

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: P1208922

Luminaire Tested: UPW-SA2-070-827-U-T3R-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1208922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-070-827-U-T3R-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTI
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5499 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

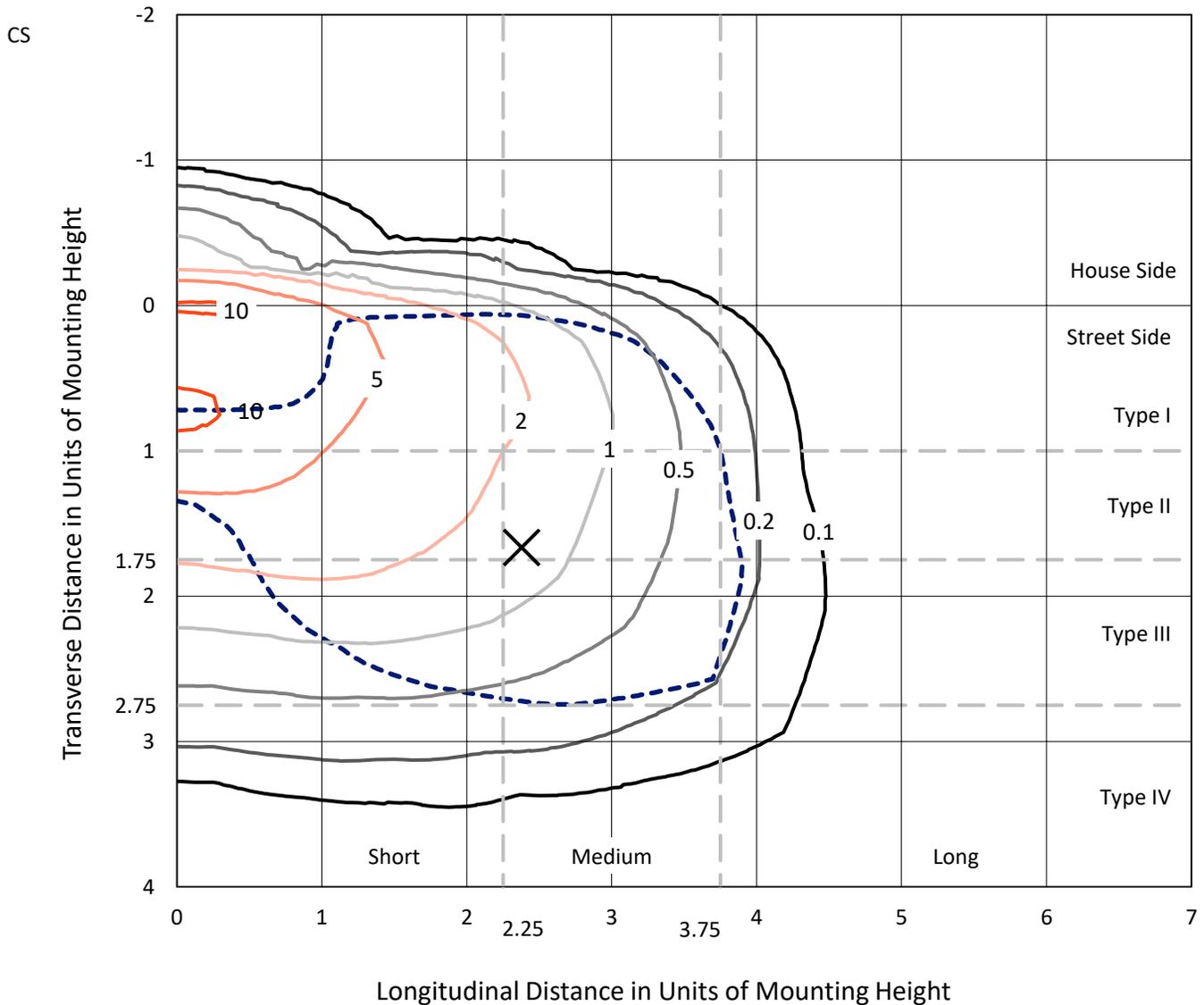


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

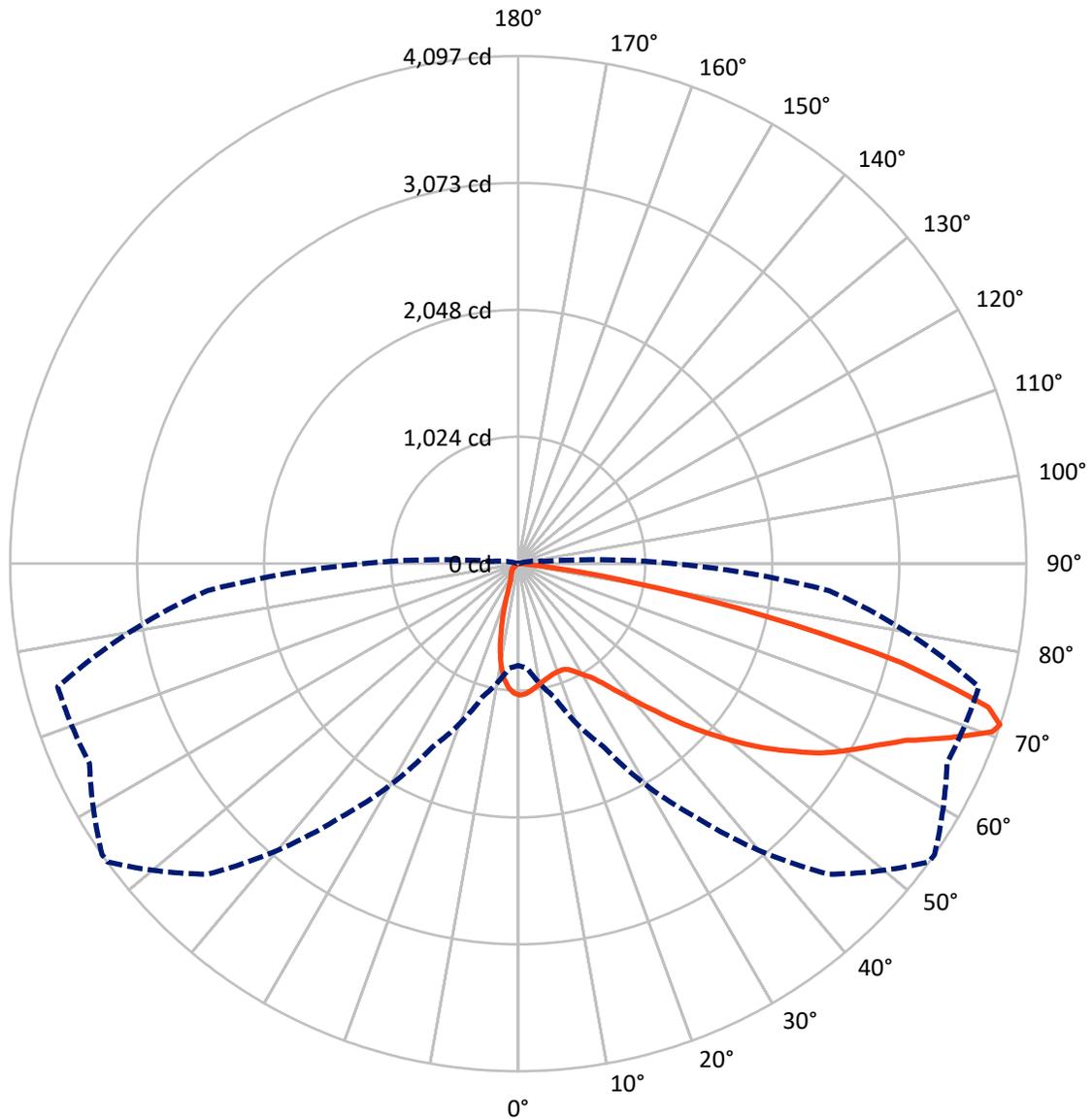


Based on 10 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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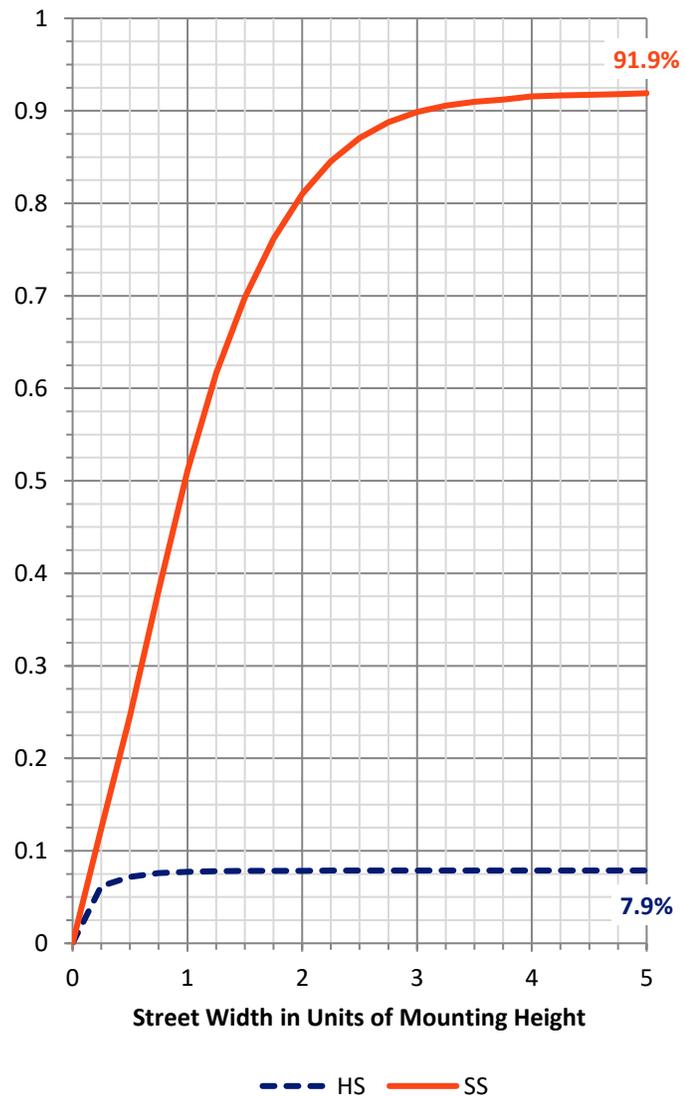
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	435.4	0.0	435.4
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	5063.6	0.0	5063.6
	% Fixture	92.1	0.0	92.1
Total	Lumens	5499.0	0.0	5499.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	1.6
10°-20°	204.1	3.7
20°-30°	328.1	6.0
30°-40°	557.4	10.1
40°-50°	865.1	15.7
50°-60°	1163.1	21.2
60°-70°	1422.9	25.9
70°-80°	831.9	15.1
80°-90°	36.0	0.7
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°	5499.0	100.0
