

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: P1208141

Luminaire Tested: UPW-SA1-040-750-U-T4FT-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1208141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA1-040-750-U-T4FT-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD THROW OPT WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4334 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

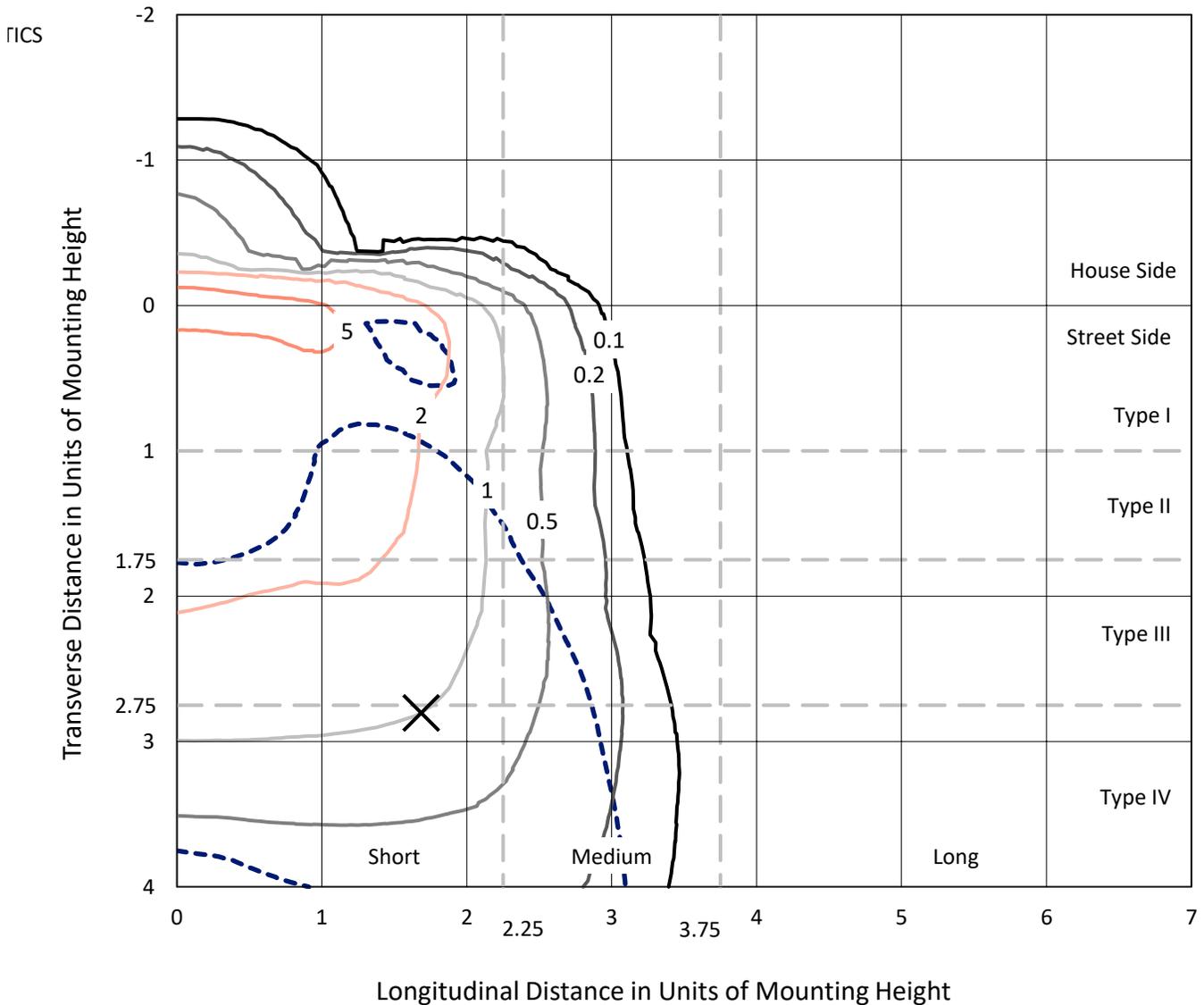
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

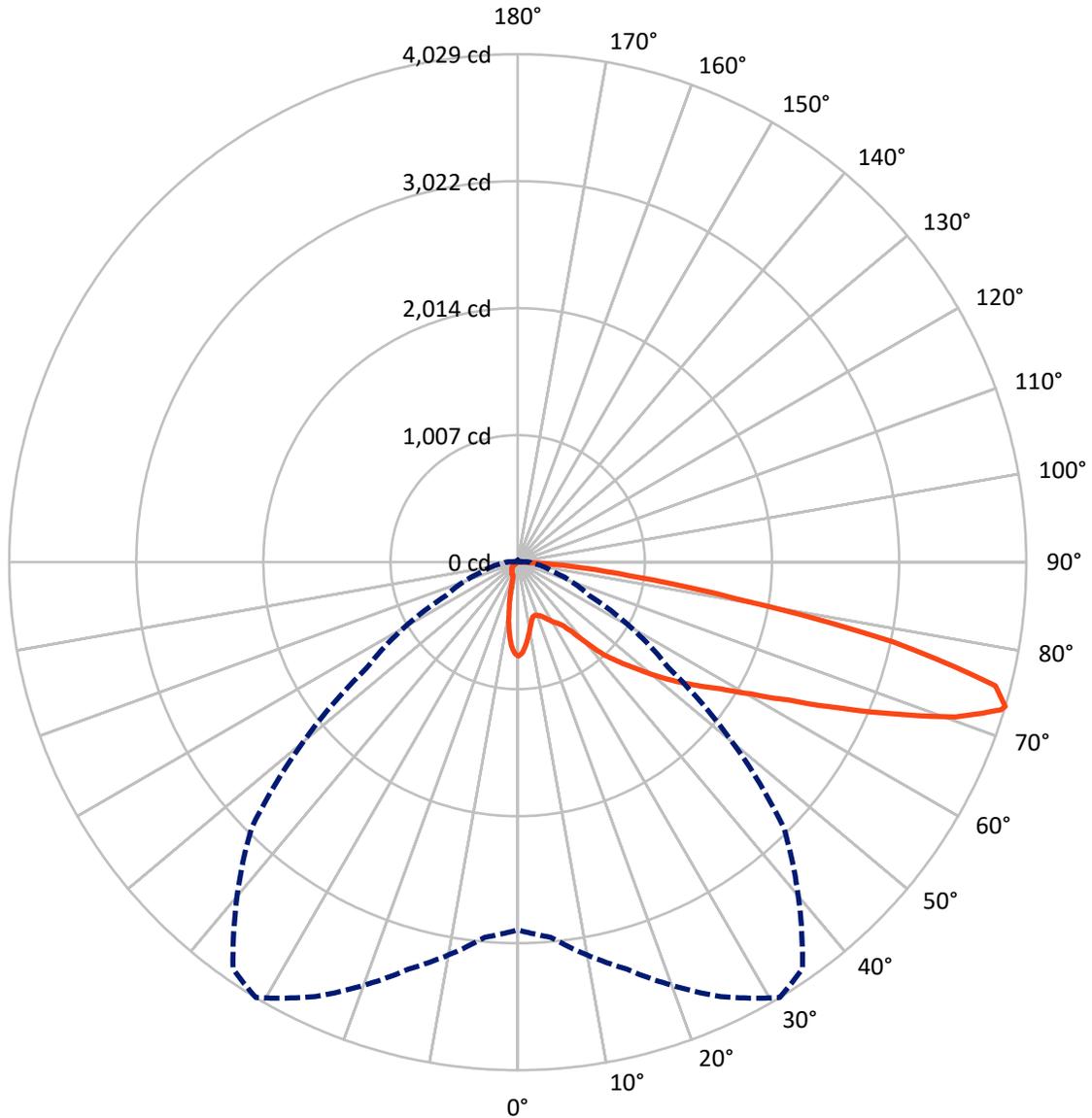
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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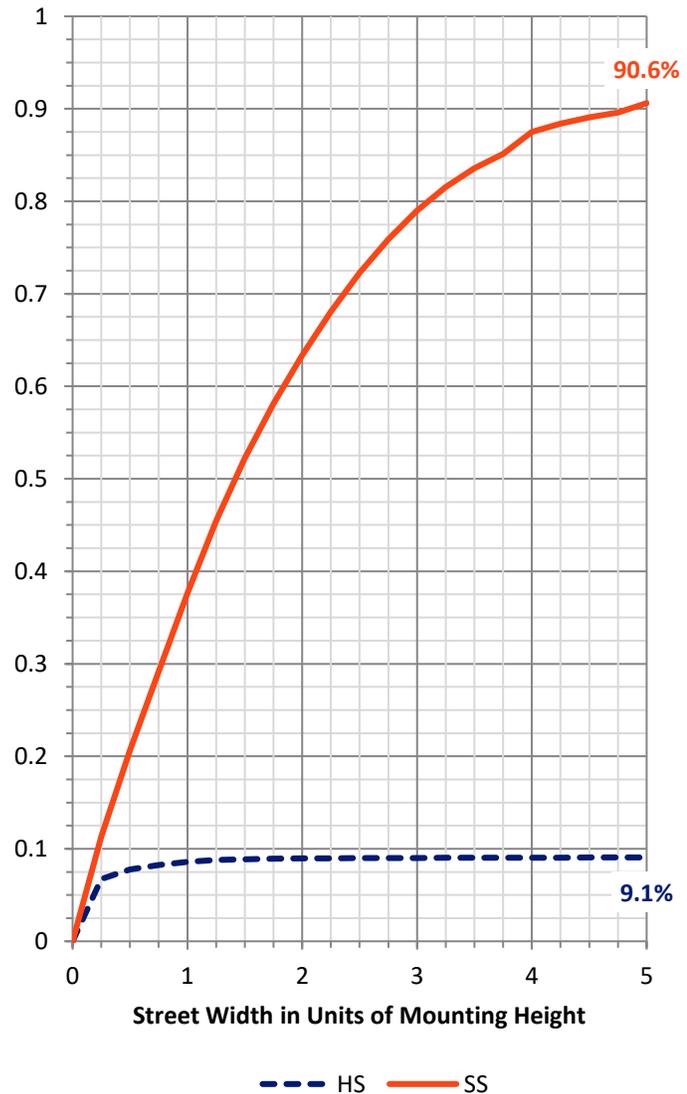
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	395.1	0.0	395.1
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	3938.9	0.0	3938.9
	% Fixture	90.9	0.0	90.9
Total	Lumens	4334.0	0.0	4334.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	1.4
10°-20°	134.2	3.1
20°-30°	201.1	4.6
30°-40°	320.0	7.4
40°-50°	571.4	13.2
50°-60°	886.7	20.5
60°-70°	1178.8	27.2
70°-80°	886.7	20.5
80°-90°	93.2	2.1
