

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: P1209071

Luminaire Tested: UPW-SA2-090-740-U-SL4-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209071
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-SA2-090-740-U-SL4-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 4000K, 800mA 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: 8690 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

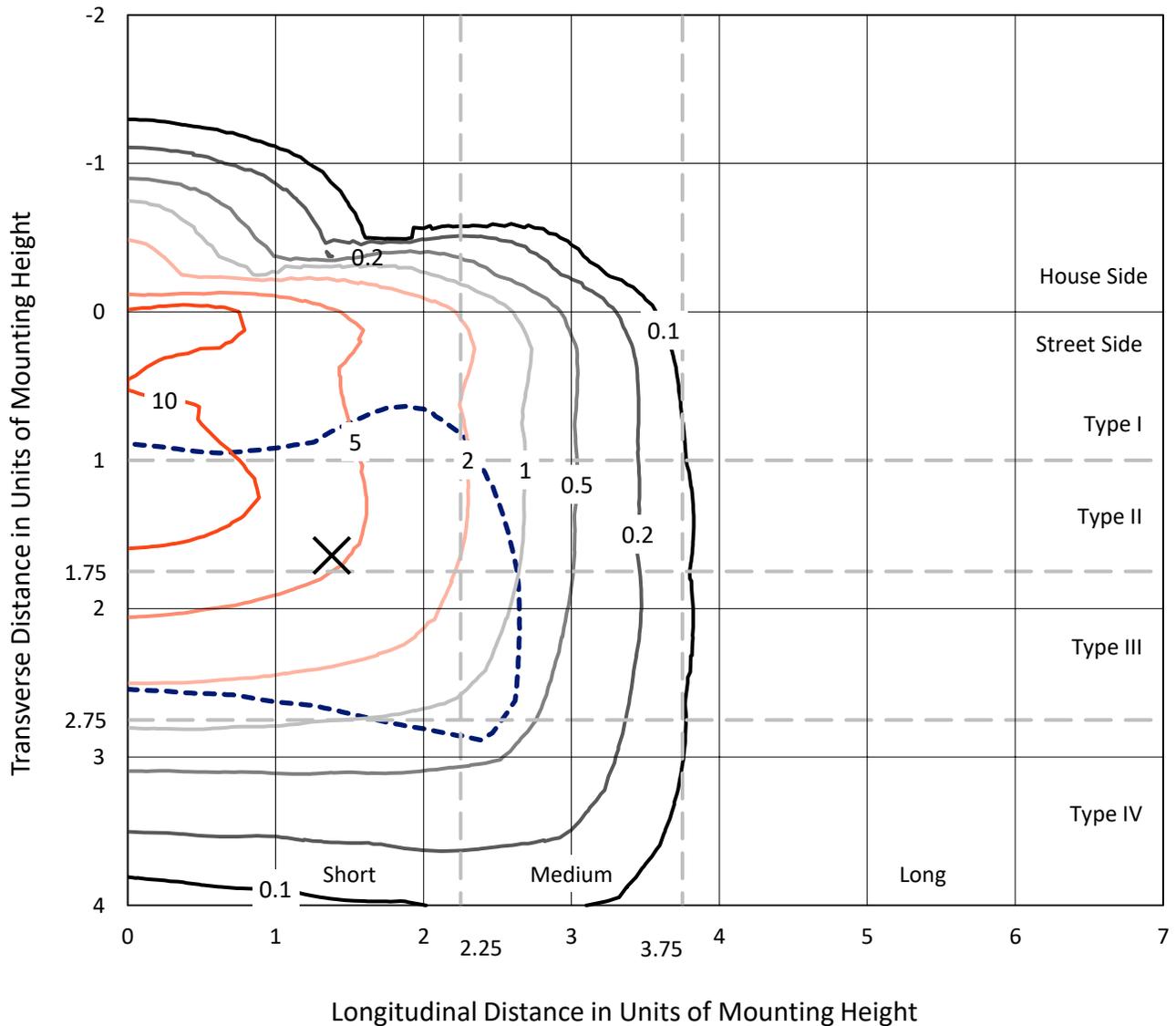
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

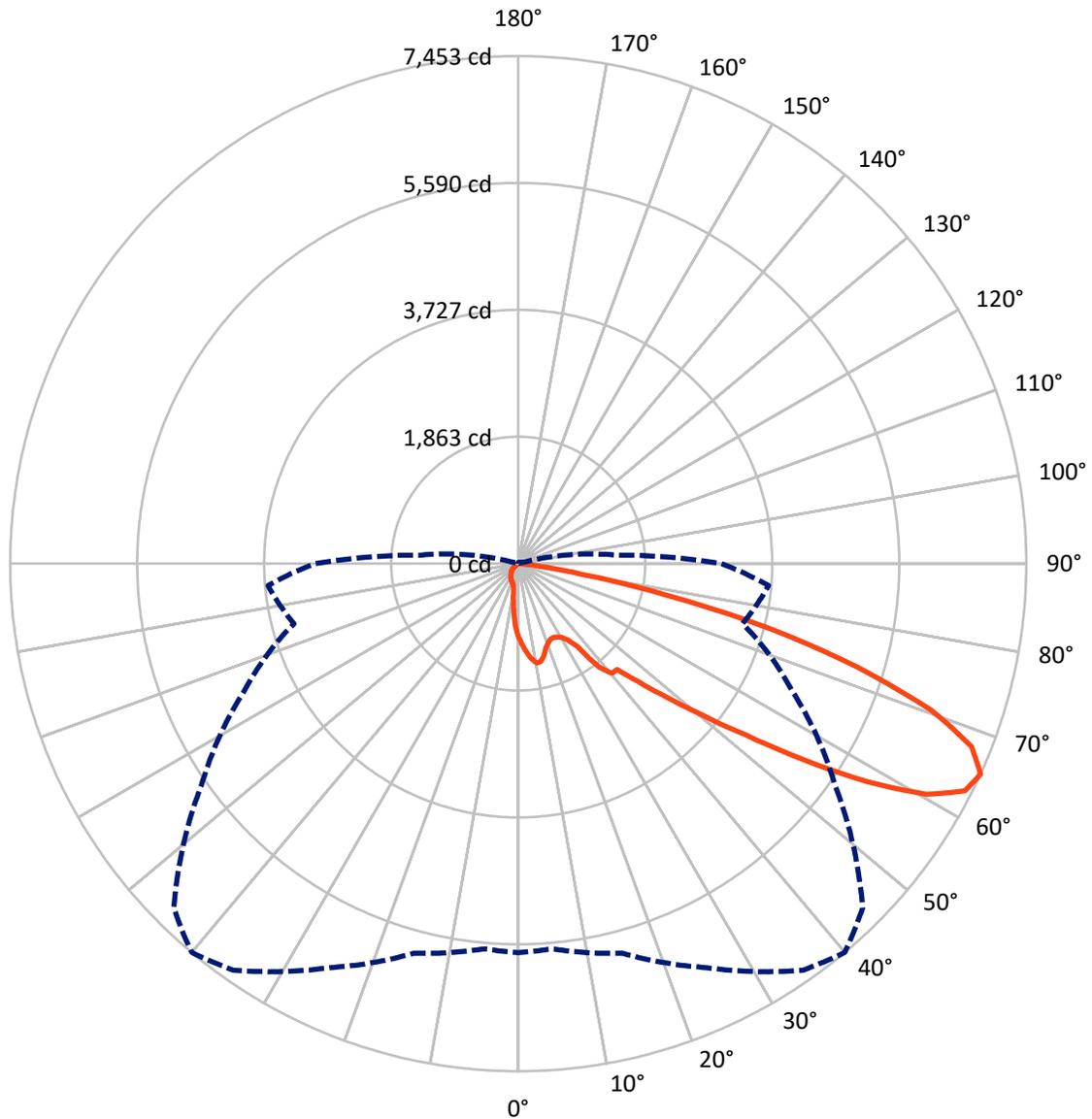
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.2 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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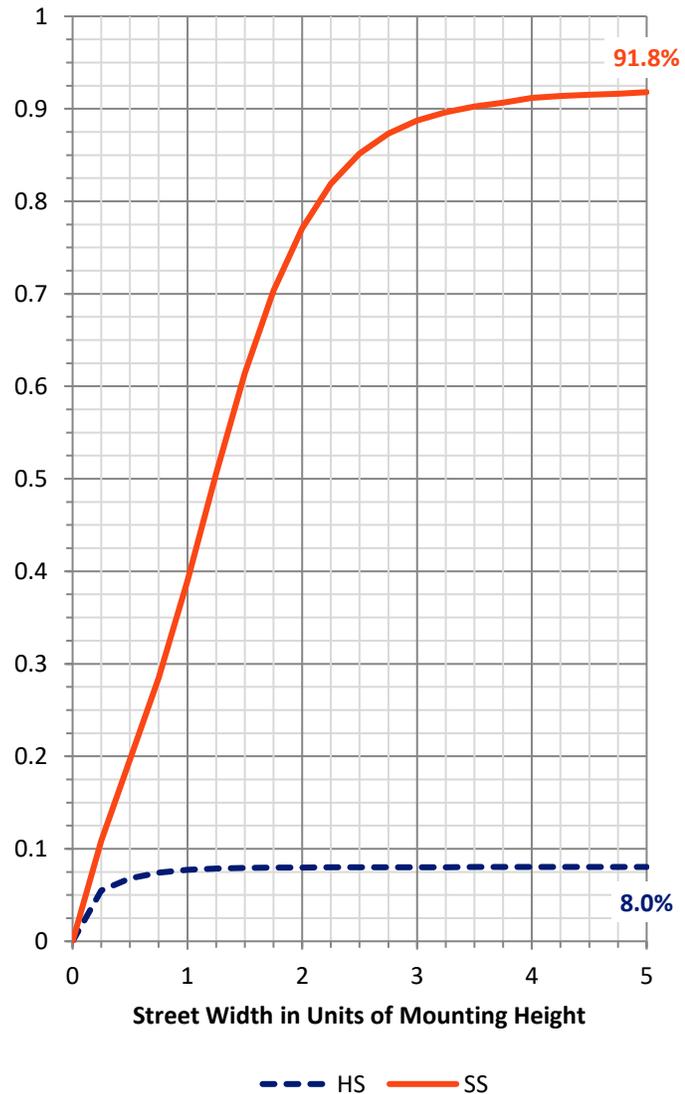
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	703.3	0.0	703.3
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	7986.7	0.0	7986.7
	% Fixture	91.9	0.0	91.9
Total	Lumens	8690.0	0.0	8690.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	1.1
10°-20°	279.9	3.2
20°-30°	436.9	5.0
30°-40°	723.9	8.3
40°-50°	1227.5	14.1
50°-60°	2162.2	24.9
60°-70°	2693.1	31.0
70°-80°	1012.1	11.6
