

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: P1208747

Luminaire Tested: UPW-SA2-070-727-U-SL4-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1208747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-6)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-070-727-U-SL4-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 2700K, 615mA 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: 5926 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

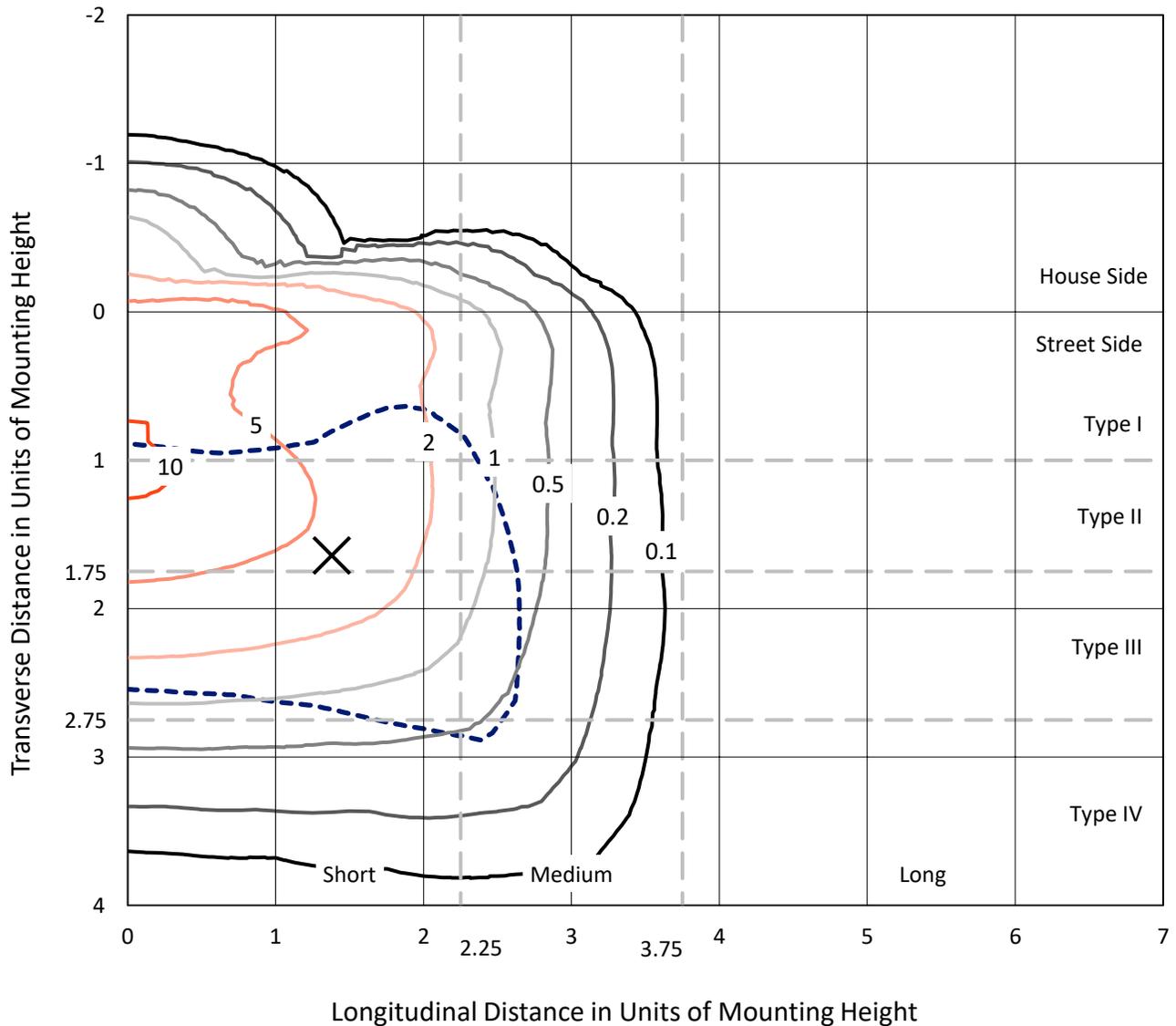
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

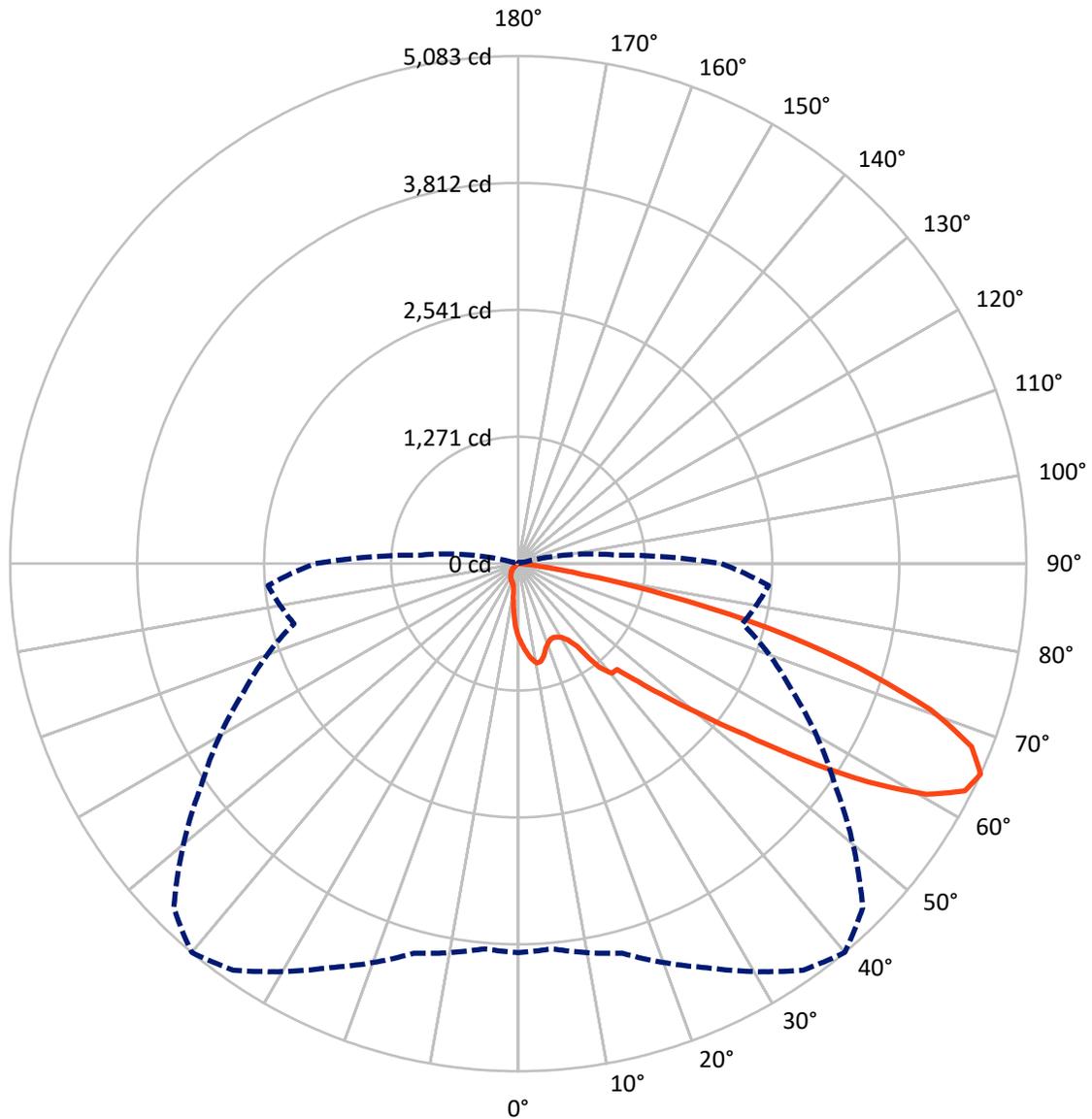
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 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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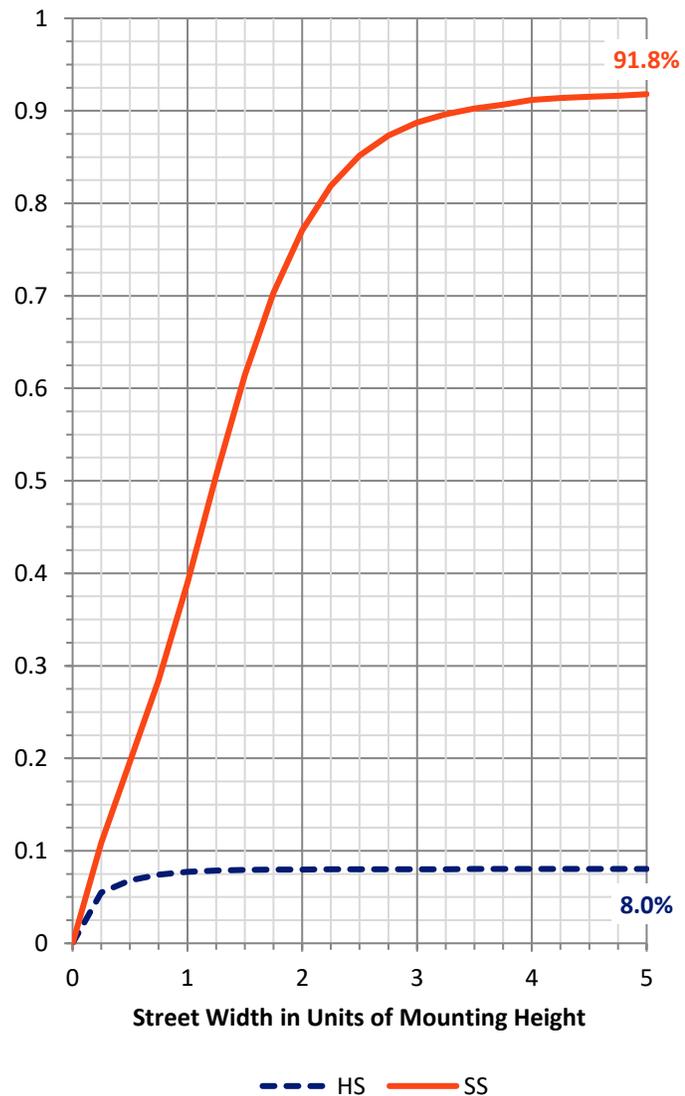
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	479.6	0.0	479.6
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	5446.4	0.0	5446.4
	% Fixture	91.9	0.0	91.9
Total	Lumens	5926.0	0.0	5926.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	1.1
10°-20°	190.9	3.2
20°-30°	297.9	5.0
30°-40°	493.7	8.3
40°-50°	837.1	14.1
