

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: P1209088

Luminaire Tested: UPW-SA2-090-740-U-T4W-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209088
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-SA2-090-740-U-T4W-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 4000K, 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: 8644 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

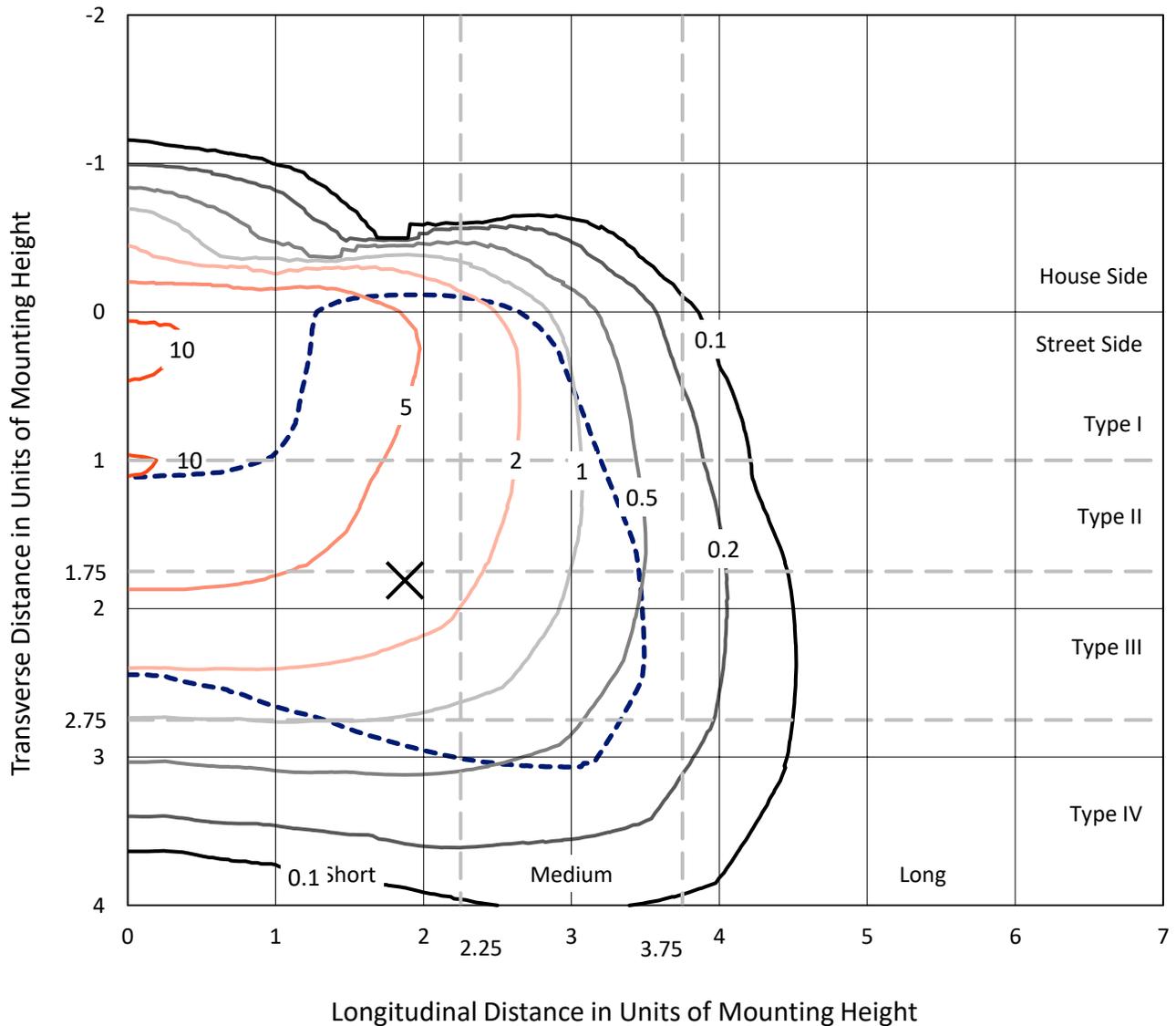


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Iso-Footcandle Lines of Horizontal Illumination

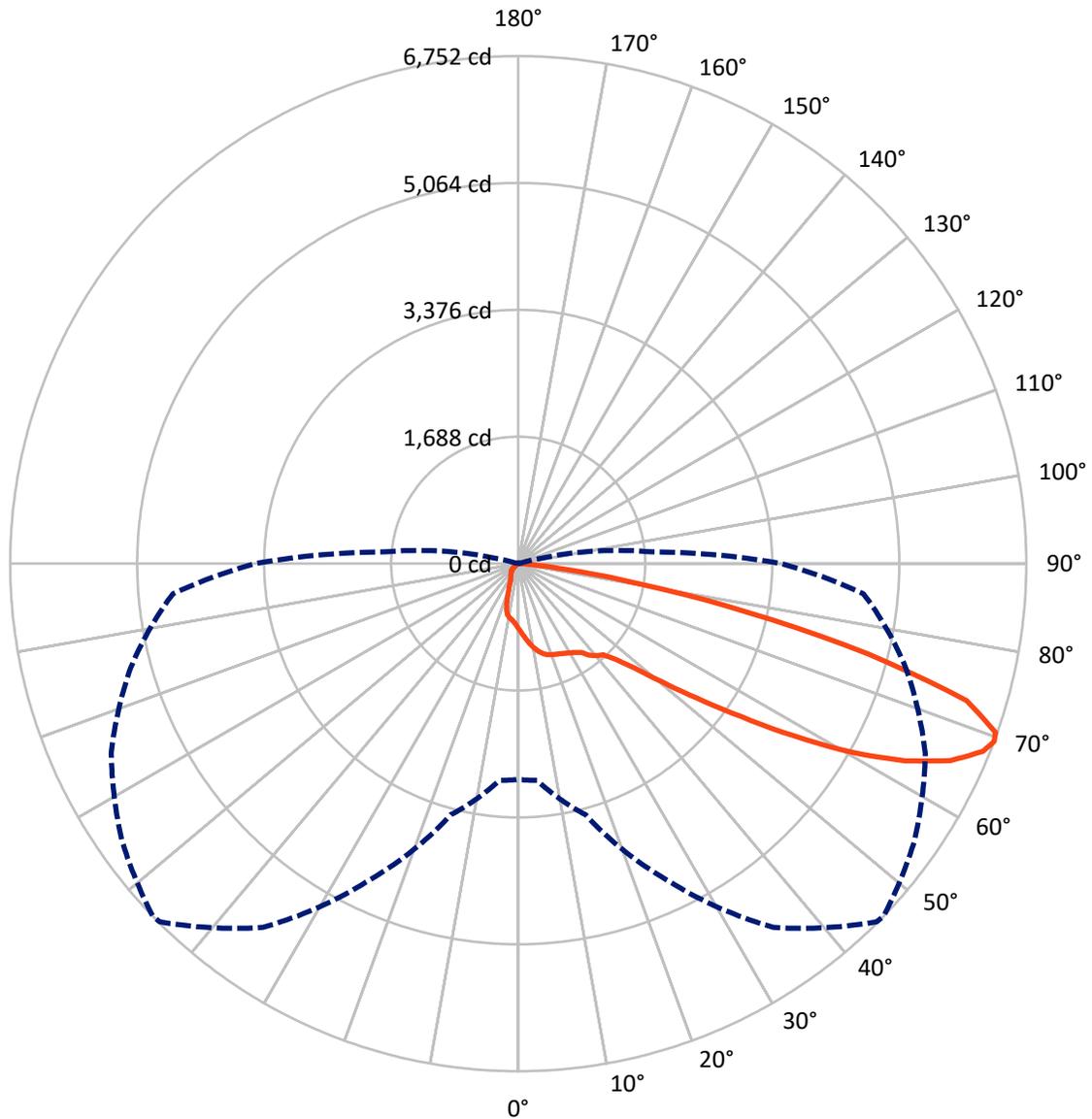
× Max cd
 - - - 1/2 Max cd



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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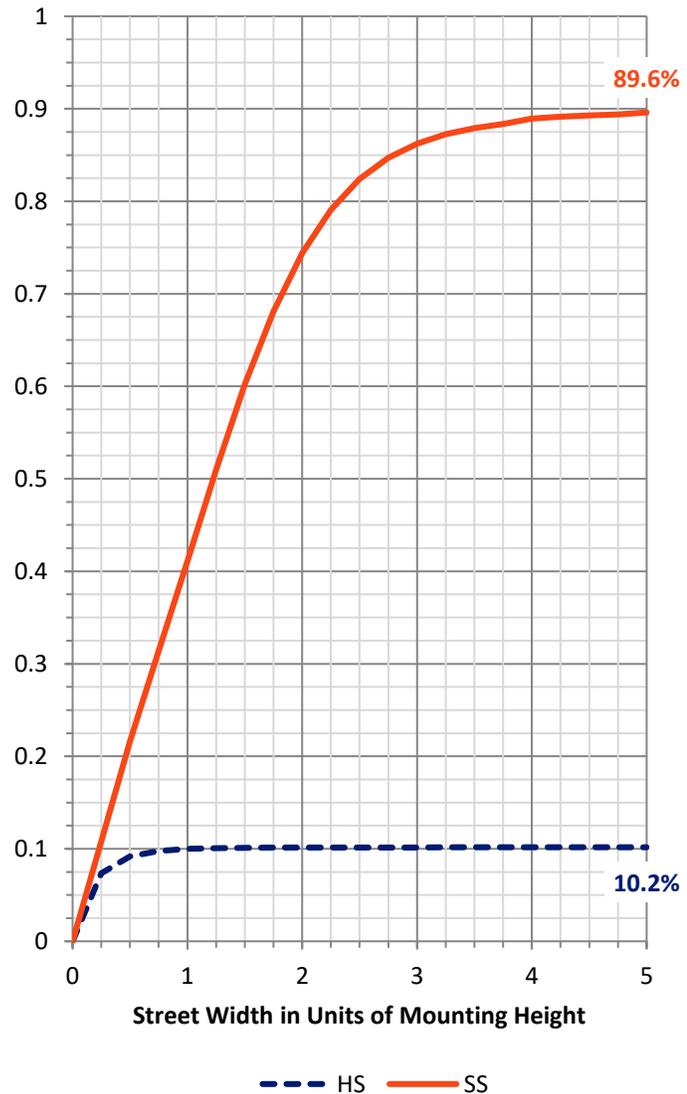
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	887.1	0.0	887.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	7756.9	0.0	7756.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	8644.0	0.0	8644.0
	% 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°	411.3	4.8
30°-40°	589.8	6.8
40°-50°	1019.4	11.8
50°-60°	2013.9	23.3