80°-90°	54.8	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°	8690.0	100.0
0°-180°	8690.0	100.0



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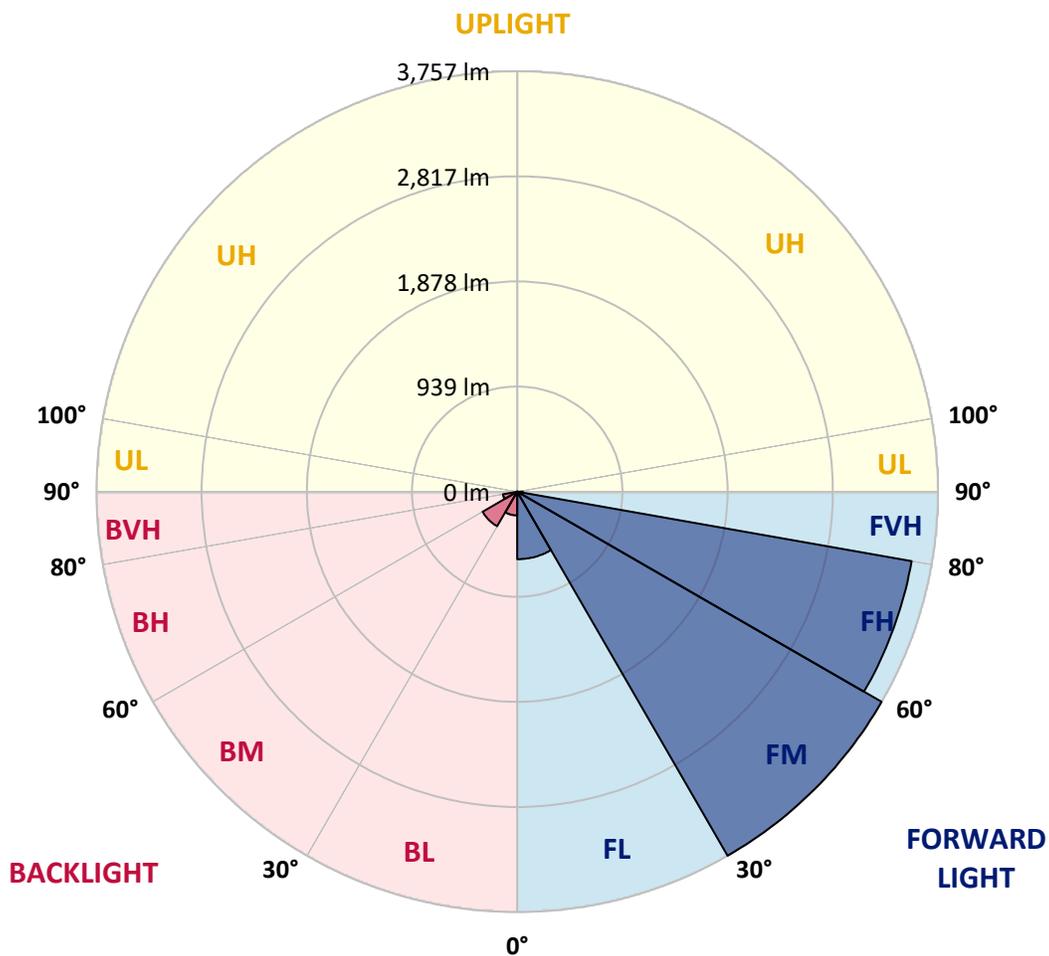
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	603.5	6.9			
FM	(30°-60°)	3756.5	43.2			
FH	(60°-80°)	3575.4	41.1			G2/5000
FVH	(80°-90°)	51.2	0.6			G1/100
BL	(0°-30°)	212.8	2.4	B1/500		
BM	(30°-60°)	357.1	4.1	B1/1000		
BH	(60°-80°)	129.8	1.5	B1/500		G1/500
BVH	(80°-90°)	3.6	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°	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2
2.5°	1228.5	1218.3	1215.8	1210.6	1197.8	1196.6	1194.0	1171.0	1154.3	1137.7	1112.1
5°	1347.6	1339.9	1333.5	1332.2	1323.2	1311.7	1309.2	1277.2	1246.5	1211.9	1158.2
7.5°	1434.6	1426.9	1426.9	1426.9	1416.7	1412.8	1412.8	1379.6	1350.1	1297.7	1224.7
10°	1452.5	1447.4	1452.5	1465.3	1478.1	1483.2	1488.3	1480.7	1456.3	1398.8	1310.5
12.5°	1407.7	1402.6	1407.7	1426.9	1451.2	1475.5	1507.5	1548.5	1557.4	1517.8	1402.6
15°	1362.9	1356.5	1346.3	1342.4	1368.0	1405.2	1448.7	1560.0	1641.9	1630.4	1508.8
17.5°	1334.8	1333.5	1309.2	1275.9	1278.5	1306.6	1362.9	1513.9	1682.9	1731.5	1607.4