0°-180°	5499.0	100.0



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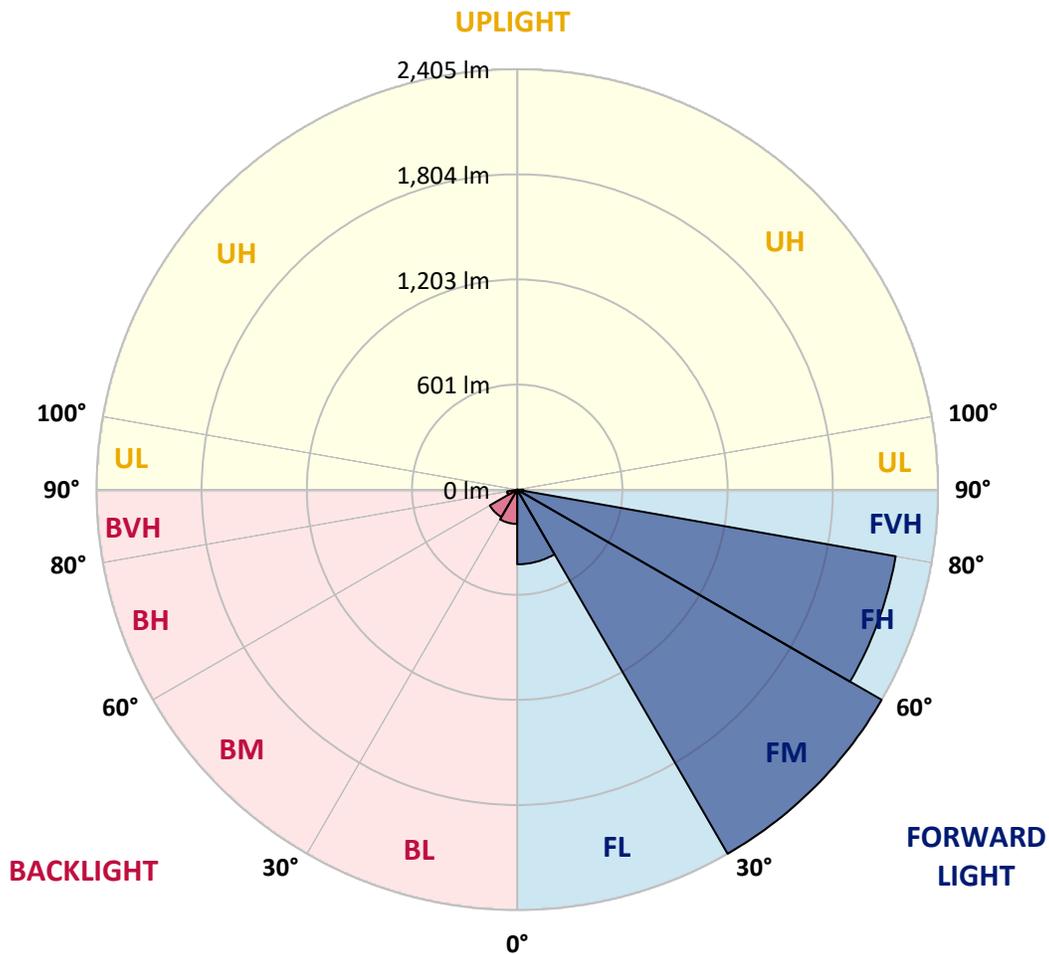
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	426.6	7.8			
FM (30°-60°)	2405.1	43.7			
FH (60°-80°)	2196.5	39.9			G2/5000
FVH (80°-90°)	35.4	0.6			G1/100
BL (0°-30°)	196.0	3.6	B1/500		
BM (30°-60°)	180.5	3.3	B0/220		
BH (60°-80°)	58.3	1.1	B0/110		G0/110
BVH (80°-90°)	0.6	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1060.5	1060.5	1060.5	1060.5	1060.5	1060.5	1060.5	1060.5	1060.5	1060.5	1060.5
2.5°	1029.4	1030.6	1035.1	1037.0	1041.7	1049.6	1053.6	1053.8	1060.3	1062.7	1064.7
5°	956.6	964.0	971.4	979.3	993.6	1012.6	1031.4	1033.1	1053.8	1069.1	1077.3
7.5°	893.8	900.5	909.4	922.0	942.2	972.1	1003.5	1007.2	1046.4	1081.2	1099.5
10°	829.4	834.8	847.7	866.2	894.1	934.1	976.3	982.5	1039.8	1097.5	1129.6
12.5°	760.5	763.7	779.3	805.9	846.9	897.8	953.3	961.5	1035.6	1116.3	1165.2
15°	708.2	709.6	724.4	752.1	799.0	865.2	935.6	945.4	1036.6	1138.8	1204.0
17.5°	694.8	695.6	703.5	722.5	764.0	836.1	921.5	933.6	1039.5	1160.7	1243.0
20°	748.9	743.7	735.6	732.6	750.4	818.5	913.1	926.7	1043.5	1180.3	1278.0