60°-70°	2814.6	32.6
70°-80°	1359.8	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°	8644.0	100.0
0°-180°	8644.0	100.0



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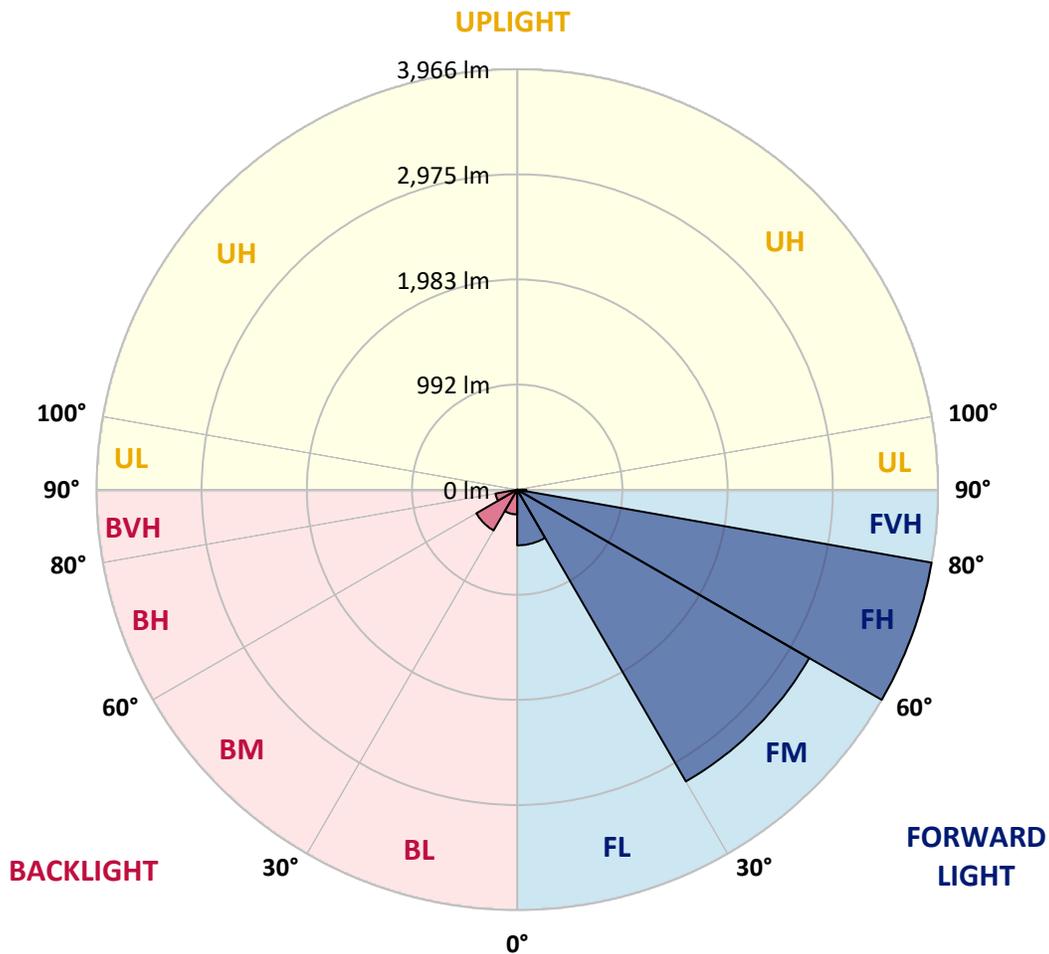
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	525.2	6.1			
FM	(30°-60°)	3178.6	36.8			
FH	(60°-80°)	3966.4	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°)	444.6	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°	866.1	866.1	866.1	866.1	866.1	866.1	866.1	866.1	866.1	866.1	866.1
2.5°	962.1	960.9	955.3	952.8	939.0	930.9	927.7	917.6	903.0	888.4	872.2
5°	1071.6	1071.2	1060.6	1050.5	1024.6	1000.2	995.8	972.3	939.5	908.7	877.8
7.5°	1183.4	1178.2	1167.6	1148.2	1110.5	1071.6	1067.9	1034.7	988.1	943.5	899.3
10°	1278.3	1275.0	1261.3	1231.7	1187.5	1143.3	1138.9	1097.9	1045.2	990.5	934.2
12.5°	1352.0	1349.6	1331.4	1294.5	1247.5	1201.7	1195.6	1159.1	1102.8	1041.6	975.1
15°	1397.0	1395.8	1373.5	1334.2	1288.0	1248.3	1243.0	1211.0	1158.7	1094.7	1019.7
17.5°	1407.6	1408.0	1384.9	1345.1	1307.0	1278.7	1274.6	1250.3	1206.5	1142.9	1064.3
