

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: P1209098

Luminaire Tested: UPW-SA2-090-750-U-SL4-HSS

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209098  
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-SA2-090-750-U-SL4-HSS  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 5000K, 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: 8689 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

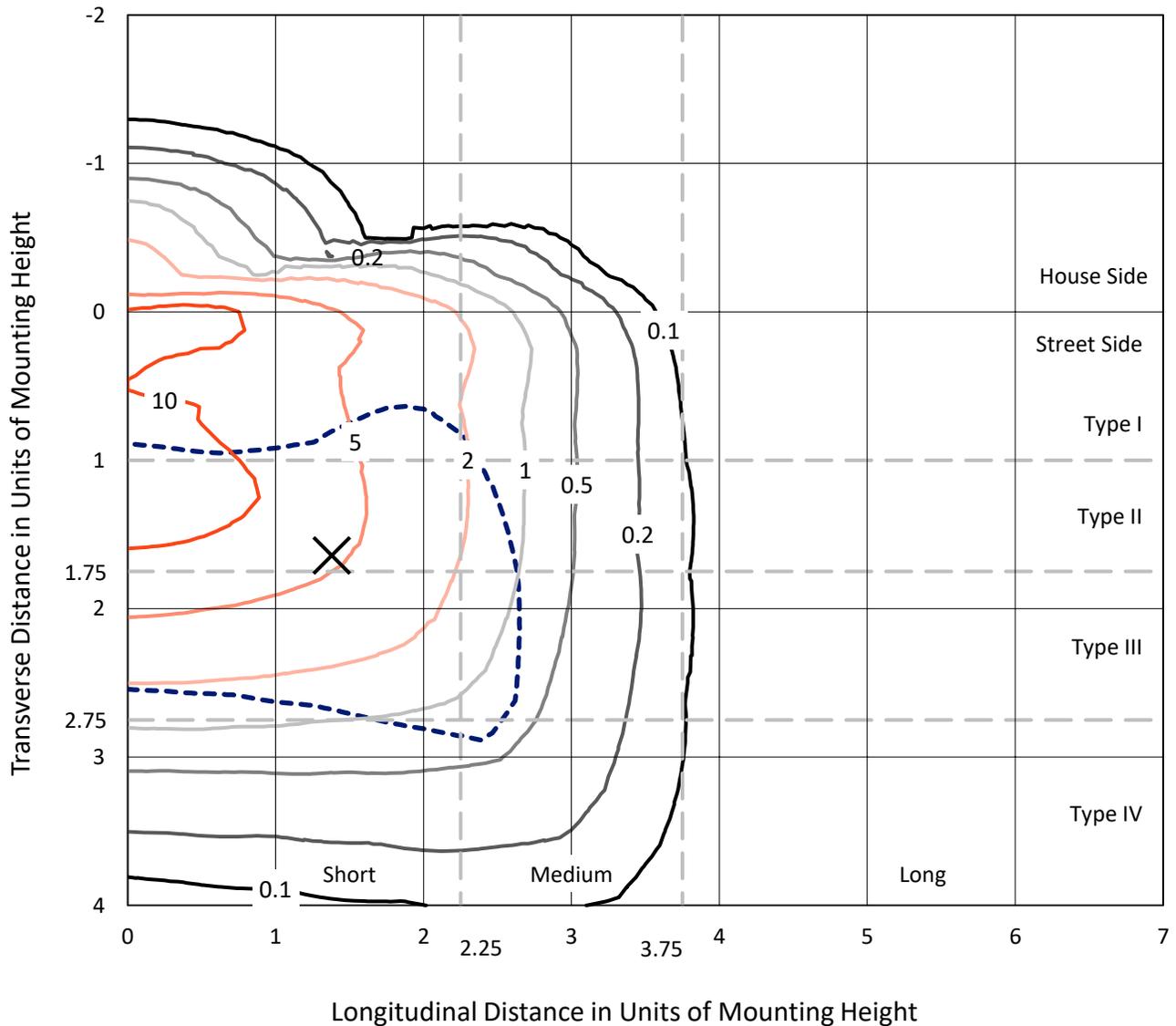
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

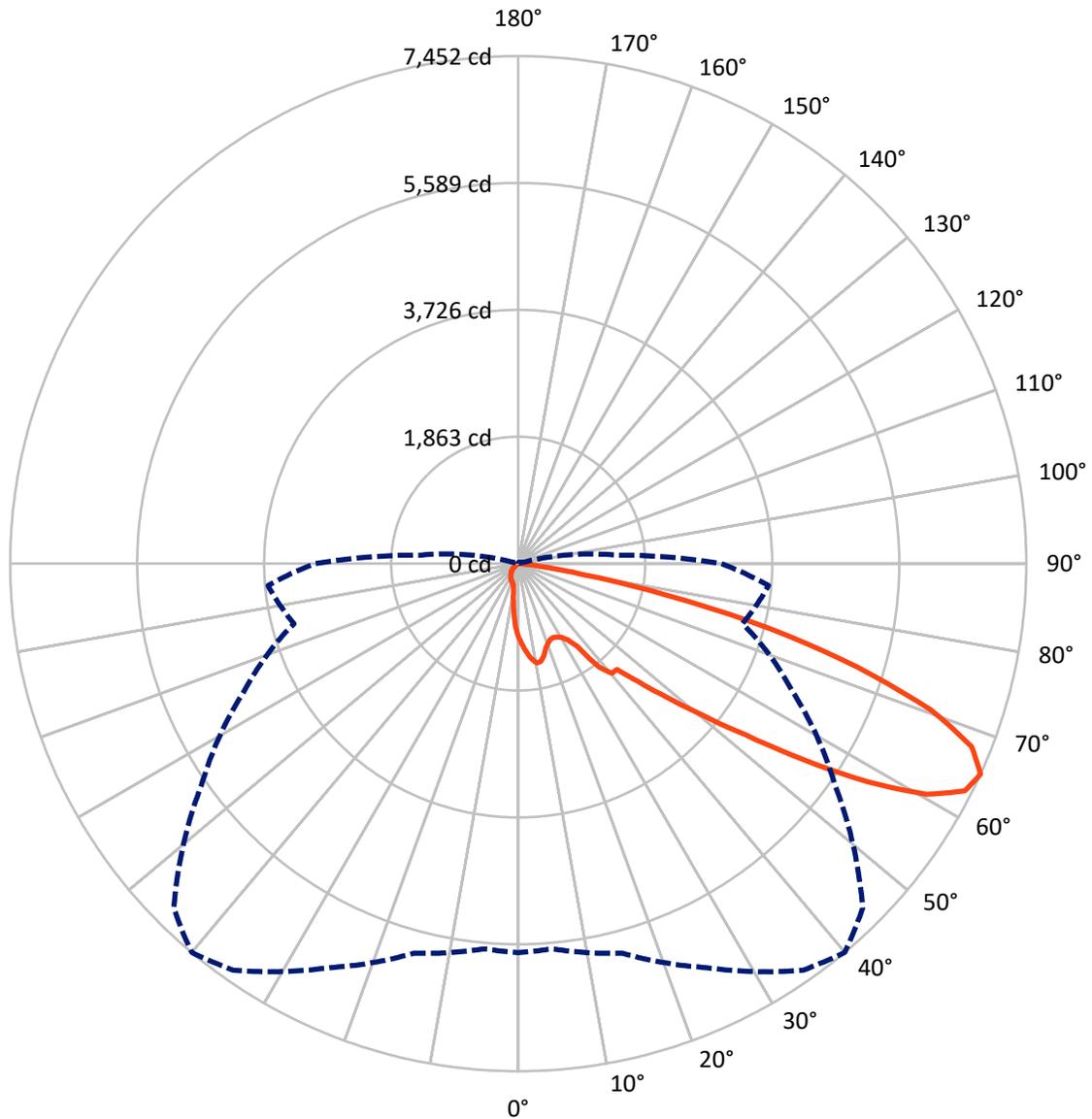
✕ Max cd  
 - - - 1/2 Max cd



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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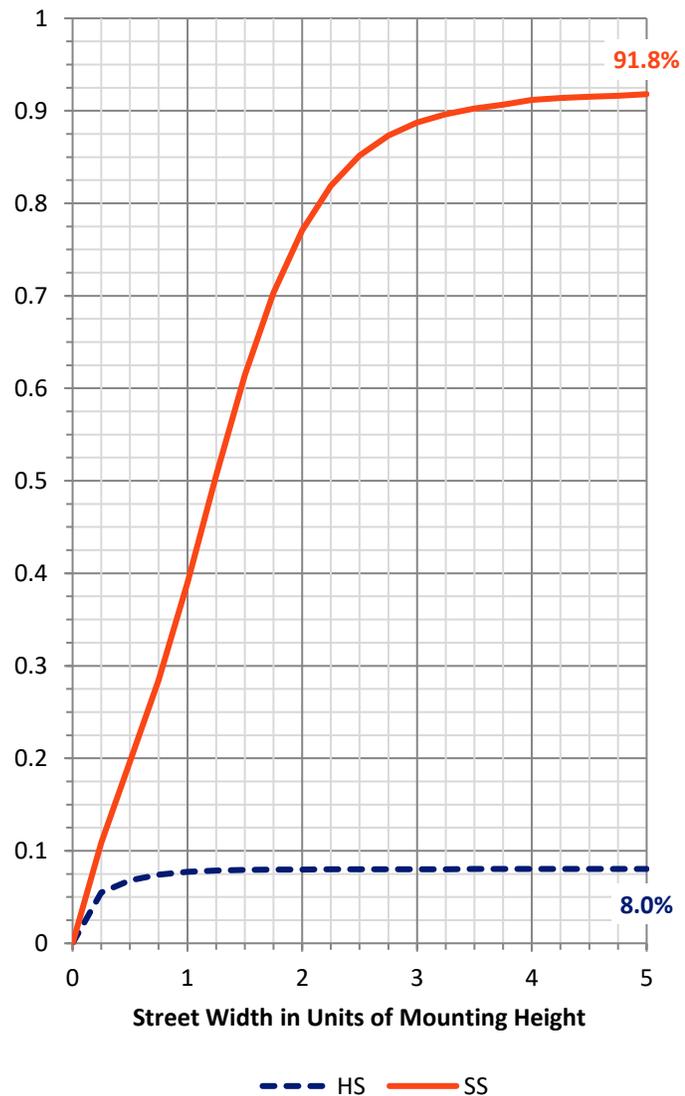
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	703.2	0.0	703.2
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	7985.8	0.0	7985.8
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	8689.0	0.0	8689.0
	% 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°	436.8	5.0
30°-40°	723.8	8.3
40°-50°	1227.4	14.1
50°-60°	2162.0	24.9
60°-70°	2692.8	31.0
70°-80°	1012.0	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°	8689.0	100.0
0°-180°	8689.0	100.0



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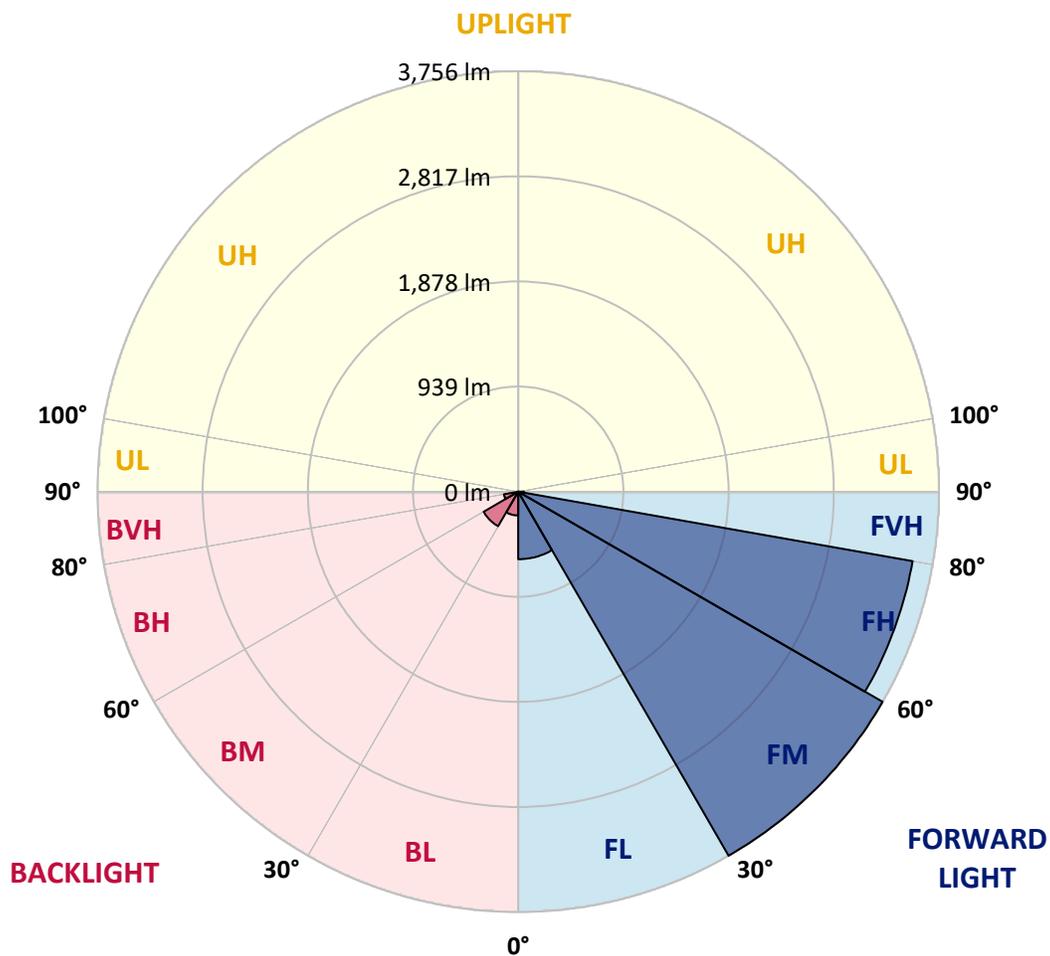
