

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: P1209069

Luminaire Tested: UPW-SA2-090-740-U-SL3-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209069
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-SA2-090-740-U-SL3-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 4000K, 800mA 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: 8249 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

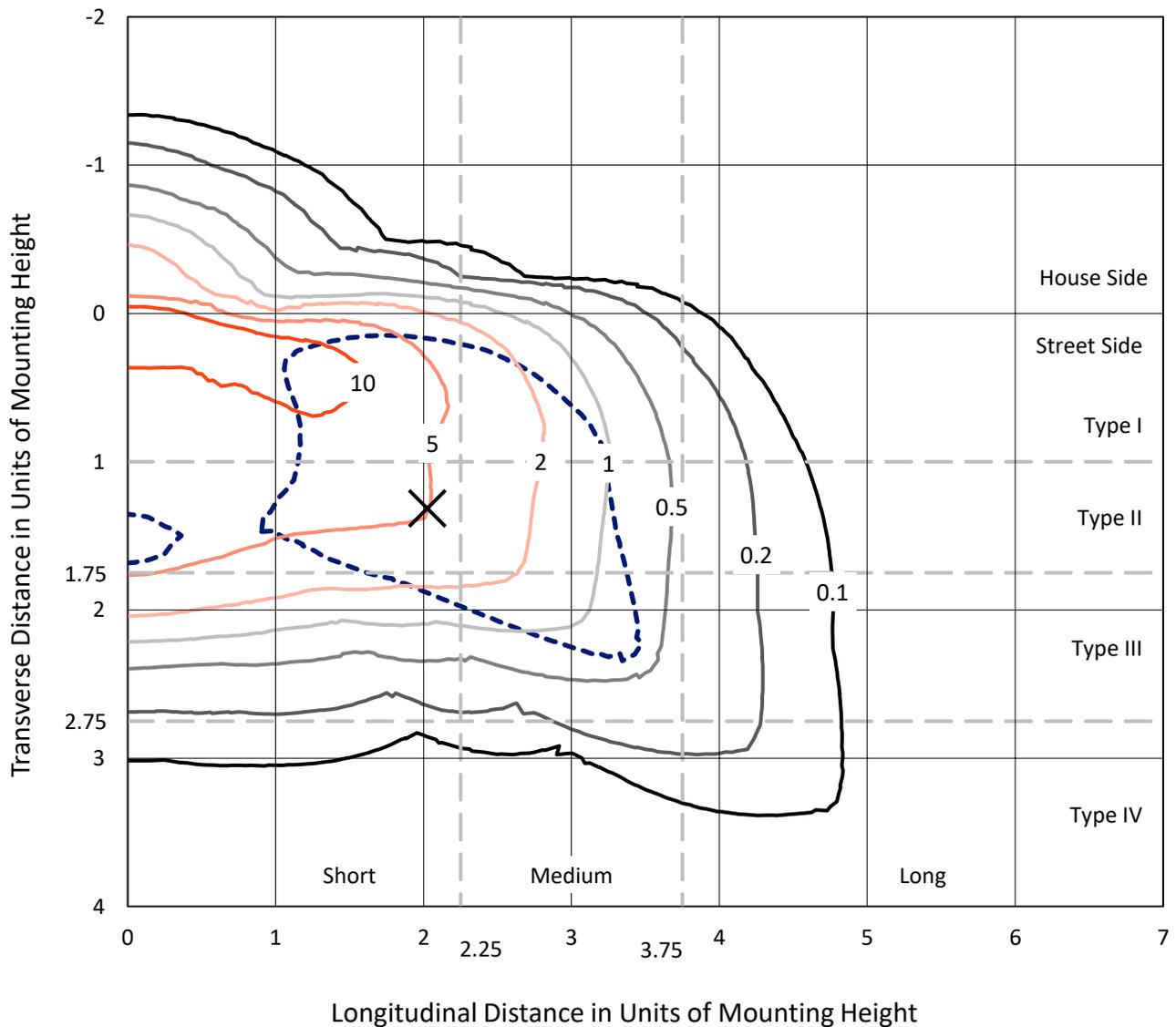
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

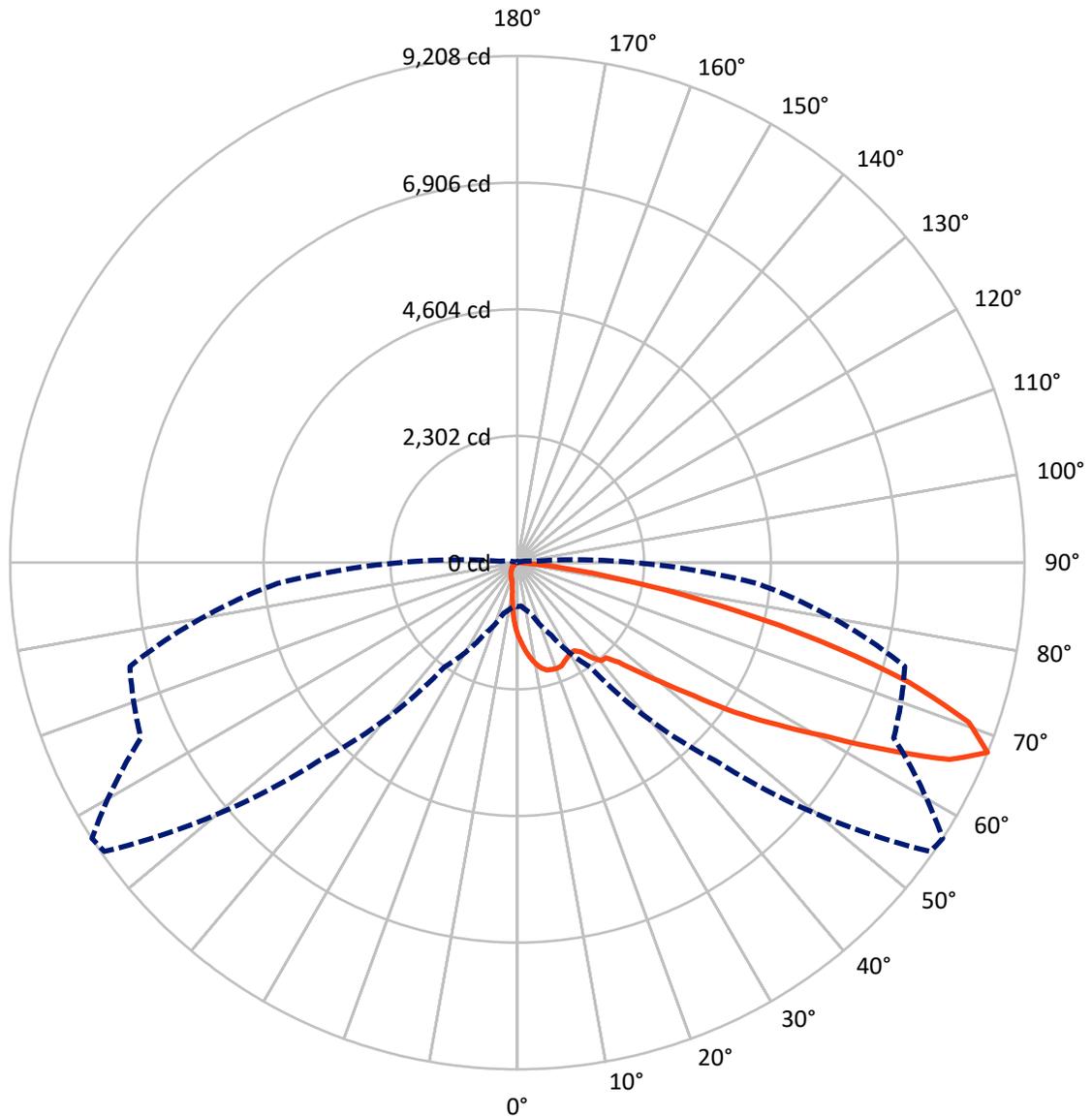
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.5 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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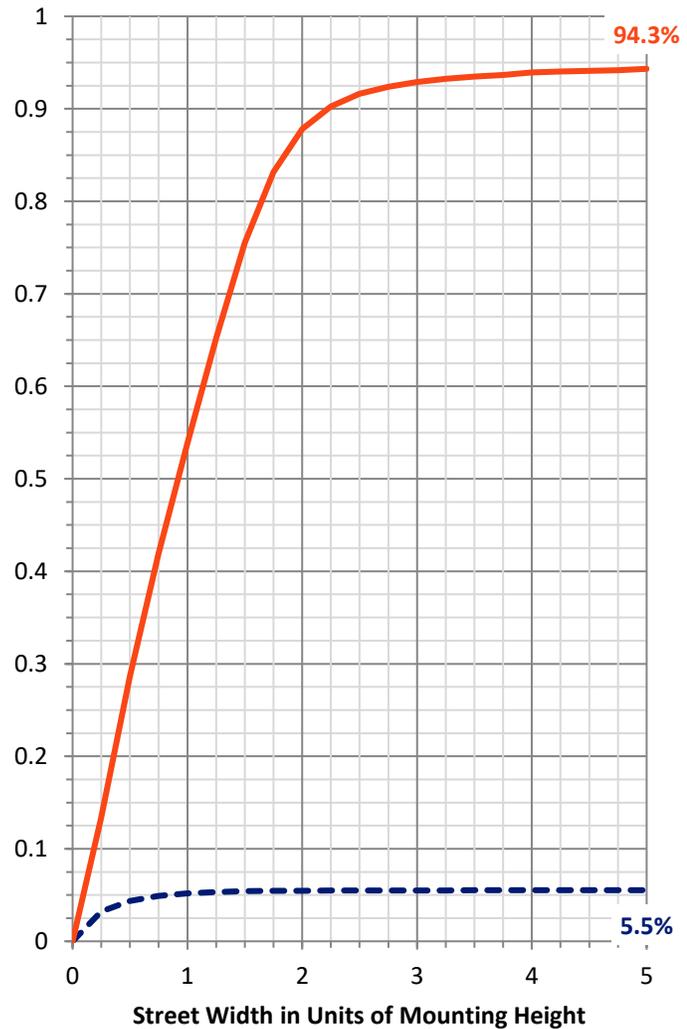
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	459.1	0.0	459.1
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	7789.9	0.0	7789.9
	% Fixture	94.4	0.0	94.4
Total	Lumens	8249.0	0.0	8249.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	1.4
10°-20°	306.8	3.7
20°-30°	449.1	5.4
30°-40°	675.3	8.2
40°-50°	1101.7	13.4
50°-60°	2085.2	25.3
60°-70°	2383.0	28.9
70°-80°	1040.1	12.6