20°	1384.1	1388.9	1368.2	1333.8	1310.3	1295.3	1292.1	1277.5	1240.6	1180.6	1099.9
22.5°	1350.8	1353.3	1339.1	1316.0	1306.2	1309.1	1307.5	1299.3	1268.1	1213.0	1135.2
25°	1330.6	1330.6	1322.0	1302.6	1309.1	1326.5	1326.9	1325.3	1300.6	1252.7	1178.2
27.5°	1329.7	1327.3	1317.6	1303.0	1320.8	1347.6	1349.2	1360.1	1344.7	1301.0	1231.7
30°	1362.2	1359.3	1338.7	1319.6	1342.3	1371.1	1375.1	1399.0	1391.3	1353.3	1291.2
32.5°	1438.0	1427.8	1382.0	1350.8	1367.8	1402.3	1407.6	1445.7	1457.8	1417.7	1348.8
35°	1541.7	1509.7	1443.6	1410.0	1411.6	1447.7	1452.5	1508.5	1544.5	1476.9	1393.4
37.5°	1684.8	1669.0	1561.6	1471.6	1478.9	1533.6	1547.8	1608.6	1598.4	1509.3	1444.0
40°	1998.5	1973.7	1859.5	1644.2	1543.3	1603.3	1607.8	1640.2	1641.0	1582.6	1549.4
42.5°	2425.6	2415.5	2295.1	1957.5	1670.2	1649.9	1658.0	1712.7	1773.9	1737.5	1735.8
45°	2898.6	2893.3	2765.7	2373.4	1926.7	1802.7	1812.8	1886.2	2003.3	2011.4	2062.9
47.5°	3279.2	3276.7	3203.4	2837.4	2319.5	2061.7	2064.9	2142.7	2348.6	2450.4	2532.6
50°	3626.1	3637.8	3579.9	3339.6	2854.4	2467.4	2459.7	2511.6	2842.3	3008.8	3111.0
52.5°	4108.4	4125.0	3962.5	3808.1	3415.8	2970.7	2964.7	3019.0	3435.6	3560.4	3578.7