50°-60°	1474.5	24.9
60°-70°	1836.5	31.0
70°-80°	690.2	11.6
80°-90°	37.4	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°	5926.0	100.0
0°-180°	5926.0	100.0



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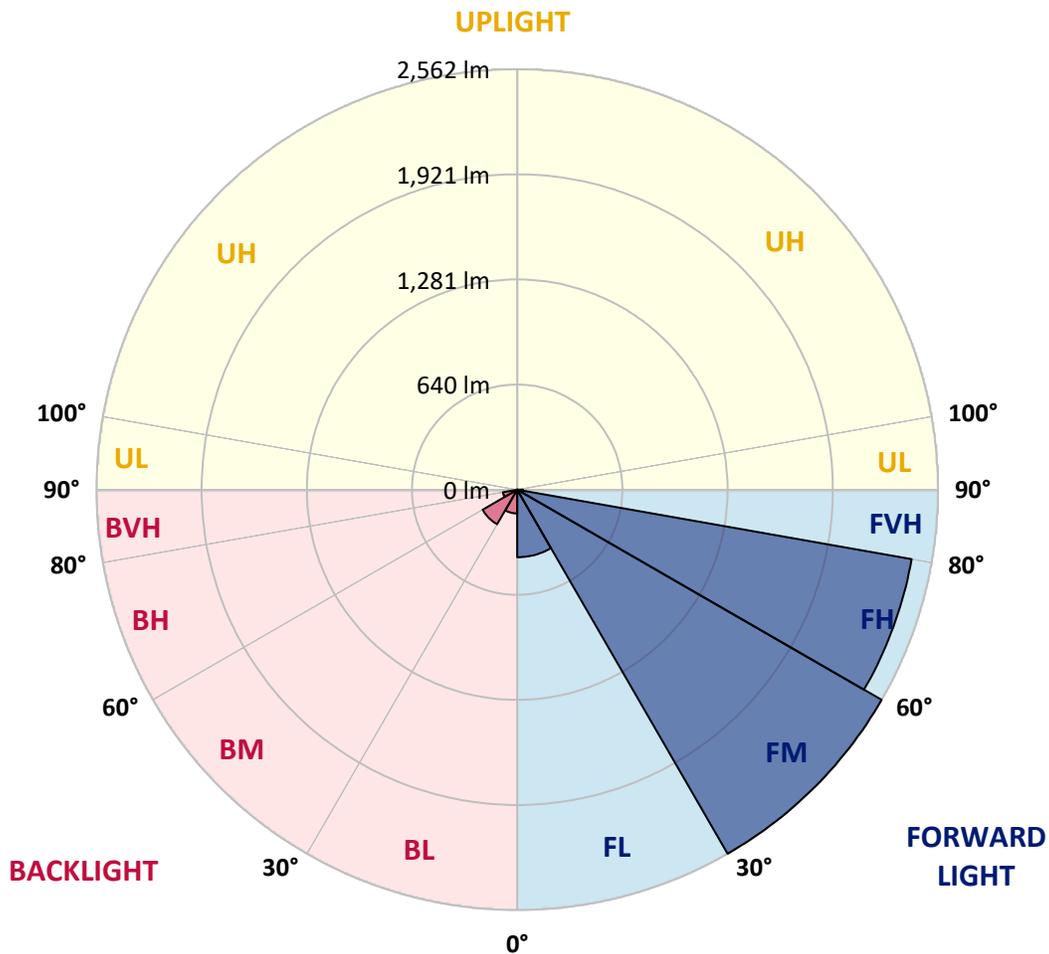
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	411.6	6.9			
FM	(30°-60°)	2561.7	43.2			
FH	(60°-80°)	2438.2	41.1			G2/5000
FVH	(80°-90°)	34.9	0.6			G1/100
BL	(0°-30°)	145.1	2.4	B1/500		
BM	(30°-60°)	243.5	4.1	B1/1000		
BH	(60°-80°)	88.5	1.5	B0/110		G0/110
BVH	(80°-90°)	2.4	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°	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0
2.5°	837.8	830.8	829.1	825.6	816.8	816.0	814.2	798.5	787.2	775.8	758.4
5°	918.9	913.7	909.3	908.5	902.4	894.5	892.8	871.0	850.0	826.4	789.8
7.5°	978.3	973.1	973.1	973.1	966.1	963.5	963.5	940.8	920.7	884.9	835.2
10°	990.5	987.0	990.5	999.2	1008.0	1011.5	1014.9	1009.7	993.1	953.9	893.6
12.5°	960.0	956.5	960.0	973.1	989.6	1006.2	1028.0	1056.0	1062.1	1035.0	956.5
15°	929.4	925.1	918.1	915.5	932.9	958.2	987.9	1063.8	1119.7	1111.8	1028.9
17.5°	910.2	909.3	892.8	870.1	871.8	891.0	929.4	1032.4	1147.6	1180.8	1096.1