80°-90°	89.8	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°	8249.0	100.0
0°-180°	8249.0	100.0



--- HS — SS

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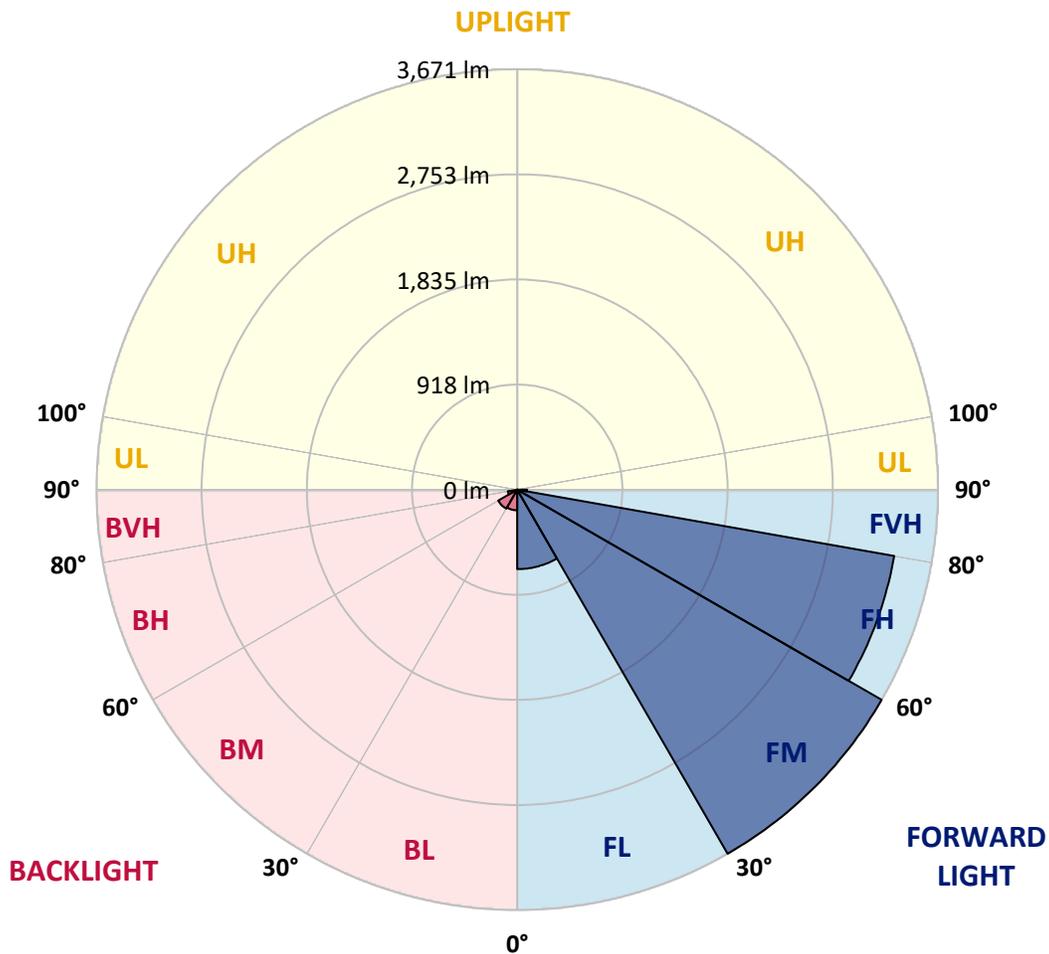
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	693.7	8.4			
FM	(30°-60°)	3671.0	44.5			
FH	(60°-80°)	3339.9	40.5			G2/5000
FVH	(80°-90°)	85.4	1.0			G1/100
BL	(0°-30°)	180.2	2.2	B1/500		
BM	(30°-60°)	191.3	2.3	B0/220		
BH	(60°-80°)	83.2	1.0	B0/110		G0/110
BVH	(80°-90°)	4.5	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°	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4
2.5°	1549.2	1562.0	1567.2	1545.4	1524.9	1509.5	1478.8	1459.6	1430.2	1394.3	1344.4
5°	1777.1	1775.9	1763.1	1746.4	1737.4	1688.8	1637.6	1617.1	1569.7	1480.1	1382.8
7.5°	1862.9	1870.6	1879.6	1869.3	1854.0	1828.3	1768.2	1752.8	1683.7	1567.2	1430.2
10°	1823.2	1836.0	1851.4	1878.3	1929.5	1938.5	1892.4	1875.7	1792.5	1664.5	1469.8
12.5°	1640.1	1659.3	1684.9	1772.0	1891.1	1965.3	1975.6	1970.5	1900.0	1751.5	1498.0
15°	1396.9	1376.4	1443.0	1563.3	1759.2	1929.5	2021.7	2025.5	1989.7	1833.5	1528.7
17.5°	1213.8	1233.0	1262.4	1353.3	1556.9	1801.5	2015.3	2039.6	2056.3	1920.5	1564.6