20°	1307.9	1304.1	1277.2	1229.8	1219.6	1245.2	1292.5	1449.9	1675.2	1824.9	1709.7
22.5°	1293.8	1288.7	1252.9	1196.6	1186.3	1209.4	1251.6	1380.8	1636.8	1879.9	1807.0
25°	1310.5	1306.6	1255.4	1190.2	1181.2	1200.4	1237.5	1343.7	1586.9	1900.4	1885.1
27.5°	1366.8	1359.1	1291.3	1213.2	1201.7	1219.6	1250.3	1330.9	1543.4	1892.7	1947.8
30°	1558.7	1529.3	1428.2	1282.3	1246.5	1258.0	1282.3	1347.6	1515.2	1882.5	2018.1
32.5°	1931.1	1915.8	1746.8	1481.9	1346.3	1336.0	1352.7	1398.8	1534.4	1936.2	2148.7
35°	2578.7	2559.5	2320.2	1899.1	1548.5	1492.2	1481.9	1521.6	1680.3	1950.3	2170.4
37.5°	3082.9	3065.0	2864.1	2548.0	2115.4	1932.4	1813.4	1796.8	1689.3	1885.1	2197.3
40°	3328.6	3297.9	3003.5	2577.4	2254.9	2118.0	1986.2	1717.4	1597.1	1846.7	2266.4
42.5°	3922.4	3837.9	3491.1	2957.5	2375.2	2124.4	1891.5	1607.4	1630.4	1886.3	2373.9
45°	4582.7	4587.9	4168.1	3459.1	2769.4	2469.9	2178.1	1739.2	1749.4	1987.4	2516.0
47.5°	5344.2	5255.9	4811.8	4095.2	3262.1	2922.9	2596.6	1968.2	1918.3	2150.0	2706.6
50°	5898.3	5842.0	5496.5	4820.8	3869.9	3484.7	3056.0	2312.5	2194.8	2336.8	2899.9
52.5°	6204.2	6191.4	6018.6	5477.3	4622.4	4174.5	3614.0	2715.6	2532.6	2542.8	3043.2