20°	891.9	889.3	871.0	838.7	831.7	849.1	881.4	988.8	1142.4	1244.5	1165.9
22.5°	882.3	878.8	854.4	816.0	809.0	824.7	853.5	941.6	1116.2	1282.0	1232.2
25°	893.6	891.0	856.1	811.6	805.5	818.6	843.9	916.3	1082.1	1296.0	1285.5
27.5°	932.0	926.8	880.6	827.3	819.5	831.7	852.6	907.6	1052.5	1290.7	1328.2
30°	1062.9	1042.9	973.9	874.4	850.0	857.9	874.4	918.9	1033.3	1283.7	1376.2
32.5°	1316.9	1306.4	1191.2	1010.6	918.1	911.1	922.4	953.9	1046.4	1320.4	1465.3
35°	1758.5	1745.4	1582.2	1295.1	1056.0	1017.6	1010.6	1037.6	1145.9	1330.0	1480.1
37.5°	2102.3	2090.1	1953.1	1737.5	1442.6	1317.8	1236.6	1225.3	1152.0	1285.5	1498.4
40°	2269.9	2248.9	2048.2	1757.6	1537.7	1444.3	1354.4	1171.2	1089.1	1259.3	1545.5
42.5°	2674.8	2617.2	2380.7	2016.8	1619.7	1448.7	1289.8	1096.1	1111.8	1286.4	1618.9
45°	3125.1	3128.6	2842.4	2358.9	1888.5	1684.3	1485.3	1186.0	1193.0	1355.3	1715.7
47.5°	3644.4	3584.2	3281.3	2792.6	2224.5	1993.2	1770.7	1342.2	1308.2	1466.1	1845.8
50°	4022.3	3983.9	3748.2	3287.4	2639.0	2376.4	2084.0	1577.0	1496.7	1593.5	1977.5
52.5°	4230.8	4222.1	4104.3	3735.1	3152.2	2846.7	2464.5	1851.9	1727.1	1734.0	2075.3
