

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: P1209267

Luminaire Tested: UPW-SA2-110-730-U-T2-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-110-730-U-T2-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9563 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

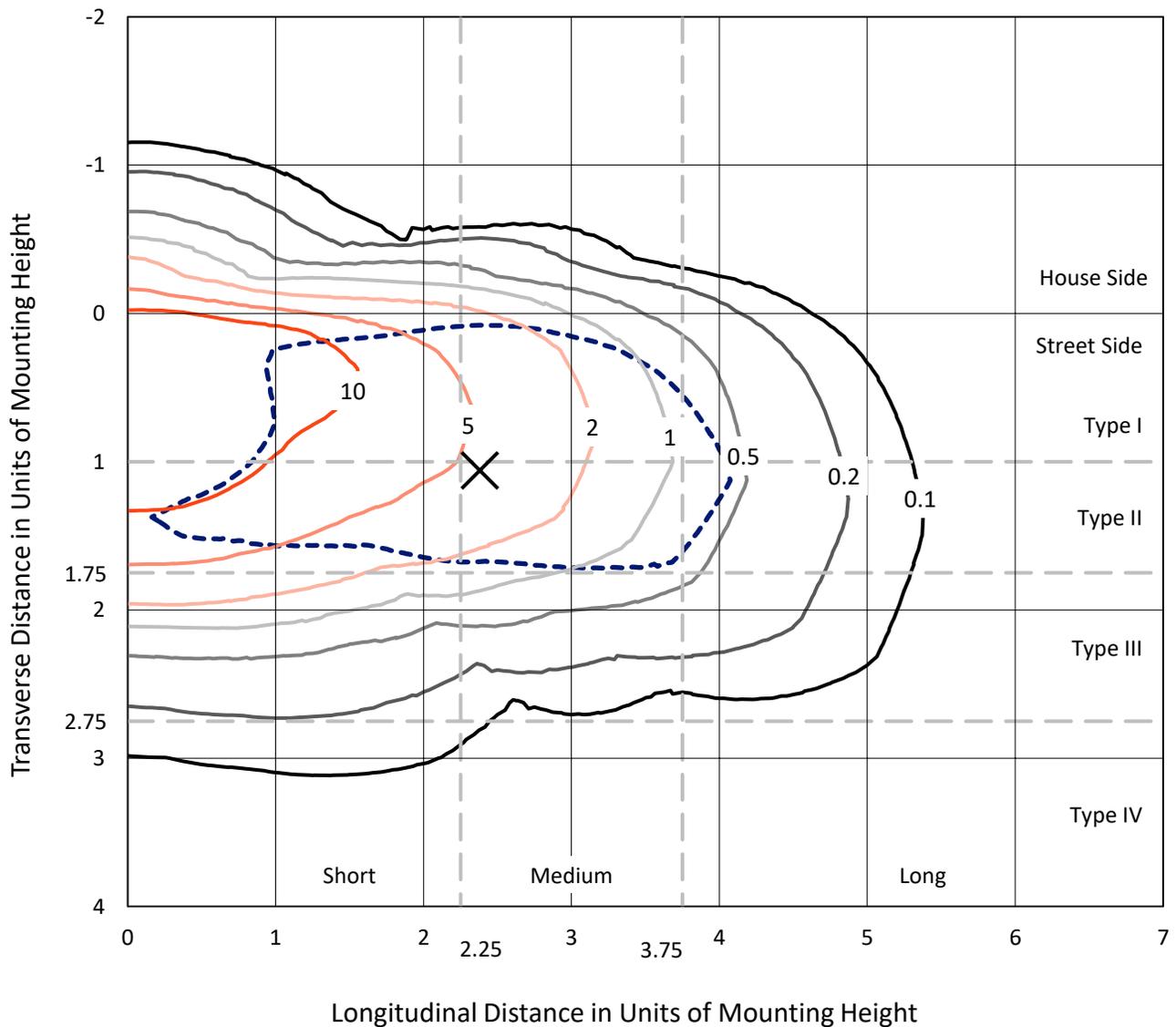
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

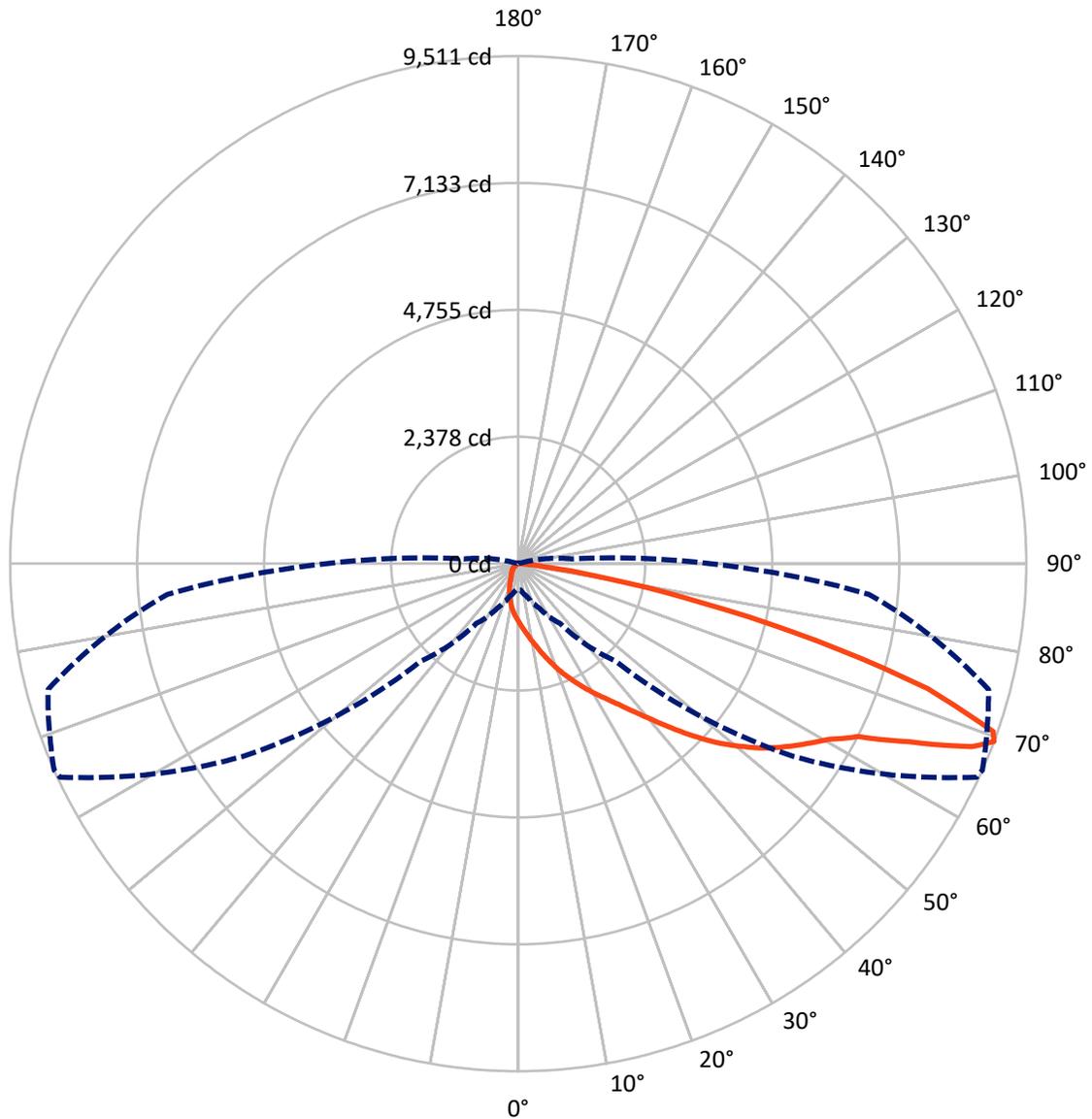
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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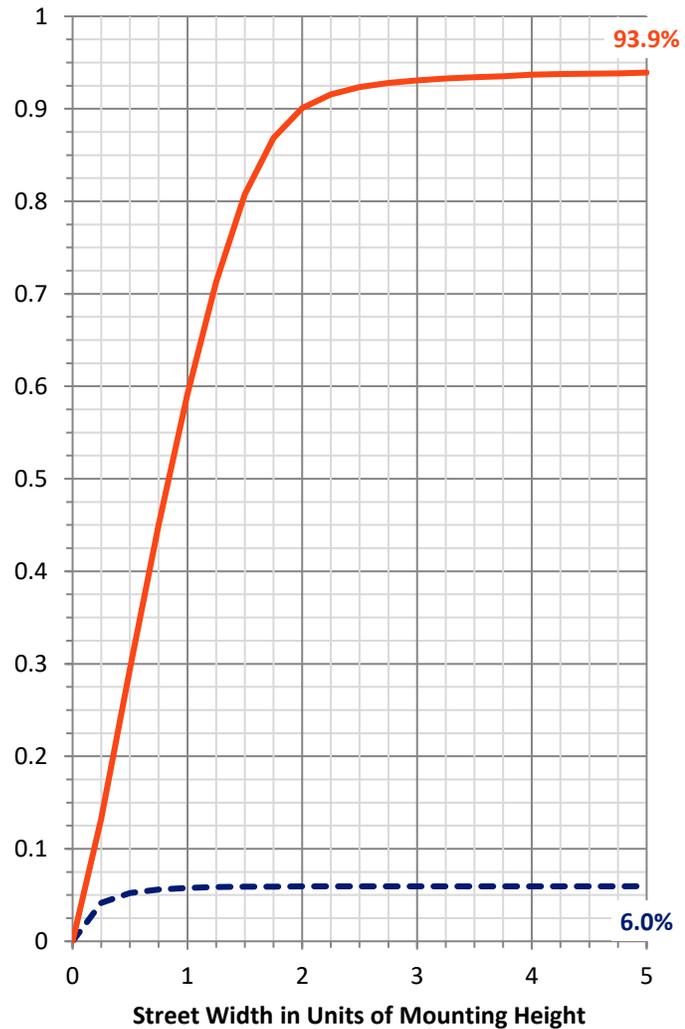
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	573.6	0.0	573.6
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	8989.3	0.0	8989.3
	% Fixture	94.0	0.0	94.0
Total	Lumens	9563.0	0.0	9563.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	1.1
10°-20°	313.1	3.3
20°-30°	545.2	5.7
30°-40°	956.6	10.0
40°-50°	1601.1	16.7
50°-60°	2353.5	24.6
60°-70°	2416.5	25.3
70°-80°	1192.9	12.5
80°-90°	78.9	0.8
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°	9563.0	100.0
0°-180°	9563.0	100.0



--- HS — SS

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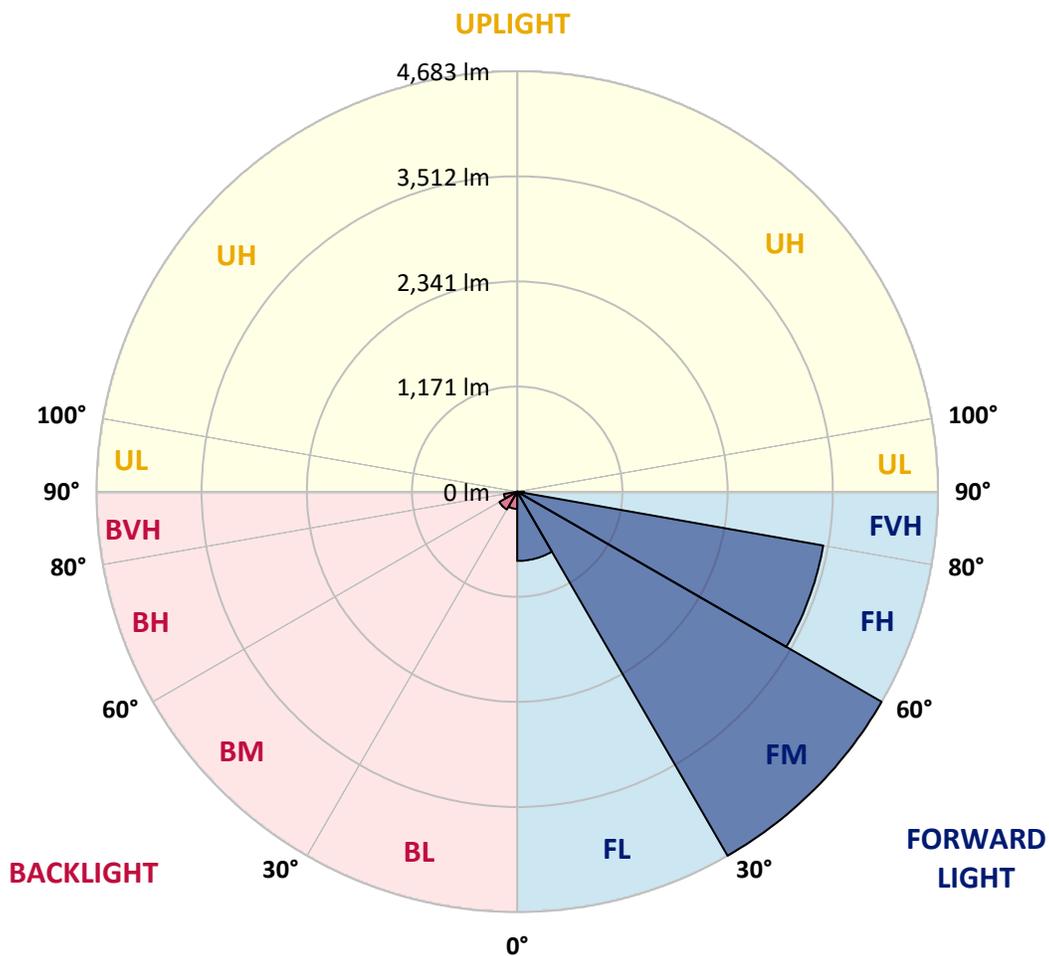
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	771.6	8.1			
