

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: P1209115

Luminaire Tested: UPW-SA2-090-750-U-T4W-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-750-U-T4W-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8643 lumens
Efficiency: N/A
Efficacy: 100.5 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

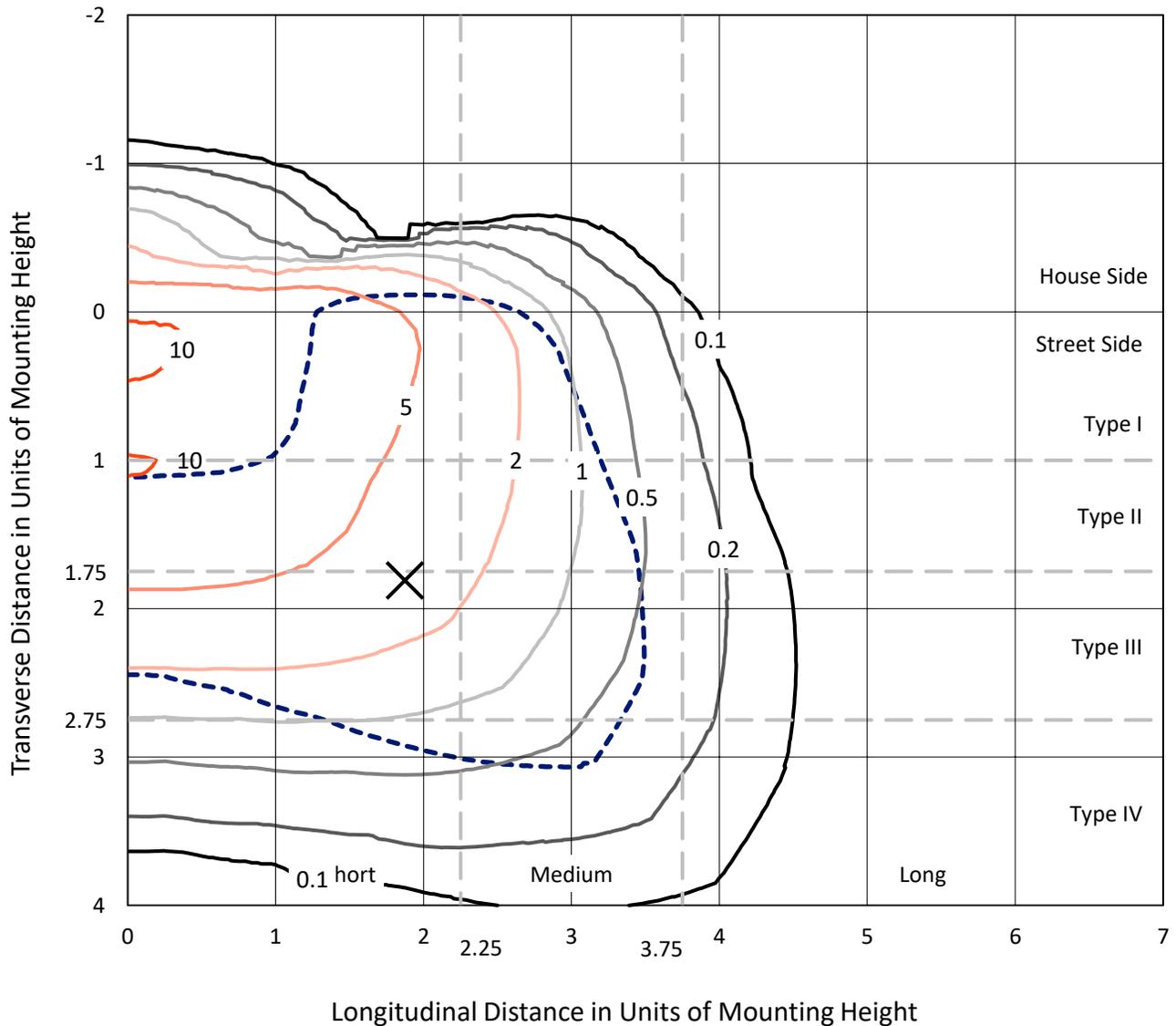


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Iso-Footcandle Lines of Horizontal Illumination

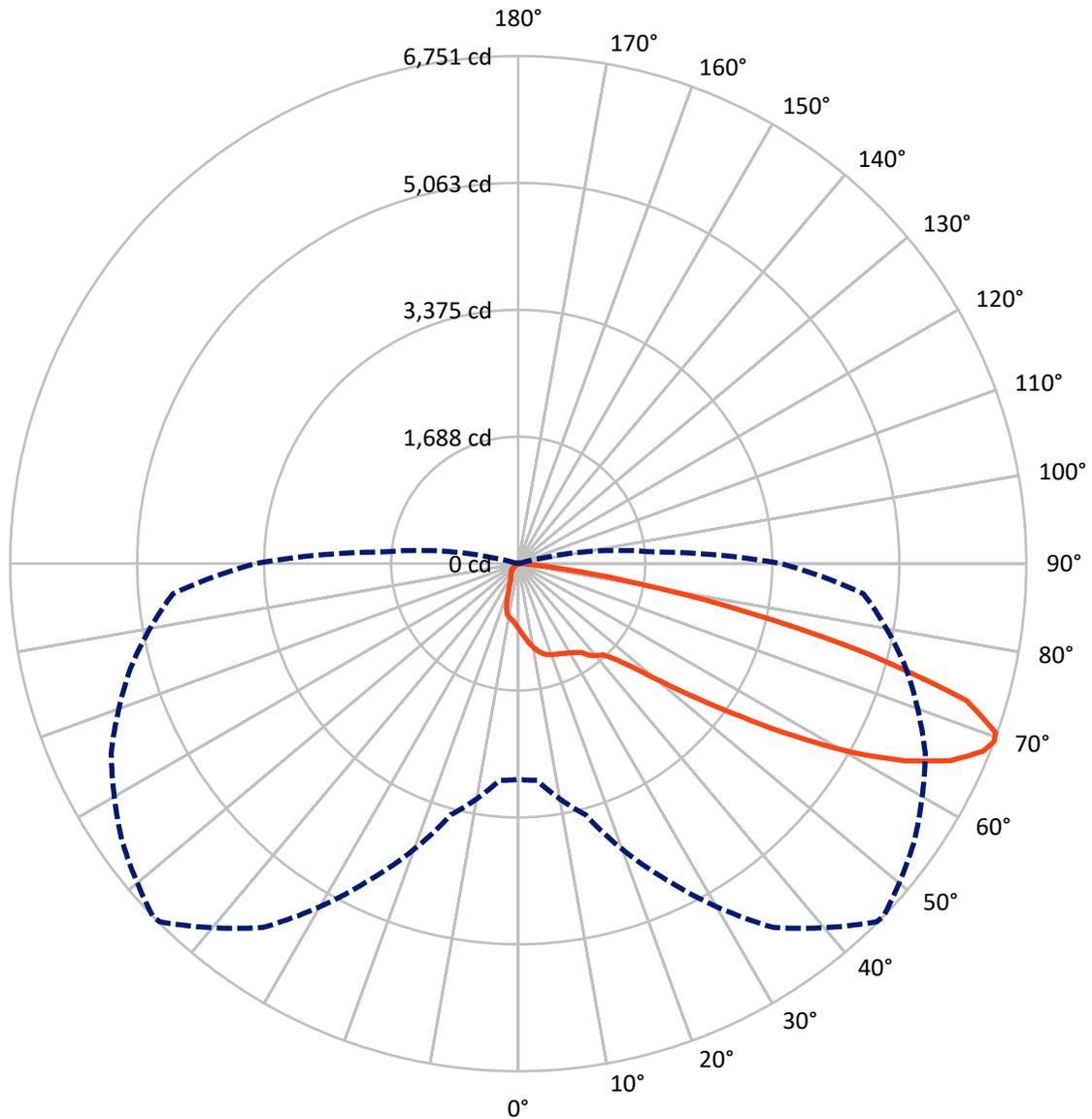
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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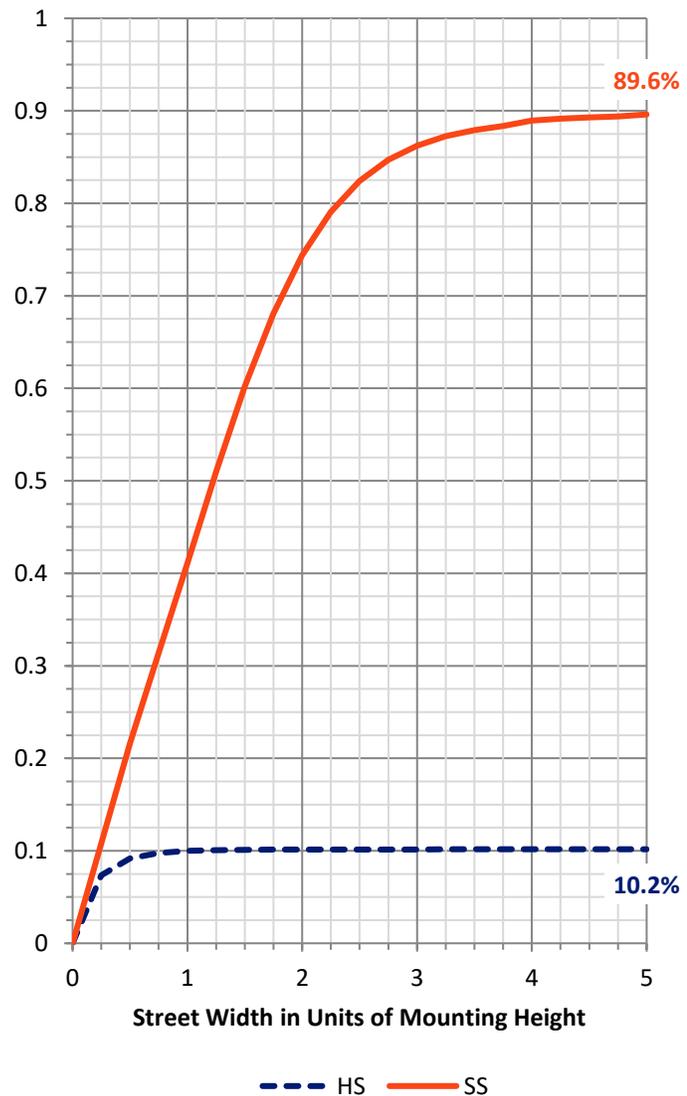
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	887.0	0.0	887.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	7756.0	0.0	7756.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	8643.0	0.0	8643.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	1.0
10°-20°	261.5	3.0
20°-30°	411.2	4.8
30°-40°	589.7	6.8
40°-50°	1019.3	11.8
50°-60°	2013.7	23.3
60°-70°	2814.3	32.6
70°-80°	1359.6	15.7
80°-90°	87.4	1.0
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°	8643.0	100.0
0°-180°	8643.0	100.0