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	603.4	6.9			
FM	(30°-60°)	3756.1	43.2			
FH	(60°-80°)	3575.0	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°	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1
2.5°	1228.4	1218.2	1215.6	1210.5	1197.7	1196.4	1193.9	1170.8	1154.2	1137.6	1112.0
5°	1347.4	1339.7	1333.3	1332.1	1323.1	1311.6	1309.0	1277.0	1246.3	1211.8	1158.0
7.5°	1434.4	1426.7	1426.7	1426.7	1416.5	1412.7	1412.7	1379.4	1350.0	1297.5	1224.6
10°	1452.3	1447.2	1452.3	1465.1	1477.9	1483.0	1488.2	1480.5	1456.2	1398.6	1310.3
12.5°	1407.6	1402.4	1407.6	1426.7	1451.1	1475.4	1507.4	1548.3	1557.3	1517.6	1402.4
15°	1362.8	1356.4	1346.1	1342.3	1367.9	1405.0	1448.5	1559.8	1641.7	1630.2	1508.6
17.5°	1334.6	1333.3	1309.0	1275.8	1278.3	1306.5	1362.8	1513.8	1682.7	1731.3	1607.2
20°	1307.7	1303.9	1277.0	1229.7	1219.5	1245.0	1292.4	1449.8	1675.0	1824.7	1709.5
22.5°	1293.7	1288.5	1252.7	1196.4	1186.2	1209.2	1251.4	1380.7	1636.6	1879.7	1806.8
25°	1310.3	1306.5	1255.3	1190.0	1181.1	1200.3	1237.4	1343.6	1586.7	1900.2	1884.8
27.5°	1366.6	1358.9	1291.1	1213.1	1201.5	1219.5	1250.2	1330.8	1543.2	1892.5	1947.5
30°	1558.5	1529.1	1428.0	1282.2	1246.3	1257.8	1282.2	1347.4	1515.0	1882.3	2017.9
32.5°	1930.9	1915.5	1746.6	1481.8	1346.1	1335.9	1352.5	1398.6	1534.2	1936.0	2148.4
