

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: P1209096

Luminaire Tested: UPW-SA2-090-750-U-SL3-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209096
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-SA2-090-750-U-SL3-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 5000K, 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: 8248 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

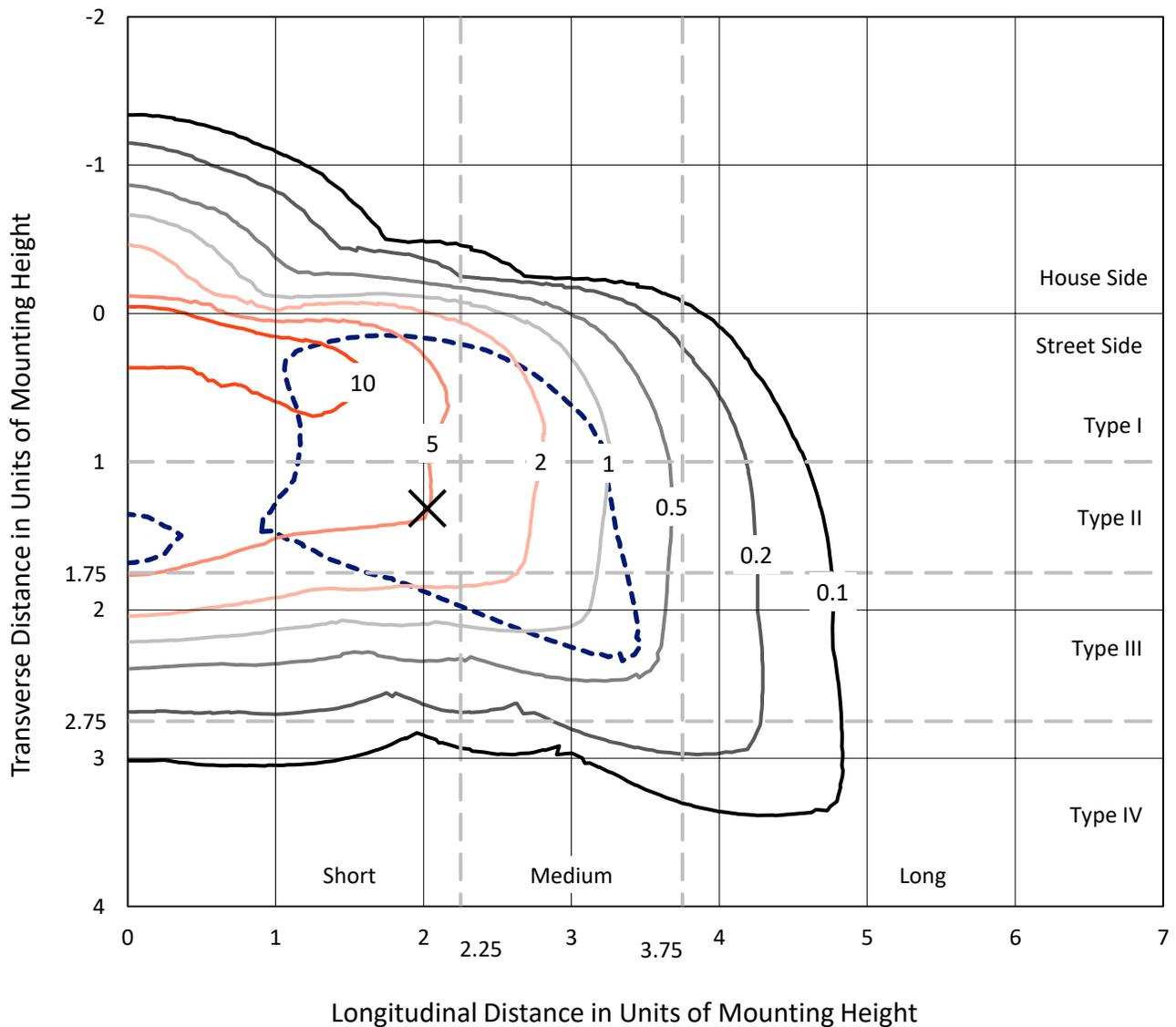
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P1209096
 CATALOG NUMBER: UPW-SA2-090-750-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