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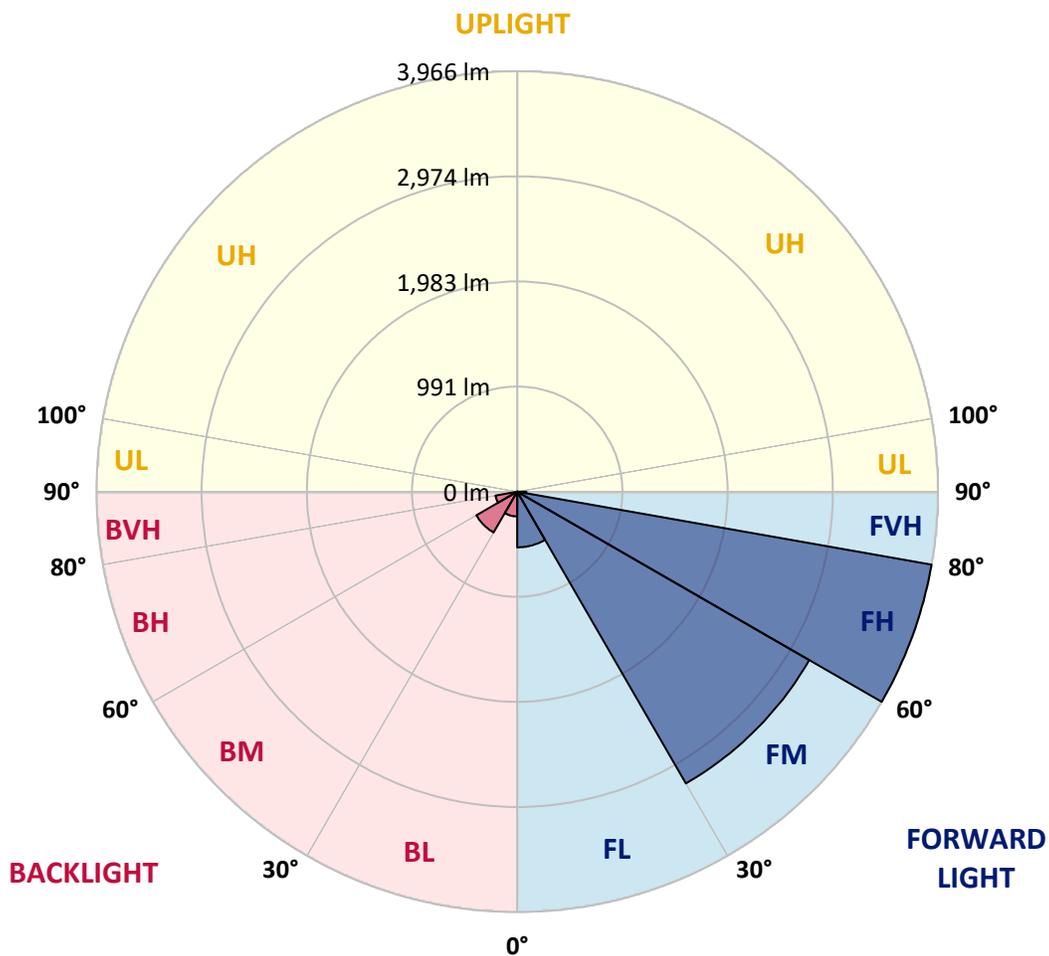
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	525.2	6.1			
FM	(30°-60°)	3178.2	36.8			
FH	(60°-80°)	3966.0	45.9			G2/5000
FVH	(80°-90°)	86.7	1.0			G1/100
BL	(0°-30°)	233.8	2.7	B1/500		
BM	(30°-60°)	444.5	5.1	B1/1000		
BH	(60°-80°)	208.0	2.4	B1/500		G1/500
BVH	(80°-90°)	0.7	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°	45°	46°	55°	65°	75°	85°
0°	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0
2.5°	962.0	960.8	955.1	952.7	938.9	930.8	927.6	917.5	902.9	888.3	872.1
5°	1071.5	1071.0	1060.5	1050.4	1024.4	1000.1	995.7	972.2	939.3	908.5	877.7
7.5°	1183.3	1178.0	1167.5	1148.0	1110.4	1071.5	1067.8	1034.6	988.0	943.4	899.2
10°	1278.1	1274.9	1261.1	1231.5	1187.4	1143.2	1138.7	1097.8	1045.1	990.4	934.1
12.5°	1351.9	1349.4	1331.2	1294.3	1247.3	1201.5	1195.5	1159.0	1102.7	1041.5	975.0
15°	1396.9	1395.6	1373.4	1334.0	1287.9	1248.1	1242.9	1210.9	1158.6	1094.6	1019.6
17.5°	1407.4	1407.8	1384.7	1345.0	1306.9	1278.5	1274.5	1250.2	1206.4	1142.8	1064.2
20°	1383.9	1388.8	1368.1	1333.6	1310.1	1295.1	1291.9	1277.3	1240.4	1180.5	1099.8