55°	4534.3	4506.0	4377.5	4332.9	4100.3	3592.5	3590.8	3638.7	4009.5	4062.6	4096.2
57.5°	4722.4	4711.5	4773.5	4875.6	4817.2	4327.2	4323.6	4287.1	4523.0	4528.7	4632.0
60°	4841.1	4854.5	5044.6	5359.5	5505.0	5118.0	5094.4	4871.9	5013.4	5000.8	5111.5
62.5°	4752.0	4778.3	5120.4	5645.2	6019.7	5808.2	5774.9	5407.7	5432.5	5389.1	5492.0
65°	4278.6	4319.5	4880.1	5591.3	6275.0	6347.6	6314.0	5880.7	5765.2	5693.9	5636.7
67.5°	3474.1	3498.4	4083.7	5122.4	6159.9	6669.4	6662.5	6295.3	6016.5	5642.4	5199.0
69°	2871.0	2895.0	3458.3	4628.8	5906.6	6738.3	6751.7	6428.2	5968.6	5329.5	4606.5
70°	2431.7	2457.2	2982.1	4205.7	5612.8	6706.3	6730.2	6415.7	5831.7	4967.2	4086.5
72.5°	1275.4	1297.3	1835.9	2897.4	4575.7	6157.9	6230.5	5873.4	4943.3	3607.5	2416.3
75°	400.8	413.4	717.0	1514.6	3132.9	4788.1	4804.7	4607.3	3510.2	1984.3	1006.3
77.5°	152.8	149.1	238.7	558.1	1583.9	3014.9	3116.7	2879.2	1842.0	701.6	232.2
80°	82.3	82.7	124.0	231.0	677.6	1549.4	1635.3	1395.4	654.5	218.9	53.5
82.5°	35.7	37.3	69.7	122.4	311.3	571.5	614.4	511.5	250.1	147.1	19.9