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°	4334.0	100.0
0°-180°	4334.0	100.0



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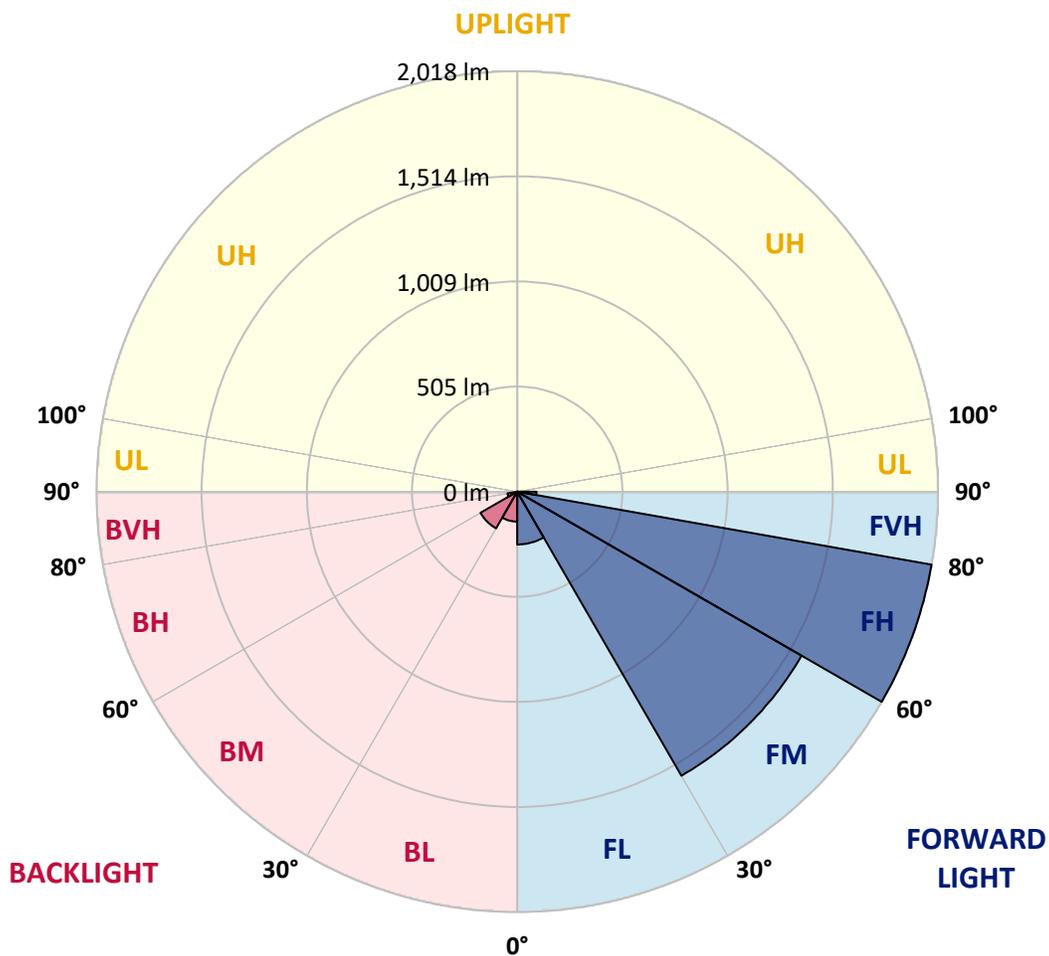
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	253.5	5.9			
FM	(30°-60°)	1574.8	36.3			
FH	(60°-80°)	2018.2	46.6			G2/5000
FVH	(80°-90°)	92.4	2.1			G1/100
BL	(0°-30°)	143.7	3.3	B1/500		
BM	(30°-60°)	203.3	4.7	B0/220		
BH	(60°-80°)	47.3	1.1	B0/110		G0/110
BVH	(80°-90°)	0.8	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°	31°	35°	45°	55°	65°	75°	85°
0°	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7
2.5°	706.7	709.6	712.8	713.4	718.7	719.0	726.6	732.3	738.0	743.6	745.5
5°	634.1	639.0	644.7	650.4	661.7	666.1	684.8	703.9	722.1	739.5	748.0
7.5°	556.7	562.2	570.3	584.5	597.0	605.7	635.2	669.1	703.0	735.1	753.5
10°	486.1	491.2	499.7	514.7	534.0	545.9	585.6	632.6	682.5	731.0	761.8
12.5°	441.1	443.9	448.5	464.7	482.1	495.4	542.1	600.4	665.5	730.8	775.2
15°	432.9	433.7	429.9	437.1	450.7	463.6	510.9	574.3	652.6	734.2	792.5
17.5°	446.0	445.6	432.9	432.0	442.8	453.4	495.6	556.3	643.5	742.1	815.0
20°	465.9	464.5	442.4	438.4	449.8	459.8	494.6	549.5	640.1	755.2	842.4