22.5°	1350.7	1353.1	1338.9	1315.8	1306.1	1308.9	1307.3	1299.2	1268.0	1212.9	1135.1
25°	1330.4	1330.4	1321.9	1302.4	1308.9	1326.3	1326.8	1325.1	1300.4	1252.6	1178.0
27.5°	1329.6	1327.2	1317.4	1302.8	1320.7	1347.4	1349.0	1360.0	1344.6	1300.8	1231.5
30°	1362.0	1359.2	1338.5	1319.5	1342.2	1370.9	1375.0	1398.9	1391.2	1353.1	1291.1
32.5°	1437.8	1427.7	1381.9	1350.7	1367.7	1402.1	1407.4	1445.5	1457.6	1417.5	1348.6
35°	1541.5	1509.5	1443.5	1409.8	1411.4	1447.5	1452.4	1508.3	1544.4	1476.7	1393.2
37.5°	1684.6	1668.8	1561.4	1471.4	1478.7	1533.4	1547.6	1608.4	1598.3	1509.1	1443.9
40°	1998.2	1973.5	1859.2	1644.1	1543.2	1603.1	1607.6	1640.0	1640.8	1582.5	1549.2
42.5°	2425.4	2415.2	2294.9	1957.3	1670.0	1649.7	1657.8	1712.5	1773.7	1737.3	1735.6
45°	2898.3	2893.0	2765.4	2373.1	1926.5	1802.5	1812.6	1886.0	2003.1	2011.2	2062.7
47.5°	3278.8	3276.4	3203.0	2837.1	2319.2	2061.5	2064.7	2142.5	2348.4	2450.1	2532.3
50°	3625.7	3637.4	3579.5	3339.2	2854.1	2467.1	2459.4	2511.3	2841.9	3008.5	3110.6
52.5°	4107.9	4124.5	3962.0	3807.6	3415.4	2970.4	2964.3	3018.6	3435.2	3560.0	3578.3
55°	4533.8	4505.5	4377.0	4332.4	4099.8	3592.0	3590.4	3638.2	4009.0	4062.1	4095.8
57.5°	4721.8	4710.9	4772.9	4875.0	4816.7	4326.7	4323.1	4286.6	4522.5	4528.1	4631.5