FM (30°-60°)	4682.5	49.0			
FH (60°-80°)	3458.2	36.2			G2/5000
FVH (80°-90°)	77.0	0.8			G1/100
BL (0°-30°)	191.9	2.0	B1/500		
BM (30°-60°)	228.7	2.4	B1/1000		
BH (60°-80°)	151.2	1.6	B1/500		G1/500
BVH (80°-90°)	1.9	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3
2.5°	1280.9	1275.4	1273.2	1263.2	1245.9	1232.7	1207.3	1177.8	1172.3	1143.7	1108.7
5°	1447.1	1442.6	1439.4	1425.3	1407.6	1374.5	1328.1	1273.2	1262.7	1208.2	1138.3
7.5°	1563.0	1571.1	1571.1	1562.0	1539.8	1514.8	1458.0	1383.1	1369.9	1286.3	1177.8
10°	1630.6	1640.6	1648.3	1656.1	1652.9	1642.9	1589.3	1504.8	1488.9	1378.1	1223.7
12.5°	1637.0	1647.0	1668.8	1701.0	1732.4	1755.1	1721.5	1639.7	1621.5	1484.4	1278.2
15°	1601.6	1612.0	1645.6	1708.3	1784.2	1850.5	1861.4	1789.2	1770.5	1611.1	1346.3
17.5°	1539.8	1546.6	1594.8	1681.5	1800.5	1922.2	1988.1	1949.5	1932.2	1756.0	1422.1
20°	1493.9	1498.9	1541.2	1634.3	1790.5	1967.2	2108.0	2119.8	2101.7	1911.3	1504.4
22.5°	1572.5	1581.6	1582.9	1627.0	1763.3	1989.5	2213.4	2287.4	2273.8	2076.2	1585.2
25°	1787.3	1797.8	1763.3	1736.0	1786.4	1999.5	2303.8	2459.1	2448.2	2253.8	1666.5
27.5°	2071.2	2082.1	2037.6	1956.3	1907.7	2037.2	2384.2	2633.5	2633.1	2441.9	1754.2