85°	7.7	8.5	33.6	66.5	126.9	160.5	168.2	165.8	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°	866.1	866.1	866.1	866.1	866.1	866.1	866.1	866.1	866.1	866.1	866.1
2.5°	866.9	859.6	847.0	833.3	823.5	813.4	805.3	801.7	797.6	794.8	798.4
5°	865.3	851.1	826.8	803.3	786.3	772.5	761.1	756.7	752.2	749.0	748.6
7.5°	879.5	859.6	822.3	787.9	761.5	742.9	727.5	721.0	715.7	713.3	711.3
10°	906.6	881.1	831.2	786.3	752.2	720.6	687.4	661.8	645.2	637.5	634.7
12.5°	941.9	909.9	848.3	794.8	745.3	684.5	614.0	553.2	513.9	500.9	493.2
15°	983.2	943.5	870.6	805.7	720.2	609.1	489.6	410.1	373.7	366.4	358.3
17.5°	1022.9	979.2	897.3	807.7	665.1	486.7	358.7	304.8	290.6	295.5	296.7
20°	1057.8	1014.4	923.6	789.9	565.0	365.2	277.6	264.2	269.5	278.8	280.5
22.5°	1093.1	1048.5	948.0	742.9	436.9	277.2	250.1	253.3	258.6	267.9	269.5
25°	1136.0	1089.8	970.7	656.6	327.9	235.9	237.5	242.4	247.6	256.1	257.0
27.5°	1185.5	1142.1	985.7	544.3	243.2	216.8	222.1	229.4	234.7	242.8	244.4
30°	1251.1	1211.0	990.5	428.0	203.9	199.8	202.2	211.2	218.9	226.1	227.4
32.5°	1312.7	1279.1	974.3	323.0	188.9	184.0	184.0	189.3	198.2	205.1	206.7
35°	1369.5	1347.6	922.4	236.3	177.5	169.4	165.4	165.4	171.0	176.7	178.3