20°	1183.0	1184.3	1197.1	1247.1	1353.3	1647.8	1993.5	2051.1	2138.2	2006.3	1580.0
22.5°	1212.5	1204.8	1211.2	1221.5	1288.0	1491.6	1947.4	2040.9	2186.8	2112.6	1612.0
25°	1250.9	1259.9	1248.3	1235.5	1274.0	1421.2	1893.6	1989.7	2259.8	2207.3	1626.1
27.5°	1358.5	1363.6	1332.9	1286.8	1300.8	1389.2	1810.4	1948.7	2369.9	2313.6	1649.1
30°	1533.9	1528.7	1464.7	1389.2	1357.2	1409.7	1757.9	1903.9	2428.8	2395.5	1637.6
32.5°	1664.5	1654.2	1591.5	1513.4	1457.0	1487.8	1757.9	1909.0	2547.9	2538.9	1659.3
35°	1782.3	1773.3	1695.2	1632.5	1583.8	1612.0	1856.5	1992.2	2718.2	2805.3	1736.2
37.5°	1910.3	1886.0	1824.5	1715.7	1700.3	1809.1	2069.1	2181.7	2988.4	3052.4	1738.7
40°	2112.6	2092.1	1993.5	1880.8	1797.6	1956.4	2235.5	2343.1	3179.1	3250.8	1728.5
42.5°	2390.4	2341.8	2220.1	2056.3	1923.1	2035.8	2254.7	2366.1	3323.8	3559.4	1827.1
45°	2692.6	2678.5	2509.5	2298.2	2157.4	2143.3	2458.3	2581.2	3645.2	4057.5	2040.9
47.5°	3129.2	3019.1	2796.3	2571.0	2450.6	2355.9	2770.7	2957.6	4037.0	4640.0	2359.7
50°	3588.8	3524.8	3185.5	2874.4	2727.2	2692.6	3264.9	3433.9	4538.9	5295.6	2891.0
52.5°	4372.4	4225.2	3766.8	3375.0	3120.2	3086.9	3802.7	4019.0	5104.8	6077.9	3427.5