22.5°	492.4	489.9	455.3	451.1	463.4	473.8	507.7	556.1	643.0	772.8	874.2
25°	525.3	521.5	477.6	472.9	485.5	495.8	531.3	574.9	651.9	794.2	914.5
27.5°	562.4	556.9	513.2	501.1	515.4	526.2	562.6	603.8	665.9	816.9	963.9
30°	597.4	590.2	550.8	530.8	548.2	560.3	596.6	638.1	688.4	851.9	1031.6
32.5°	632.6	624.6	584.3	560.5	576.2	589.4	631.6	685.4	730.6	905.4	1121.5
35°	713.6	705.2	655.8	616.5	616.3	623.7	680.6	750.1	786.4	979.8	1228.8
37.5°	850.0	845.1	798.1	723.6	703.7	695.4	747.4	827.3	866.6	1082.2	1349.9
40°	999.3	995.1	942.3	874.8	844.5	824.1	843.2	934.8	979.8	1207.4	1473.5
42.5°	1167.9	1147.8	1053.6	1033.5	1006.3	990.8	973.7	1067.4	1118.9	1343.5	1596.1
45°	1321.0	1287.1	1165.0	1134.4	1128.3	1132.1	1141.6	1245.5	1275.4	1505.3	1718.3
47.5°	1412.2	1385.5	1291.8	1262.5	1260.8	1286.1	1358.2	1446.8	1431.3	1646.4	1825.8
50°	1499.0	1474.8	1397.0	1404.2	1412.0	1446.4	1604.0	1653.8	1573.6	1774.3	1924.4
52.5°	1569.2	1532.3	1491.6	1532.1	1570.7	1626.0	1857.6	1839.6	1674.6	1876.1	2008.8
55°	1609.7	1592.9	1612.7	1653.4	1725.9	1815.8	2097.0	1994.2	1748.4	1969.0	2065.0
57.5°	1758.1	1725.3	1764.5	1799.7	1894.3	2020.1	2302.1	2109.3	1801.6	2026.4	2078.0