55°	6444.8	6410.2	6402.5	6137.6	5473.4	5079.3	4349.8	3263.3	2961.3	2743.8	3186.5
57.5°	6686.6	6647.0	6680.2	6632.9	6388.5	6049.3	5232.9	3858.4	3335.0	2957.5	3358.0
60°	6690.5	6650.8	6744.2	6943.9	7052.6	6877.3	6128.7	4508.5	3747.1	3176.3	3590.9
62.5°	6382.1	6342.4	6502.4	6918.3	7372.6	7350.8	6823.6	5131.8	4157.9	3395.1	3784.2
65°	5710.2	5678.2	5922.6	6545.9	7286.8	7453.2	7147.3	5673.1	4436.9	3405.4	3684.4
67.5°	4354.9	4412.5	4827.2	5687.2	6841.5	7175.5	7101.3	5815.1	4299.9	3095.7	3304.3
70°	2810.3	2915.2	3378.5	4393.3	5821.5	6417.9	6456.3	5162.5	3598.6	2517.2	2482.7
72.5°	1496.0	1515.2	1942.6	2842.3	4426.6	5209.8	5267.4	3886.6	2462.2	1672.6	1355.2
75°	655.2	707.7	950.8	1598.4	2949.8	3817.5	3646.0	2329.1	1270.8	765.3	524.7
77.5°	235.5	254.7	369.8	781.9	1664.9	2234.4	2082.1	1107.0	513.2	339.1	153.6
80°	113.9	115.2	148.4	298.2	696.2	941.9	819.0	391.6	234.2	190.7	60.1
82.5°	38.4	47.4	84.5	117.7	258.5	321.2	236.8	145.9	139.5	144.6	42.2
85°	0.0	1.3	42.2	64.0	66.5	75.5	60.1	64.0	85.7	87.0	14.1
87.5°	0.0	0.0	0.0	12.8	14.1	14.1	7.7	15.4	35.8	42.2	2.6
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°	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2