55°	4899.9	4809.0	4348.1	4052.3	3718.2	3617.0	4564.5	4801.3	5797.5	6760.3	3964.0
57.5°	5068.9	4957.5	4542.7	4471.0	4394.2	4451.8	5354.5	5551.6	6277.6	7292.9	4439.0
60°	4391.6	4387.8	4150.9	4337.8	4718.1	5383.9	6287.8	6374.9	6666.8	7619.4	4734.8
62.5°	3158.6	3148.4	3195.8	3659.3	4368.6	6015.1	7572.0	7474.7	7004.8	7801.2	4894.8
65°	1637.6	1645.3	1883.4	2494.1	3514.6	5966.5	8747.4	8624.5	7213.5	7689.8	4782.1
67.5°	798.9	792.5	947.5	1450.6	2321.3	5094.5	9150.7	9208.3	7541.3	7281.4	4375.0
70°	398.2	403.3	516.0	765.7	1267.6	3659.3	8450.4	8694.9	7239.1	6412.0	3725.8
72.5°	280.4	284.2	350.8	454.5	592.8	2221.4	7013.8	7435.0	6042.0	5100.9	2626.0
75°	201.0	207.4	257.4	339.3	329.1	1115.2	5421.0	5670.7	4380.1	3149.7	1391.7
77.5°	146.0	154.9	201.0	261.2	227.9	468.6	3754.0	3747.6	2471.1	1496.7	563.4
80°	96.0	102.4	148.5	193.3	162.6	217.7	2199.7	2071.6	1093.4	573.6	204.9
82.5°	53.8	56.3	99.9	134.4	112.7	102.4	983.3	906.5	370.0	210.0	96.0
85°	3.8	6.4	58.9	84.5	60.2	51.2	275.3	249.7	119.1	96.0	51.2
87.5°	0.0	0.0	7.7	15.4	10.2	7.7	66.6	57.6	35.8	56.3	25.6
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°	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4