60°	4840.6	4854.0	5044.0	5358.9	5504.4	5117.4	5093.9	4871.4	5012.8	5000.2	5110.9
62.5°	4751.4	4777.8	5119.8	5644.6	6019.0	5807.5	5774.3	5407.1	5431.8	5388.5	5491.4
65°	4278.1	4319.0	4879.5	5590.7	6274.3	6346.9	6313.2	5880.0	5764.5	5693.2	5636.1
67.5°	3473.7	3498.0	4083.2	5121.8	6159.2	6668.6	6661.7	6294.6	6015.8	5641.7	5198.4
69°	2870.7	2894.6	3457.9	4628.2	5906.0	6737.5	6750.9	6427.5	5968.0	5328.9	4605.9
70°	2431.4	2457.0	2981.8	4205.2	5612.2	6705.5	6729.4	6414.9	5831.0	4966.6	4086.0
72.5°	1275.3	1297.2	1835.7	2897.1	4575.2	6157.2	6229.7	5872.7	4942.7	3607.0	2416.0
75°	400.8	413.3	716.9	1514.4	3132.5	4787.5	4804.1	4606.8	3509.8	1984.1	1006.2
77.5°	152.8	149.1	238.7	558.0	1583.7	3014.6	3116.3	2878.8	1841.8	701.5	232.2
80°	82.3	82.7	124.0	231.0	677.6	1549.2	1635.1	1395.2	654.5	218.8	53.5
82.5°	35.7	37.3	69.7	122.4	311.2	571.4	614.3	511.4	250.0	147.1	19.9
85°	7.7	8.5	33.6	66.5	126.8	160.5	168.2	165.7	159.3	114.3	7.7
87.5°	0.0	0.0	15.0	23.9	32.0	36.5	32.0	41.7	87.9	77.0	4.1
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°	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0
2.5°	866.8	859.5	847.0	833.2	823.4	813.3	805.2	801.6	797.5	794.7	798.3