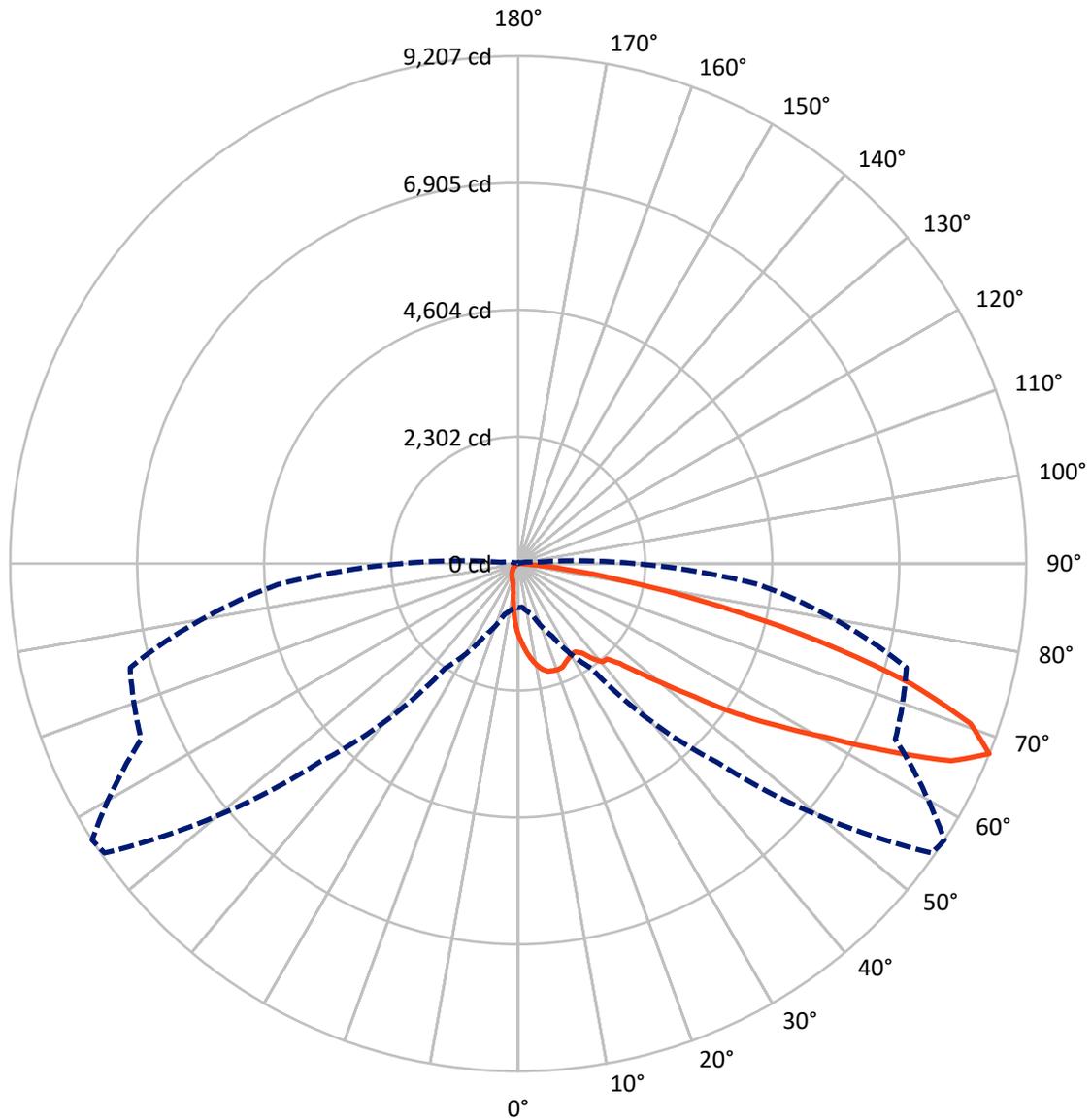
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.5 fc
 Type III - Short - N/A