35°	2578.4	2559.2	2319.9	1898.9	1548.3	1492.0	1481.8	1521.4	1680.1	1950.1	2170.2
37.5°	3082.5	3064.6	2863.7	2547.7	2115.2	1932.2	1813.2	1796.5	1689.1	1884.8	2197.1
40°	3328.2	3297.5	3003.2	2577.1	2254.6	2117.7	1985.9	1717.2	1596.9	1846.5	2266.2
42.5°	3921.9	3837.5	3490.7	2957.1	2374.9	2124.1	1891.2	1607.2	1630.2	1886.1	2373.6
45°	4582.2	4587.3	4167.6	3458.7	2769.0	2469.6	2177.9	1739.0	1749.2	1987.2	2515.7
47.5°	5343.6	5255.3	4811.3	4094.7	3261.7	2922.6	2596.3	1968.0	1918.1	2149.7	2706.3
50°	5897.6	5841.3	5495.8	4820.2	3869.5	3484.3	3055.7	2312.2	2194.5	2336.5	2899.6
52.5°	6203.5	6190.7	6017.9	5476.7	4621.9	4174.0	3613.6	2715.3	2532.3	2542.5	3042.9
55°	6444.0	6409.5	6401.8	6136.9	5472.8	5078.7	4349.3	3263.0	2961.0	2743.4	3186.2
57.5°	6685.9	6646.2	6679.5	6632.1	6387.7	6048.6	5232.2	3858.0	3334.6	2957.1	3357.6
60°	6689.7	6650.0	6743.4	6943.1	7051.8	6876.5	6128.0	4508.0	3746.6	3175.9	3590.5
62.5°	6381.3	6341.7	6501.6	6917.5	7371.7	7350.0	6822.8	5131.2	4157.4	3394.8	3783.8
65°	5709.5	5677.5	5921.9	6545.1	7286.0	7452.3	7146.5	5672.4	4436.3	3405.0	3683.9
67.5°	4354.4	4412.0	4826.6	5686.5	6840.7	7174.7	7100.5	5814.5	4299.4	3095.3	3303.9
70°	2810.0	2914.9	3378.1	4392.8	5820.9	6417.1	6455.5	5161.9	3598.2	2517.0	2482.4