2.5°	1323.9	1288.0	1234.3	1181.8	1130.6	1084.5	1051.2	1017.9	1003.8	971.8	1026.8
5°	1331.6	1267.6	1139.5	1015.3	907.8	792.5	717.0	663.2	636.3	612.0	613.3
7.5°	1339.3	1241.9	1044.8	834.8	679.9	558.2	490.4	466.0	455.8	443.0	443.0
10°	1330.3	1201.0	909.1	656.8	499.3	434.0	396.9	387.9	393.1	391.8	395.6
12.5°	1330.3	1152.3	770.8	512.1	409.7	371.3	361.1	359.8	367.5	372.6	375.1
15°	1313.6	1078.1	632.5	420.0	358.5	344.4	340.6	340.6	345.7	350.8	349.5
17.5°	1299.6	1003.8	517.3	361.1	327.8	323.9	321.4	318.8	325.2	330.3	331.6
20°	1265.0	900.1	426.4	325.2	307.3	302.2	300.9	298.3	304.7	309.8	313.7
22.5°	1215.1	782.3	364.9	298.3	289.4	283.0	279.1	280.4	286.8	291.9	289.4
25°	1148.5	678.6	320.1	279.1	266.3	262.5	257.4	259.9	261.2	266.3	270.2
27.5°	1075.5	577.4	290.6	263.8	250.9	243.3	236.9	235.6	236.9	243.3	240.7
30°	967.9	489.1	270.2	245.8	231.7	221.5	213.8	210.0	208.7	210.0	211.3
32.5°	886.0	430.2	256.1	231.7	213.8	201.0	192.1	184.4	181.8	179.2	179.2
35°	833.5	398.2	242.0	212.5	195.9	183.1	169.0	160.0	154.9	152.4	153.6
37.5°	720.8	343.1	225.3	198.5	179.2	163.9	149.8	135.7	131.9	134.4	134.4
40°	626.1	294.5	210.0	181.8	160.0	146.0	130.6	114.0	111.4	119.1	120.4