60°	1937.8	1911.3	1934.4	1992.9	2120.6	2268.4	2493.8	2203.3	1829.4	2063.3	2044.5
62.5°	2223.7	2188.7	2174.2	2239.8	2409.0	2570.4	2639.3	2268.4	1823.3	2047.0	1929.5
65°	2606.7	2570.4	2505.9	2565.3	2780.6	2894.5	2802.0	2282.2	1780.8	1914.9	1639.0
67.5°	2999.0	2972.7	2917.6	3017.7	3212.0	3248.6	2974.0	2248.7	1644.3	1552.6	1158.0
70°	3258.2	3246.9	3282.8	3504.2	3677.5	3666.9	3131.8	2068.6	1281.6	954.8	572.8
72.5°	3071.3	3125.2	3389.9	3791.4	4003.0	3916.5	3050.8	1588.5	732.5	367.3	165.6
73°	2916.5	2985.5	3341.7	3802.2	4028.7	3933.9	2982.7	1458.1	624.4	289.9	125.6
75°	2029.0	2113.6	2766.6	3541.1	3908.6	3748.1	2486.2	892.4	289.3	128.5	50.7
77.5°	985.1	1047.7	1523.4	2558.5	3039.7	2928.4	1547.8	332.5	130.6	80.4	23.3
80°	367.7	408.9	661.3	1302.2	1756.7	1802.7	680.8	125.8	87.0	64.7	11.9
82.5°	96.3	107.3	243.9	580.7	900.3	942.3	214.6	63.4	63.6	53.2	7.2
85°	30.8	35.2	76.1	260.6	424.2	372.4	56.0	30.8	46.2	39.7	4.0
87.5°	3.8	4.9	24.2	61.3	93.5	52.0	8.7	9.1	19.7	22.1	2.3
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°	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7