72.5°	1495.8	1515.0	1942.4	2842.0	4426.1	5209.2	5266.8	3886.1	2461.9	1672.4	1355.1
75°	655.2	707.6	950.7	1598.2	2949.5	3817.0	3645.6	2328.9	1270.6	765.2	524.6
77.5°	235.4	254.6	369.8	781.8	1664.7	2234.2	2081.9	1106.8	513.1	339.1	153.6
80°	113.9	115.2	148.4	298.1	696.1	941.8	818.9	391.6	234.2	190.7	60.1
82.5°	38.4	47.3	84.5	117.7	258.5	321.2	236.7	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°	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1
2.5°	1096.6	1081.3	1050.5	1025.0	990.4	966.1	940.5	929.0	921.3	889.3	886.8
5°	1128.6	1094.1	1023.7	946.9	871.4	797.2	726.8	687.1	652.6	638.5	621.9
7.5°	1175.9	1123.5	999.4	867.6	725.5	610.4	532.3	488.8	453.0	446.6	441.5
10°	1241.2	1161.9	978.9	765.2	565.6	456.8	392.8	364.7	353.2	350.6	346.8
12.5°	1312.9	1210.5	955.9	646.2	442.7	350.6	323.7	323.7	330.1	332.7	332.7
15°	1405.0	1266.8	912.3	540.0	355.7	307.1	305.8	310.9	317.3	319.9	321.2
17.5°	1485.6	1325.7	857.3	442.7	305.8	291.7	294.3	298.1	304.5	309.7	309.7
20°	1572.6	1379.4	801.0	364.7	281.5	277.7	280.2	285.3	293.0	296.9	298.1
22.5°	1649.4	1421.6	735.8	313.5	264.9	264.9	268.7	273.8	282.8	289.2	289.2
25°	1713.4	1454.9	665.4	279.0	249.5	250.8	254.6	262.3	271.3	277.7	279.0
27.5°	1763.3	1471.5	584.8	250.8	234.2	234.2	240.6	249.5	261.0	268.7	268.7
30°	1827.3	1497.1	523.4	230.3	217.5	217.5	222.6	234.2	249.5	259.8	259.8