5°	865.2	851.0	826.7	803.2	786.2	772.4	761.0	756.6	752.1	748.9	748.5
7.5°	879.4	859.5	822.2	787.8	761.4	742.8	727.4	720.9	715.7	713.2	711.2
10°	906.5	881.0	831.1	786.2	752.1	720.5	687.3	661.8	645.1	637.4	634.6
12.5°	941.8	909.8	848.2	794.7	745.2	684.4	613.9	553.2	513.8	500.9	493.2
15°	983.1	943.4	870.5	805.6	720.1	609.1	489.5	410.1	373.6	366.3	358.2
17.5°	1022.8	979.1	897.2	807.6	665.0	486.7	358.6	304.7	290.6	295.4	296.6
20°	1057.7	1014.3	923.5	789.8	564.9	365.1	277.6	264.2	269.5	278.8	280.4
22.5°	1092.9	1048.4	947.9	742.8	436.8	277.2	250.0	253.3	258.5	267.9	269.5
25°	1135.9	1089.7	970.5	656.5	327.8	235.8	237.5	242.3	247.6	256.1	256.9
27.5°	1185.3	1142.0	985.5	544.2	243.1	216.8	222.1	229.4	234.6	242.7	244.4
30°	1251.0	1210.9	990.4	427.9	203.8	199.8	202.2	211.1	218.8	226.1	227.3
32.5°	1312.6	1278.9	974.2	323.0	188.8	184.0	184.0	189.2	198.2	205.1	206.7
35°	1369.3	1347.4	922.3	236.3	177.5	169.4	165.3	165.3	171.0	176.7	178.3
37.5°	1444.3	1443.5	838.4	188.4	166.6	157.2	148.7	142.2	140.2	141.4	142.2
40°	1572.7	1573.9	729.0	169.0	157.2	144.7	131.7	120.0	109.0	105.4	105.0
42.5°	1773.3	1755.1	614.3	159.7	149.1	131.7	112.3	96.4	79.4	74.2	73.8