30°	2350.1	2361.0	2315.6	2234.3	2122.5	2143.9	2453.7	2816.1	2818.9	2635.8	1847.3
32.5°	2642.6	2656.3	2609.5	2505.0	2388.3	2328.3	2551.3	2999.6	3015.1	2860.6	1952.2
35°	2975.1	2976.9	2911.1	2801.6	2667.2	2574.9	2708.0	3205.4	3242.2	3139.1	2085.3
37.5°	3301.2	3314.4	3260.4	3087.8	2964.2	2859.7	2941.0	3462.5	3514.7	3479.3	2259.3
40°	3542.9	3570.6	3562.9	3376.6	3259.4	3185.0	3230.4	3768.2	3834.5	3875.4	2478.7
42.5°	3694.6	3715.5	3750.9	3638.7	3532.4	3544.7	3571.9	4124.3	4206.0	4326.9	2730.7
45°	3868.6	3878.5	3908.1	3858.6	3786.8	3910.3	3934.4	4525.3	4611.2	4812.4	3010.5
47.5°	4081.1	4104.7	4112.9	4067.5	4034.8	4233.7	4283.7	4890.1	5010.5	5332.5	3306.7
50°	4351.8	4358.2	4372.3	4342.8	4310.0	4511.7	4597.1	5273.0	5382.5	5854.4	3598.7
52.5°	4616.6	4639.4	4688.4	4669.8	4656.6	4748.4	4876.5	5618.2	5740.4	6289.5	3890.4
55°	4693.0	4712.5	4881.9	4997.7	5104.9	5040.0	5143.5	5927.5	6059.7	6678.3	4171.1
57.5°	4388.2	4427.7	4721.1	5022.7	5467.4	5493.3	5510.5	6245.0	6363.6	6976.3	4463.1
60°	3617.8	3625.5	4107.0	4624.4	5407.4	5888.9	6046.5	6586.1	6685.6	7253.8	4812.9
62.5°	2301.1	2379.6	2907.9	3638.3	4773.3	5831.7	6694.7	7102.1	7138.4	7586.8	5314.3
65°	1096.0	1146.9	1527.5	2247.9	3457.5	5099.0	7142.1	8035.5	8051.9	8246.7	5984.3