42.5°	590.2	272.7	195.9	166.4	143.4	131.9	111.4	98.6	98.6	105.0	106.3
45°	633.8	266.3	183.1	152.4	129.3	116.5	96.0	84.5	84.5	90.9	92.2
47.5°	772.1	276.6	170.3	138.3	119.1	102.4	79.4	74.3	74.3	76.8	78.1
50°	1065.3	309.8	157.5	124.2	108.8	87.1	69.1	64.0	62.7	64.0	64.0
52.5°	1437.8	376.4	143.4	111.4	96.0	73.0	60.2	55.1	51.2	51.2	49.9
55°	1814.3	448.1	129.3	98.6	83.2	62.7	51.2	46.1	39.7	37.1	35.8
57.5°	2145.9	505.7	112.7	87.1	71.7	53.8	44.8	34.6	25.6	20.5	20.5
60°	2352.0	521.1	97.3	75.5	58.9	46.1	35.8	23.0	12.8	10.2	9.0
62.5°	2390.4	472.5	83.2	64.0	49.9	38.4	25.6	12.8	5.1	1.3	1.3
65°	2286.7	372.6	71.7	53.8	41.0	30.7	16.6	6.4	0.0	0.0	0.0
67.5°	2112.6	293.2	60.2	44.8	34.6	24.3	10.2	1.3	0.0	0.0	0.0
70°	1842.4	234.3	52.5	38.4	29.4	20.5	6.4	0.0	0.0	0.0	0.0
72.5°	1357.2	154.9	46.1	34.6	25.6	15.4	3.8	0.0	0.0	0.0	0.0
75°	742.6	98.6	42.3	32.0	24.3	12.8	2.6	0.0	0.0	0.0	0.0
77.5°	300.9	69.1	37.1	30.7	24.3	12.8	2.6	0.0	0.0	0.0	0.0
80°	114.0	48.7	32.0	26.9	23.0	12.8	2.6	0.0	0.0	0.0	0.0
82.5°	60.2	39.7	30.7	26.9	21.8	11.5	1.3	0.0	0.0	0.0	0.0
85°	29.4	12.8	15.4	15.4	17.9	10.2	1.3	0.0	0.0	0.0	0.0
87.5°	6.4	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)