55°	4394.9	4371.3	4366.1	4185.5	3732.5	3463.7	2966.3	2225.4	2019.4	1871.1	2173.0
57.5°	4559.8	4532.8	4555.5	4523.2	4356.5	4125.2	3568.5	2631.2	2274.2	2016.8	2290.0
60°	4562.5	4535.4	4599.1	4735.2	4809.4	4689.9	4179.3	3074.5	2555.3	2166.0	2448.8
62.5°	4352.1	4325.1	4434.2	4717.8	5027.6	5012.8	4653.2	3499.5	2835.4	2315.3	2580.6
65°	3894.0	3872.2	4038.8	4463.8	4969.1	5082.6	4874.0	3868.7	3025.6	2322.2	2512.5
67.5°	2969.8	3009.1	3291.8	3878.3	4665.4	4893.2	4842.6	3965.5	2932.3	2111.1	2253.3
70°	1916.4	1988.0	2303.9	2996.0	3969.9	4376.6	4402.8	3520.5	2454.0	1716.6	1693.0
72.5°	1020.2	1033.3	1324.8	1938.3	3018.7	3552.7	3592.0	2650.4	1679.1	1140.6	924.2
75°	446.8	482.6	648.4	1090.0	2011.6	2603.3	2486.3	1588.3	866.6	521.9	357.8
77.5°	160.6	173.7	252.2	533.2	1135.4	1523.7	1419.9	754.9	350.0	231.3	104.7
80°	77.7	78.5	101.2	203.3	474.7	642.3	558.5	267.0	159.7	130.0	41.0
82.5°	26.2	32.3	57.6	80.3	176.3	219.0	161.4	99.5	95.1	98.6	28.8
85°	0.0	0.9	28.8	43.6	45.4	51.5	41.0	43.6	58.5	59.3	9.6
87.5°	0.0	0.0	0.0	8.7	9.6	9.6	5.2	10.5	24.4	28.8	1.7
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°	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0