67.5°	606.8	631.4	812.6	1210.0	2021.3	3606.0	6961.3	9141.1	9156.5	8920.8	6572.0
69°	474.7	495.5	638.2	912.1	1370.4	2591.8	6299.5	9464.9	9510.8	9113.8	6592.9
70°	402.9	423.3	549.6	770.3	1101.9	2002.6	5607.3	9384.5	9433.1	9095.7	6437.1
72.5°	246.6	258.4	366.1	542.3	738.6	1007.4	3457.9	7936.5	8018.7	8343.5	5532.3
75°	166.2	172.6	228.9	374.3	528.3	518.7	1796.4	5594.1	5772.2	6490.3	4086.1
77.5°	119.0	124.9	153.5	242.1	370.2	342.5	813.5	3476.6	3514.7	3892.6	2228.4
80°	67.7	73.1	108.6	144.0	251.2	228.5	323.4	1660.6	1679.7	1669.2	744.0
82.5°	35.4	40.0	59.5	94.9	161.2	149.4	134.4	556.0	558.7	464.7	163.1
85°	6.8	8.2	29.5	65.0	83.1	65.0	55.0	130.4	133.1	117.6	40.4
87.5°	0.0	0.5	11.8	14.5	16.4	16.8	17.7	25.4	27.3	36.8	10.9
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°	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3
2.5°	1093.3	1076.9	1045.6	1009.3	981.1	953.4	931.6	908.9	900.7	896.6	896.2
5°	1104.2	1069.7	1003.4	935.2	879.4	826.7	789.0	753.1	736.3	728.6	725.4
7.5°	1122.4	1067.0	960.2	856.2	775.8	709.9	657.7	618.6	599.1	590.9	587.8
10°	1143.7	1063.3	909.8	772.6	670.0	601.8	550.1	511.4	490.1	481.0	476.5
12.5°	1168.7	1057.0	851.7	688.1	579.6	511.4	448.8	401.1	376.5	366.1	361.1