22.5°	897.3	882.0	848.2	803.0	775.6	819.8	915.3	928.9	1056.1	1204.2	1318.5
25°	1117.5	1096.3	1038.8	949.9	864.5	855.3	933.8	947.7	1080.5	1232.8	1357.3
27.5°	1368.2	1347.2	1276.8	1149.9	1004.2	925.7	976.3	989.1	1116.8	1258.3	1386.9
30°	1608.2	1602.2	1519.3	1375.1	1180.0	1039.8	1031.1	1042.0	1143.7	1273.6	1410.4
32.5°	1811.6	1802.2	1735.6	1595.3	1381.2	1176.8	1095.6	1098.8	1164.0	1293.3	1441.0
35°	2000.3	1988.7	1930.1	1797.5	1587.7	1344.2	1194.8	1190.1	1208.2	1333.1	1485.4
37.5°	2165.0	2175.6	2110.6	1984.5	1772.9	1518.3	1328.7	1314.6	1277.3	1397.8	1549.9
40°	2302.7	2302.7	2268.9	2163.7	1972.9	1698.3	1480.0	1461.5	1381.2	1497.5	1631.6
42.5°	2352.4	2363.0	2375.6	2316.1	2151.9	1885.4	1648.7	1629.4	1527.7	1639.0	1734.8
45°	2355.3	2372.1	2436.6	2436.3	2313.6	2071.4	1838.8	1829.6	1715.3	1820.8	1862.7
47.5°	2313.6	2334.6	2440.8	2501.0	2441.7	2244.5	2046.7	2035.3	1935.8	2043.5	1996.6
50°	2249.2	2272.4	2395.8	2526.4	2528.9	2395.1	2265.7	2248.7	2178.5	2298.0	2134.8
52.5°	2133.8	2178.8	2355.6	2532.4	2586.2	2525.2	2474.1	2466.7	2450.1	2543.2	2245.0
55°	1887.2	1937.1	2254.6	2534.3	2639.3	2640.5	2669.4	2671.4	2704.7	2772.4	2326.9