REPORT NUMBER: P1209096
CATALOG NUMBER: UPW-SA2-090-750-U-SL3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P1209096

CATALOG NUMBER: UPW-SA2-090-750-U-SL3-HSS

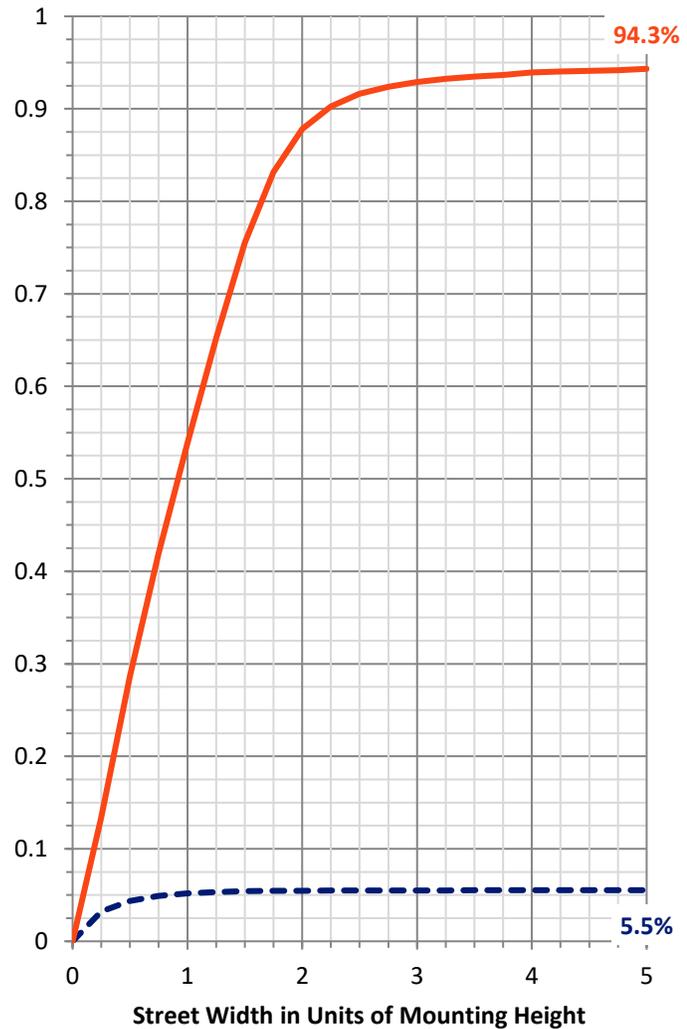
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	459.0	0.0	459.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	7789.0	0.0	7789.0
	% Fixture	94.4	0.0	94.4
Total	Lumens	8248.0	0.0	8248.0
	% 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°	449.0	5.4
30°-40°	675.2	8.2
40°-50°	1101.6	13.4
50°-60°	2085.0	25.3
60°-70°	2382.7	28.9
70°-80°	1040.0	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°	8248.0	100.0
0°-180°	8248.0	100.0