2.5°	747.4	746.3	746.5	741.0	737.4	730.2	722.8	719.4	715.8	714.3	715.8
5°	751.2	749.3	743.8	726.8	708.8	685.4	663.6	647.1	626.3	620.5	626.5
7.5°	757.1	753.3	737.2	702.6	662.5	618.0	568.0	531.5	501.6	482.3	489.3
10°	765.8	758.6	726.2	667.4	595.7	516.8	445.8	390.4	351.2	335.1	334.5
12.5°	780.5	766.9	712.6	621.6	514.1	408.9	315.8	255.8	224.0	203.4	203.0
15°	796.6	776.6	695.4	566.7	419.1	292.9	203.4	157.8	137.2	130.6	129.8
17.5°	816.3	787.9	673.1	499.0	319.6	194.1	132.8	119.6	118.8	118.1	118.1
20°	841.1	801.2	644.5	421.6	226.7	129.6	112.8	113.7	114.1	113.3	113.5
22.5°	870.0	814.8	610.4	338.5	153.3	108.4	107.9	109.0	109.4	109.0	109.2
25°	903.5	830.5	568.8	251.3	110.7	102.9	103.9	105.4	106.5	106.5	106.5
27.5°	945.0	849.6	518.7	175.4	95.6	97.1	100.1	102.9	104.3	104.8	104.8
30°	999.1	873.3	458.7	120.2	87.0	89.5	95.0	100.3	103.1	103.5	103.7
32.5°	1067.4	900.1	389.2	88.9	79.5	81.4	87.4	96.3	101.6	102.4	102.4
35°	1145.7	931.0	314.3	77.4	74.2	74.9	79.5	89.7	99.0	101.4	101.6
37.5°	1231.3	961.6	239.0	72.3	69.8	69.8	73.2	81.9	92.9	100.1	101.0
40°	1311.3	980.0	167.5	68.3	65.7	65.7	68.7	75.1	85.5	96.3	98.6
42.5°	1385.1	986.4	116.6	64.5	61.9	62.6	65.1	70.2	78.0	88.9	91.0