2.5°	747.9	737.4	716.5	699.0	675.5	658.9	641.4	633.6	628.3	606.5	604.8
5°	769.7	746.2	698.2	645.8	594.3	543.7	495.7	468.6	445.1	435.5	424.1
7.5°	802.0	766.2	681.6	591.7	494.8	416.3	363.0	333.4	308.9	304.6	301.1
10°	846.5	792.4	667.6	521.9	385.7	311.6	267.9	248.7	240.9	239.1	236.5
12.5°	895.4	825.6	651.9	440.7	302.0	239.1	220.8	220.8	225.2	226.9	226.9
15°	958.2	864.0	622.2	368.3	242.6	209.4	208.6	212.1	216.4	218.2	219.0
17.5°	1013.2	904.1	584.7	302.0	208.6	199.0	200.7	203.3	207.7	211.2	211.2
20°	1072.5	940.8	546.3	248.7	192.0	189.4	191.1	194.6	199.8	202.5	203.3
22.5°	1124.9	969.6	501.8	213.8	180.6	180.6	183.3	186.8	192.9	197.2	197.2
25°	1168.5	992.3	453.8	190.2	170.2	171.0	173.7	178.9	185.0	189.4	190.2
27.5°	1202.6	1003.6	398.8	171.0	159.7	159.7	164.1	170.2	178.0	183.3	183.3
30°	1246.2	1021.1	356.9	157.1	148.4	148.4	151.8	159.7	170.2	177.2	177.2
32.5°	1311.7	1051.6	312.4	144.9	137.9	137.9	141.4	148.4	158.8	167.6	169.3
35°	1322.1	1037.6	267.0	135.3	128.3	127.4	129.2	135.3	144.0	150.1	152.7
37.5°	1338.7	1037.6	224.3	124.8	118.7	117.8	118.7	121.3	124.8	126.5	125.7
40°	1375.4	1044.6	188.5	116.1	110.0	108.2	107.3	106.5	103.0	98.6	97.7