2.5°	1096.7	1081.4	1050.7	1025.1	990.5	966.2	940.6	929.1	921.4	889.4	886.9
5°	1128.7	1094.2	1023.8	947.0	871.5	797.3	726.9	687.2	652.7	638.6	622.0
7.5°	1176.1	1123.6	999.5	867.7	725.6	610.4	532.4	488.9	453.0	446.6	441.5
10°	1241.3	1162.0	979.0	765.3	565.6	456.9	392.9	364.7	353.2	350.6	346.8
12.5°	1313.0	1210.6	956.0	646.3	442.8	350.6	323.8	323.8	330.2	332.7	332.7
15°	1405.2	1266.9	912.5	540.0	355.8	307.1	305.9	311.0	317.4	319.9	321.2
17.5°	1485.8	1325.8	857.4	442.8	305.9	291.8	294.3	298.2	304.6	309.7	309.7
20°	1572.8	1379.6	801.1	364.7	281.5	277.7	280.3	285.4	293.1	296.9	298.2
22.5°	1649.6	1421.8	735.8	313.5	264.9	264.9	268.7	273.9	282.8	289.2	289.2
25°	1713.6	1455.1	665.5	279.0	249.5	250.8	254.7	262.3	271.3	277.7	279.0
27.5°	1763.5	1471.7	584.8	250.8	234.2	234.2	240.6	249.5	261.1	268.7	268.7
30°	1827.5	1497.3	523.4	230.4	217.6	217.6	222.7	234.2	249.5	259.8	259.8
32.5°	1923.4	1542.1	458.1	212.4	202.2	202.2	207.3	217.6	232.9	245.7	248.3
35°	1938.8	1521.6	391.6	198.4	188.1	186.8	189.4	198.4	211.2	220.1	224.0
37.5°	1963.1	1521.6	328.9	183.0	174.0	172.8	174.0	177.9	183.0	185.6	184.3
40°	2016.9	1531.8	276.4	170.2	161.2	158.7	157.4	156.1	151.0	144.6	143.3