REPORT NUMBER: P1209096

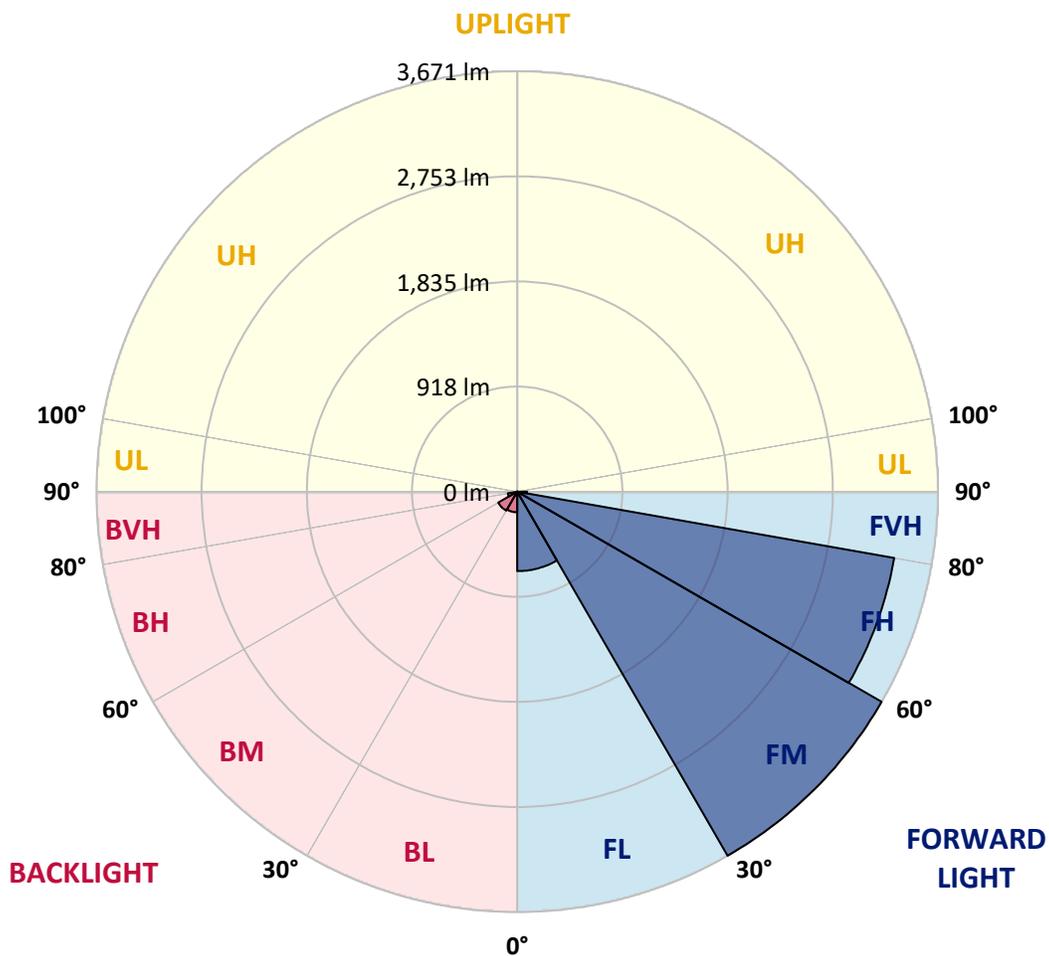
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	693.6	8.4			
FM	(30°-60°)	3670.6	44.5			
FH	(60°-80°)	3339.5	40.5			G2/5000
FVH	(80°-90°)	85.4	1.0			G1/100
BL	(0°-30°)	180.1	2.2	B1/500		
BM	(30°-60°)	191.2	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





