.8	6778.8	5720.8	5166.5	4472.8	3360.9	3134.4	3147.1	3766.4
55°	7976.2	7933.5	7924.0	7596.1	6774.1	6286.3	5383.5	4038.8	3665.0	3395.8	3943.8
57.5°	8275.6	8226.5	8267.7	8209.1	7906.5	7486.8	6476.3	4775.3	4127.5	3660.3	4156.0
60°	8280.3	8231.2	8346.8	8593.9	8728.6	8511.6	7585.0	5579.9	4637.5	3931.1	4444.3
62.5°	7898.6	7849.5	8047.5	8562.2	9124.5	9097.6	8445.0	6351.2	5145.9	4201.9	4683.4
65°	7067.1	7027.5	7330.0	8101.4	9018.4	9224.3	8845.8	7021.2	5491.2	4214.6	4559.9
67.5°	5389.8	5461.1	5974.3	7038.6	8467.2	8880.6	8788.7	7197.0	5321.7	3831.3	4089.5
70°	3478.1	3608.0	4181.3	5437.3	7204.9	7943.0	7990.5	6389.2	4453.8	3115.4	3072.7
72.5°	1851.5	1875.3	2404.3	3517.7	5478.5	6447.8	6519.1	4810.1	3047.3	2070.1	1677.3
75°	810.9	875.9	1176.8	1978.2	3650.8	4724.6	4512.4	2882.6	1572.8	947.1	649.4
77.5°	291.4	315.2	457.7	967.7	2060.6	2765.4	2576.9	1370.0	635.1	419.7	190.1
80°	141.0	142.5	183.7	369.0	861.6	1165.7	1013.7	484.7	289.8	236.0	74.4
82.5°	47.5	58.6	104.5	145.7	319.9	397.5	293.0	180.6	172.6	179.0	52.3
85°	0.0	1.6	52.3	79.2	82.4	93.4	74.4	79.2	106.1	107.7	17.4
87.5°	0.0	0.0	0.0	15.8	17.4	17.4	9.5	19.0	44.3	52.3	3.2
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°	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1
2.5°	1357.4	1338.3	1300.3	1268.7	1225.9	1195.8	1164.1	1149.9	1140.4	1100.8	1097.6
5°	1396.9	1354.2	1267.1	1172.0	1078.6	986.7	899.6	850.5	807.8	790.3	769.7
7.5°	1455.6	1390.6	1237.0	1073.8	898.0	755.5	658.9	605.0	560.7	552.8	546.4
10°	1536.3	1438.1	1211.6	947.1	700.1	565.4	486.2	451.4	437.1	434.0	429.2
12.5°	1625.0	1498.3	1183.1	799.8	548.0	434.0	400.7	400.7	408.6	411.8	411.8
15°	1739.1	1568.0	1129.3	668.4	440.3	380.1	378.5	384.9	392.8	396.0	397.5
17.5°	1838.8	1640.9	1061.2	548.0	378.5	361.1	364.3	369.0	377.0	383.3	383.3
20°	1946.5	1707.4	991.5	451.4	348.4	343.7	346.9	353.2	362.7	367.5	369.0
22.5°	2041.6	1759.6	910.7	388.0	327.9	327.9	332.6	338.9	350.0	357.9	357.9
25°	2120.8	1800.8	823.6	345.3	308.8	310.4	315.2	324.7	335.8	343.7	345.3
27.5°	2182.5	1821.4	723.8	310.4	289.8	289.8	297.8	308.8	323.1	332.6	332.6
30°	2261.7	1853.1	647.8	285.1	269.3	269.3	275.6	289.8	308.8	321.5	321.5
32.5°	2380.5	1908.5	567.0	262.9	250.2	250.2	256.6	269.3	288.3	304.1	307.3
35°	2399.5	1883.2	484.7	245.5	232.8	231.2	234.4	245.5	261.3	272.4	277.2
37.5°	2429.6	1883.2	407.0	226.5	215.4	213.8	215.4	220.2	226.5	229.7	228.1
40°	2496.1	1895.9	342.1	210.7	199.6	196.4	194.8	193.2	186.9	179.0	177.4
42.5°	2600.7	1929.1	286.7	193.2	182.1	179.0	174.2	163.1	148.9	137.8	137.8
45°	2725.8	1959.2	240.7	179.0	166.3	163.1	148.9	131.5	114.0	106.1	106.1
47.5°	2879.4	1995.6	204.3	166.3	153.6	145.7	122.0	101.4	87.1	83.9	83.9
50°	3056.8	2017.8	172.6	152.0	141.0	126.7	96.6	79.2	68.1	66.5	66.5
52.5°	3180.4	2016.2	147.3	139.4	128.3	106.1	77.6	63.4	55.4	52.3	52.3
55°	3299.1	1994.1	123.5	123.5	110.9	85.5	63.4	52.3	44.3	41.2	39.6
57.5°	3443.3	1983.0	106.1	102.9	90.3	69.7	52.3	42.8	34.8	28.5	26.9
60°	3672.9	2002.0	88.7	82.4	71.3	55.4	42.8	33.3	25.3	17.4	15.8
62.5°	3826.6	1983.0	72.9	66.5	57.0	44.3	31.7	23.8	14.3	9.5	7.9
65°	3684.0	1770.7	61.8	53.9	45.9	34.8	23.8	15.8	6.3	1.6	0.0
67.5°	3185.1	1414.4	52.3	44.3	36.4	26.9	17.4	9.5	1.6	0.0	0.0
70°	2315.6	953.5	45.9	36.4	28.5	22.2	12.7	4.8	0.0	0.0	0.0
72.5°	1211.6	448.2	41.2	33.3	25.3	17.4	9.5	3.2	0.0	0.0	0.0
75°	424.5	161.6	38.0	31.7	22.2	14.3	7.9	3.2	0.0	0.0	0.0
77.5°	133.0	72.9	38.0	33.3	23.8	14.3	7.9	3.2	0.0	0.0	0.0
80°	60.2	47.5	34.8	31.7	22.2	14.3	7.9	1.6	0.0	0.0	0.0
82.5°	42.8	38.0	33.3	28.5	20.6	12.7	6.3	1.6	0.0	0.0	0.0
85°	15.8	12.7	12.7	15.8	14.3	7.9	3.2	0.0	0.0	0.0	0.0
87.5°	1.6	1.6	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)