37.5°	1444.4	1443.6	838.5	188.5	166.6	157.3	148.7	142.3	140.2	141.4	142.3
40°	1572.9	1574.1	729.1	169.0	157.3	144.7	131.7	120.0	109.0	105.4	105.0
42.5°	1773.5	1755.3	614.4	159.7	149.1	131.7	112.3	96.5	79.4	74.2	73.8
45°	2092.1	1983.9	492.8	151.2	140.6	117.1	92.8	71.3	57.6	53.5	53.5
47.5°	2556.1	2284.2	381.8	141.9	129.3	100.5	70.1	51.5	42.1	40.1	40.5
50°	3036.0	2578.4	292.6	130.1	115.5	83.1	51.9	37.3	32.0	32.0	32.4
52.5°	3461.5	2794.0	228.2	117.5	98.5	65.3	39.3	29.2	26.7	26.3	26.7
55°	3859.9	2933.1	174.7	102.9	78.2	48.6	30.0	23.9	22.3	21.5	21.1
57.5°	4244.2	3002.0	130.9	83.1	56.7	35.3	23.9	20.3	18.6	17.4	17.0
60°	4499.9	2946.0	90.0	61.2	39.3	25.5	19.9	17.4	15.4	14.2	13.8
62.5°	4644.2	2793.2	58.0	44.2	28.0	19.0	15.8	14.6	11.8	10.5	10.5
65°	4585.8	2541.1	40.5	31.6	20.3	14.2	11.8	11.8	8.5	6.9	6.5
67.5°	4063.8	2146.8	30.8	23.5	14.6	10.5	8.9	10.1	5.3	3.2	3.2
69°	3496.4	1779.2	26.3	19.5	12.2	8.5	7.7	9.3	3.6	2.4	2.0
70°	3038.8	1534.8	23.9	17.0	10.1	7.3	6.9	8.9	3.6	2.0	1.6
72.5°	1818.1	856.0	18.2	12.2	6.5	5.7	5.7	10.1	3.6	2.0	1.6
75°	734.8	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)