57.5°	1770.6	1798.8	2078.3	2543.7	2718.0	2771.4	2868.4	2883.7	2935.3	2989.9	2420.5
60°	1697.3	1730.6	1991.4	2530.9	2841.7	2943.0	3052.9	3058.0	3113.4	3214.3	2547.2
62.5°	1638.8	1671.6	1936.6	2481.5	2980.8	3149.4	3233.1	3233.6	3275.1	3481.8	2691.1
65°	1494.3	1522.0	1825.7	2425.9	3072.6	3353.6	3442.5	3439.3	3473.1	3763.7	2858.3
67.5°	1285.4	1306.7	1599.3	2215.3	3038.0	3539.3	3758.5	3747.9	3706.9	4007.4	2924.0
70°	993.8	1001.5	1260.5	1846.2	2714.1	3610.6	4064.0	4058.5	3850.4	3963.7	2683.2
71°	821.5	846.7	1110.9	1629.4	2497.1	3544.7	4093.6	4096.8	3814.3	3844.7	2517.5
72.5°	477.0	498.5	805.2	1251.4	2120.0	3269.7	3940.0	3963.2	3646.0	3497.1	2150.4
75°	102.2	109.4	298.5	605.7	1166.2	2291.6	3109.9	3192.6	2971.6	2379.0	1296.1
77.5°	71.1	76.8	127.9	274.8	385.4	1132.4	1931.9	2025.2	1775.3	894.1	414.8
80°	56.3	62.7	99.8	135.8	104.2	365.2	904.9	962.0	592.1	199.5	69.9
82.5°	31.4	37.3	77.8	73.3	40.0	69.4	253.3	286.4	118.5	40.2	16.5
85°	9.1	11.1	50.1	53.3	17.0	13.3	43.2	53.6	22.5	10.6	7.4
87.5°	0.0	0.0	24.2	20.5	4.9	2.0	4.0	4.4	4.4	4.4	4.9
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°	1060.5	1060.5	1060.5	1060.5	1060.5	1060.5	1060.5	1060.5	1060.5	1060.5	1060.5