42.5°	1433.0	1062.9	158.0	106.5	100.4	98.6	96.0	89.9	82.0	75.9	75.9
45°	1501.9	1079.5	132.6	98.6	91.6	89.9	82.0	72.4	62.8	58.5	58.5
47.5°	1586.6	1099.6	112.6	91.6	84.7	80.3	67.2	55.9	48.0	46.3	46.3
50°	1684.3	1111.8	95.1	83.8	77.7	69.8	53.2	43.6	37.5	36.7	36.7
52.5°	1752.4	1110.9	81.2	76.8	70.7	58.5	42.8	34.9	30.5	28.8	28.8
55°	1817.8	1098.7	68.1	68.1	61.1	47.1	34.9	28.8	24.4	22.7	21.8
57.5°	1897.2	1092.6	58.5	56.7	49.7	38.4	28.8	23.6	19.2	15.7	14.8
60°	2023.8	1103.1	48.9	45.4	39.3	30.5	23.6	18.3	14.0	9.6	8.7
62.5°	2108.4	1092.6	40.1	36.7	31.4	24.4	17.5	13.1	7.9	5.2	4.4
65°	2029.9	975.7	34.0	29.7	25.3	19.2	13.1	8.7	3.5	0.9	0.0
67.5°	1755.0	779.3	28.8	24.4	20.1	14.8	9.6	5.2	0.9	0.0	0.0
70°	1275.9	525.4	25.3	20.1	15.7	12.2	7.0	2.6	0.0	0.0	0.0
72.5°	667.6	247.0	22.7	18.3	14.0	9.6	5.2	1.7	0.0	0.0	0.0
75°	233.9	89.0	20.9	17.5	12.2	7.9	4.4	1.7	0.0	0.0	0.0
77.5°	73.3	40.1	20.9	18.3	13.1	7.9	4.4	1.7	0.0	0.0	0.0
80°	33.2	26.2	19.2	17.5	12.2	7.9	4.4	0.9	0.0	0.0	0.0
82.5°	23.6	20.9	18.3	15.7	11.3	7.0	3.5	0.9	0.0	0.0	0.0
85°	8.7	7.0	7.0	8.7	7.9	4.4	1.7	0.0	0.0	0.0	0.0
87.5°	0.9	0.9	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)