42.5°	2101.3	1558.7	231.6	156.1	147.2	144.6	140.8	131.8	120.3	111.3	111.3
45°	2202.4	1583.0	194.5	144.6	134.4	131.8	120.3	106.2	92.1	85.7	85.7
47.5°	2326.6	1612.5	165.1	134.4	124.1	117.7	98.5	81.9	70.4	67.8	67.8
50°	2469.9	1630.4	139.5	122.9	113.9	102.4	78.1	64.0	55.0	53.7	53.7
52.5°	2569.7	1629.1	119.0	112.6	103.7	85.7	62.7	51.2	44.8	42.2	42.2
55°	2665.7	1611.2	99.8	99.8	89.6	69.1	51.2	42.2	35.8	33.3	32.0
57.5°	2782.2	1602.2	85.7	83.2	72.9	56.3	42.2	34.6	28.2	23.0	21.8
60°	2967.7	1617.6	71.7	66.5	57.6	44.8	34.6	26.9	20.5	14.1	12.8
62.5°	3091.8	1602.2	58.9	53.7	46.1	35.8	25.6	19.2	11.5	7.7	6.4
65°	2976.7	1430.7	49.9	43.5	37.1	28.2	19.2	12.8	5.1	1.3	0.0
67.5°	2573.6	1142.8	42.2	35.8	29.4	21.8	14.1	7.7	1.3	0.0	0.0
70°	1871.0	770.4	37.1	29.4	23.0	17.9	10.2	3.8	0.0	0.0	0.0
72.5°	979.0	362.2	33.3	26.9	20.5	14.1	7.7	2.6	0.0	0.0	0.0
75°	343.0	130.5	30.7	25.6	17.9	11.5	6.4	2.6	0.0	0.0	0.0
77.5°	107.5	58.9	30.7	26.9	19.2	11.5	6.4	2.6	0.0	0.0	0.0
80°	48.6	38.4	28.2	25.6	17.9	11.5	6.4	1.3	0.0	0.0	0.0
82.5°	34.6	30.7	26.9	23.0	16.6	10.2	5.1	1.3	0.0	0.0	0.0
85°	12.8	10.2	10.2	12.8	11.5	6.4	2.6	0.0	0.0	0.0	0.0
87.5°	1.3	1.3	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)