REPORT NUMBER: P1209096

CATALOG NUMBER: UPW-SA2-090-750-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2
2.5°	1549.0	1561.8	1567.0	1545.2	1524.7	1509.4	1478.6	1459.4	1430.0	1394.1	1344.2
5°	1776.9	1775.6	1762.8	1746.2	1737.2	1688.6	1637.4	1616.9	1569.5	1479.9	1382.6
7.5°	1862.7	1870.4	1879.3	1869.1	1853.7	1828.1	1768.0	1752.6	1683.5	1567.0	1430.0
10°	1823.0	1835.8	1851.2	1878.1	1929.3	1938.2	1892.1	1875.5	1792.3	1664.3	1469.7
12.5°	1639.9	1659.1	1684.7	1771.8	1890.9	1965.1	1975.4	1970.2	1899.8	1751.3	1497.8
15°	1396.7	1376.2	1442.8	1563.1	1759.0	1929.3	2021.4	2025.3	1989.4	1833.2	1528.6
17.5°	1213.6	1232.8	1262.3	1353.2	1556.7	1801.2	2015.0	2039.4	2056.0	1920.3	1564.4
20°	1182.9	1184.2	1197.0	1246.9	1353.2	1647.6	1993.3	2050.9	2137.9	2006.1	1579.8
22.5°	1212.4	1204.7	1211.1	1221.3	1287.9	1491.4	1947.2	2040.6	2186.6	2112.3	1611.8
25°	1250.8	1259.7	1248.2	1235.4	1273.8	1421.0	1893.4	1989.4	2259.6	2207.1	1625.9
27.5°	1358.3	1363.4	1332.7	1286.6	1300.7	1389.0	1810.2	1948.5	2369.7	2313.3	1648.9
30°	1533.7	1528.6	1464.6	1389.0	1357.0	1409.5	1757.7	1903.7	2428.5	2395.3	1637.4
32.5°	1664.3	1654.0	1591.3	1513.2	1456.9	1487.6	1757.7	1908.8	2547.6	2538.6	1659.1
35°	1782.0	1773.1	1695.0	1632.3	1583.6	1611.8	1856.3	1992.0	2717.9	2804.9	1736.0
37.5°	1910.1	1885.7	1824.3	1715.5	1700.1	1808.9	2068.8	2181.5	2988.0	3052.0	1738.5
40°	2112.3	2091.8	1993.3	1880.6	1797.4	1956.1	2235.2	2342.8	3178.7	3250.4	1728.3
42.5°	2390.1	2341.5	2219.9	2056.0	1922.9	2035.5	2254.4	2365.8	3323.4	3559.0	1826.8
45°	2692.3	2678.2	2509.2	2298.0	2157.1	2143.1	2458.0	2580.9	3644.7	4057.0	2040.6
47.5°	3128.8	3018.7	2796.0	2570.6	2450.3	2355.6	2770.4	2957.3	4036.5	4639.5	2359.4
50°	3588.4	3524.4	3185.1	2874.1	2726.8	2692.3	3264.5	3433.5	4538.3	5294.9	2890.7
52.5°	4371.9	4224.7	3766.4	3374.6	3119.9	3086.6	3802.2	4018.6	5104.2	6077.1	3427.1
55°	4899.3	4808.4	4347.6	4051.8	3717.7	3616.6	4563.9	4800.8	5796.8	6759.5	3963.5
57.5°	5068.3	4956.9	4542.2	4470.5	4393.7	4451.3	5353.8	5551.0	6276.8	7292.0	4438.5
60°	4391.1	4387.3	4150.4	4337.3	4717.5	5383.2	6287.1	6374.1	6666.0	7618.5	4734.2
62.5°	3158.3	3148.0	3195.4	3658.8	4368.0	6014.4	7571.1	7473.8	7004.0	7800.3	4894.2
65°	1637.4	1645.1	1883.2	2493.8	3514.2	5965.7	8746.3	8623.4	7212.7	7688.9	4781.6
67.5°	798.8	792.4	947.3	1450.5	2321.0	5093.9	9149.6	9207.2	7540.4	7280.5	4374.4
70°	398.1	403.3	515.9	765.6	1267.4	3658.8	8449.3	8693.9	7238.3	6411.3	3725.4
72.5°	280.4	284.2	350.8	454.5	592.7	2221.2	7012.9	7434.1	6041.3	5100.3	2625.7
75°	201.0	207.4	257.3	339.3	329.0	1115.1	5420.4	5670.0	4379.6	3149.3	1391.6
77.5°	145.9	154.9	201.0	261.2	227.9	468.6	3753.6	3747.2	2470.8	1496.6	563.3
80°	96.0	102.4	148.5	193.3	162.6	217.6	2199.4	2071.4	1093.3	573.5	204.8
82.5°	53.8	56.3	99.9	134.4	112.7	102.4	983.2	906.4	370.0	210.0	96.0
85°	3.8	6.4	58.9	84.5	60.2	51.2	275.2	249.6	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