45°	2091.8	1983.6	492.8	151.2	140.6	117.1	92.8	71.3	57.5	53.5	53.5
47.5°	2555.8	2283.9	381.7	141.8	129.3	100.5	70.1	51.5	42.1	40.1	40.5
50°	3035.6	2578.1	292.6	130.1	115.5	83.1	51.9	37.3	32.0	32.0	32.4
52.5°	3461.1	2793.7	228.1	117.5	98.5	65.2	39.3	29.2	26.7	26.3	26.7
55°	3859.5	2932.7	174.7	102.9	78.2	48.6	30.0	23.9	22.3	21.5	21.1
57.5°	4243.7	3001.6	130.9	83.1	56.7	35.3	23.9	20.3	18.6	17.4	17.0
60°	4499.4	2945.7	90.0	61.2	39.3	25.5	19.9	17.4	15.4	14.2	13.8
62.5°	4643.6	2792.9	57.9	44.2	28.0	19.0	15.8	14.6	11.8	10.5	10.5
65°	4585.3	2540.9	40.5	31.6	20.3	14.2	11.8	11.8	8.5	6.9	6.5
67.5°	4063.3	2146.6	30.8	23.5	14.6	10.5	8.9	10.1	5.3	3.2	3.2
69°	3496.0	1779.0	26.3	19.5	12.2	8.5	7.7	9.3	3.6	2.4	2.0
70°	3038.5	1534.6	23.9	17.0	10.1	7.3	6.9	8.9	3.6	2.0	1.6
72.5°	1817.9	855.9	18.2	12.2	6.5	5.7	5.7	10.1	3.6	2.0	1.6
75°	734.7	301.5	13.4	8.5	4.9	4.9	6.9	13.0	3.2	1.6	1.2
77.5°	166.6	66.1	7.7	5.3	3.2	4.9	8.1	10.1	2.0	0.8	0.0
80°	40.5	16.2	4.9	3.2	2.0	3.6	6.1	5.7	0.4	0.0	0.0
82.5°	13.4	5.7	2.0	1.6	0.4	1.2	2.8	1.6	0.0	0.0	0.0
85°	5.7	3.2	0.8	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0
87.5°	3.6	1.2	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)