2.5°	1064.7	1066.4	1060.3	1052.1	1043.5	1032.8	1021.7	1013.1	1012.8	1008.6	1004.5
5°	1077.8	1076.8	1059.8	1033.8	1003.2	971.4	941.0	906.7	895.3	881.2	876.5
7.5°	1102.0	1095.1	1059.0	1002.2	935.1	868.4	799.5	730.1	700.5	673.8	669.1
10°	1132.4	1119.3	1054.3	954.8	831.6	708.6	604.7	510.4	468.9	437.0	435.6
12.5°	1164.0	1144.0	1041.2	883.2	696.1	523.2	403.5	310.6	276.1	253.8	255.8
15°	1197.0	1167.2	1013.1	786.7	541.7	355.1	247.9	193.3	179.5	173.8	175.3
17.5°	1230.9	1183.2	973.8	670.4	389.4	229.1	171.6	156.3	156.3	157.5	158.0
20°	1260.3	1191.9	916.1	540.0	264.0	166.9	150.1	147.9	149.1	151.1	151.4
22.5°	1289.4	1192.4	840.7	407.9	184.7	146.2	143.0	142.0	142.7	144.9	145.2
25°	1313.1	1186.4	746.4	290.1	147.4	137.8	136.3	135.8	136.3	139.0	139.0
27.5°	1322.7	1164.9	631.4	204.0	132.1	128.4	127.9	128.4	129.1	131.1	131.4
30°	1323.7	1127.4	505.9	147.7	119.8	115.8	116.8	118.5	117.8	117.3	117.8
32.5°	1326.2	1084.0	383.7	121.5	109.4	103.2	102.0	102.0	99.0	97.3	96.3
35°	1334.3	1032.8	278.3	109.1	98.8	91.6	86.9	81.5	75.8	72.8	72.1
37.5°	1347.2	979.3	199.3	101.0	89.4	81.2	72.3	62.7	54.6	52.3	52.3
40°	1370.6	924.0	147.4	94.6	82.0	71.9	58.5	45.9	38.5	37.3	37.3