REPORT NUMBER: P1209096

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2
2.5°	1323.7	1287.9	1234.1	1181.6	1130.4	1084.3	1051.0	1017.8	1003.7	971.7	1026.7
5°	1331.4	1267.4	1139.4	1015.2	907.7	792.4	716.9	663.1	636.3	611.9	613.2
7.5°	1339.1	1241.8	1044.6	834.7	679.8	558.2	490.3	466.0	455.8	442.9	442.9
10°	1330.1	1200.8	908.9	656.7	499.3	434.0	396.9	387.9	393.0	391.7	395.6
12.5°	1330.1	1152.2	770.7	512.1	409.7	371.3	361.0	359.7	367.4	372.5	375.1
15°	1313.5	1077.9	632.4	419.9	358.5	344.4	340.5	340.5	345.7	350.8	349.5
17.5°	1299.4	1003.7	517.2	361.0	327.7	323.9	321.3	318.8	325.2	330.3	331.6
20°	1264.8	900.0	426.3	325.2	307.2	302.1	300.8	298.3	304.7	309.8	313.6
22.5°	1214.9	782.2	364.9	298.3	289.3	282.9	279.1	280.4	286.8	291.9	289.3
25°	1148.3	678.5	320.1	279.1	266.3	262.4	257.3	259.9	261.2	266.3	270.1
27.5°	1075.4	577.4	290.6	263.7	250.9	243.2	236.8	235.6	236.8	243.2	240.7
30°	967.8	489.0	270.1	245.8	231.7	221.5	213.8	210.0	208.7	210.0	211.2
32.5°	885.9	430.1	256.0	231.7	213.8	201.0	192.0	184.3	181.8	179.2	179.2
35°	833.4	398.1	242.0	212.5	195.9	183.1	169.0	160.0	154.9	152.3	153.6
37.5°	720.8	343.1	225.3	198.4	179.2	163.9	149.8	135.7	131.9	134.4	134.4
40°	626.0	294.4	210.0	181.8	160.0	145.9	130.6	113.9	111.4	119.1	120.3
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°	633.7	266.3	183.1	152.3	129.3	116.5	96.0	84.5	84.5	90.9	92.2
47.5°	772.0	276.5	170.3	138.3	119.1	102.4	79.4	74.3	74.3	76.8	78.1
50°	1065.1	309.8	157.5	124.2	108.8	87.1	69.1	64.0	62.7	64.0	64.0
52.5°	1437.7	376.4	143.4	111.4	96.0	73.0	60.2	55.0	51.2	51.2	49.9
55°	1814.0	448.1	129.3	98.6	83.2	62.7	51.2	46.1	39.7	37.1	35.8
57.5°	2145.6	505.7	112.7	87.1	71.7	53.8	44.8	34.6	25.6	20.5	20.5
60°	2351.7	521.0	97.3	75.5	58.9	46.1	35.8	23.0	12.8	10.2	9.0
62.5°	2390.1	472.4	83.2	64.0	49.9	38.4	25.6	12.8	5.1	1.3	1.3
65°	2286.4	372.5	71.7	53.8	41.0	30.7	16.6	6.4	0.0	0.0	0.0
67.5°	2112.3	293.2	60.2	44.8	34.6	24.3	10.2	1.3	0.0	0.0	0.0
70°	1842.2	234.3	52.5	38.4	29.4	20.5	6.4	0.0	0.0	0.0	0.0
72.5°	1357.0	154.9	46.1	34.6	25.6	15.4	3.8	0.0	0.0	0.0	0.0
75°	742.5	98.6	42.2	32.0	24.3	12.8	2.6	0.0	0.0	0.0	0.0
77.5°	300.8	69.1	37.1	30.7	24.3	12.8	2.6	0.0	0.0	0.0	0.0
80°	113.9	48.6	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)