45°	1461.0	985.3	85.0	60.0	58.1	60.0	61.9	65.7	71.5	77.6	78.0
47.5°	1518.3	976.4	67.4	55.8	54.5	57.0	58.7	61.3	64.5	64.0	64.0
50°	1571.9	954.8	54.3	50.1	50.9	53.9	54.7	55.6	55.8	51.7	51.3
52.5°	1612.7	921.1	43.5	43.9	47.3	50.3	49.4	48.1	46.0	41.1	40.3
55°	1626.2	856.2	34.1	36.3	42.0	45.8	42.6	39.9	35.8	31.8	31.0
57.5°	1601.6	772.4	27.8	28.2	35.4	38.6	35.0	31.8	27.4	24.0	23.3
60°	1549.5	679.3	22.9	21.2	27.4	30.1	27.8	24.6	20.6	18.0	17.8
62.5°	1446.0	580.0	18.9	16.5	20.8	23.1	21.6	19.3	15.9	14.2	14.0
65°	1228.4	464.0	15.3	13.4	16.1	18.0	16.8	15.1	12.5	11.2	11.0
67.5°	857.4	313.7	12.5	11.0	12.7	14.2	13.1	12.3	10.0	9.8	10.0
70°	413.6	151.2	10.4	8.9	10.0	11.0	10.6	10.0	9.5	11.0	12.7
72.5°	118.6	50.7	8.3	7.4	8.1	8.7	9.1	8.9	10.4	13.4	15.5
73°	91.2	40.9	7.8	7.0	7.6	8.5	8.9	8.7	10.6	13.6	15.5
75°	39.0	19.7	5.9	5.7	6.4	7.4	7.8	7.8	10.6	13.8	14.8
77.5°	17.6	10.6	3.8	4.5	5.5	5.9	6.6	6.6	8.5	10.6	10.6
80°	10.0	5.7	3.0	3.4	4.0	4.0	4.0	3.6	3.8	4.2	4.7
82.5°	6.4	3.8	2.3	2.8	2.5	2.1	1.7	1.7	1.5	1.7	2.1
85°	3.6	2.1	2.1	1.7	1.1	0.8	1.1	0.8	0.2	0.0	0.2
87.5°	2.1	1.3	0.6	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)