32.5°	1923.2	1541.9	458.1	212.4	202.2	202.2	207.3	217.5	232.9	245.7	248.2
35°	1938.6	1521.4	391.6	198.3	188.1	186.8	189.4	198.3	211.1	220.1	223.9
37.5°	1962.9	1521.4	328.9	183.0	174.0	172.7	174.0	177.9	183.0	185.5	184.3
40°	2016.6	1531.7	276.4	170.2	161.2	158.7	157.4	156.1	151.0	144.6	143.3
42.5°	2101.1	1558.5	231.6	156.1	147.2	144.6	140.8	131.8	120.3	111.3	111.3
45°	2202.2	1582.9	194.5	144.6	134.4	131.8	120.3	106.2	92.1	85.7	85.7
47.5°	2326.3	1612.3	165.1	134.4	124.1	117.7	98.5	81.9	70.4	67.8	67.8
50°	2469.6	1630.2	139.5	122.8	113.9	102.4	78.1	64.0	55.0	53.7	53.7
52.5°	2569.4	1628.9	119.0	112.6	103.6	85.7	62.7	51.2	44.8	42.2	42.2
55°	2665.4	1611.0	99.8	99.8	89.6	69.1	51.2	42.2	35.8	33.3	32.0
57.5°	2781.8	1602.0	85.7	83.2	72.9	56.3	42.2	34.5	28.2	23.0	21.8
60°	2967.4	1617.4	71.7	66.5	57.6	44.8	34.5	26.9	20.5	14.1	12.8
62.5°	3091.5	1602.0	58.9	53.7	46.1	35.8	25.6	19.2	11.5	7.7	6.4
65°	2976.3	1430.6	49.9	43.5	37.1	28.2	19.2	12.8	5.1	1.3	0.0
67.5°	2573.3	1142.7	42.2	35.8	29.4	21.8	14.1	7.7	1.3	0.0	0.0
70°	1870.8	770.3	37.1	29.4	23.0	17.9	10.2	3.8	0.0	0.0	0.0
72.5°	978.9	362.1	33.3	26.9	20.5	14.1	7.7	2.6	0.0	0.0	0.0
75°	342.9	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°	34.5	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)