42.5°	1407.7	865.7	117.5	88.9	75.6	62.2	44.7	33.3	27.9	27.2	26.9
45°	1446.2	801.5	102.7	83.5	68.6	51.1	33.1	24.7	21.5	20.7	20.7
47.5°	1484.7	733.1	95.6	78.3	62.0	39.8	24.7	19.5	18.0	18.0	18.3
50°	1517.3	661.7	90.4	72.6	53.3	30.1	19.5	16.5	16.0	17.0	17.3
52.5°	1525.4	591.6	84.0	65.4	42.7	23.0	16.0	14.6	14.6	14.6	14.6
55°	1520.5	537.3	75.6	56.5	31.6	18.3	13.8	12.8	12.6	12.6	12.6
57.5°	1537.3	505.2	60.5	44.0	22.7	14.8	12.1	11.4	10.9	10.6	10.6
60°	1571.1	484.2	43.2	31.6	17.0	12.3	10.4	9.6	8.9	8.4	8.4
62.5°	1616.1	465.9	32.1	23.5	13.1	9.9	8.6	7.9	6.9	6.4	6.4
65°	1650.6	433.3	24.4	17.5	9.9	7.9	6.7	6.4	4.9	4.4	4.2
67.5°	1597.8	361.7	19.8	12.8	7.4	6.2	5.2	4.9	3.0	2.5	2.5
70°	1370.4	251.9	15.8	9.4	5.4	4.9	4.2	3.2	2.2	2.0	2.0
71°	1242.7	210.4	14.3	7.9	4.7	4.7	4.0	2.7	2.0	1.7	1.7
72.5°	1032.4	149.4	12.1	6.2	4.2	4.9	4.2	2.5	2.0	1.7	1.5
75°	599.3	62.5	8.4	4.2	3.2	5.9	5.4	2.2	1.5	1.2	1.2
77.5°	180.2	23.0	4.7	2.7	2.5	5.2	6.2	2.0	0.7	0.2	0.2
80°	32.8	9.9	3.0	1.7	1.7	3.2	4.7	1.0	0.0	0.0	0.0
82.5°	11.6	4.9	1.7	1.0	0.7	1.5	2.2	0.0	0.0	0.0	0.0
85°	6.7	3.5	1.0	0.5	0.0	0.2	0.5	0.0	0.0	0.0	0.0
87.5°	4.4	1.0	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)