15°	1199.6	1050.6	790.8	608.6	500.1	417.0	348.4	316.1	311.1	309.3	309.8
17.5°	1230.0	1040.6	724.5	530.1	416.5	325.7	290.7	288.9	289.8	289.8	289.8
20°	1257.3	1017.9	652.3	462.8	337.0	274.8	267.5	264.4	262.1	260.3	258.0
22.5°	1278.6	987.5	582.8	396.1	275.3	251.6	240.3	230.3	222.1	216.7	213.9
25°	1293.2	947.0	519.2	332.0	247.5	228.9	208.5	191.7	179.0	171.2	168.1
27.5°	1304.1	903.4	462.4	278.0	228.5	202.6	175.8	155.8	142.6	135.8	133.1
30°	1311.8	853.9	412.4	244.4	207.1	174.9	146.3	126.7	117.2	113.6	111.7
32.5°	1319.0	799.0	365.2	228.5	187.1	149.4	122.6	107.6	101.7	97.2	95.8
35°	1337.2	748.1	320.2	211.7	166.7	127.6	105.4	94.5	88.6	85.8	84.9
37.5°	1380.4	710.4	277.1	194.4	146.3	110.4	92.2	84.5	79.0	76.3	75.4
40°	1449.9	691.3	240.7	175.8	126.3	97.2	83.6	76.3	70.4	66.3	65.4
42.5°	1552.1	694.0	215.3	157.2	110.4	86.8	75.4	66.8	60.4	56.8	55.9
45°	1676.1	714.0	197.6	139.0	97.2	78.6	66.3	57.2	51.3	48.1	47.2
47.5°	1810.5	746.3	183.0	122.6	86.8	70.9	57.2	47.7	42.7	40.0	39.5
50°	1952.2	777.6	168.1	106.7	77.7	63.1	48.1	39.5	35.4	33.2	32.2
52.5°	2095.7	814.0	154.4	92.2	69.9	54.1	40.0	32.2	29.1	27.3	26.3
55°	2250.2	841.2	141.3	80.9	62.2	45.9	33.2	26.8	24.1	21.8	21.3
57.5°	2431.9	883.4	127.6	69.9	53.1	38.2	27.3	21.3	19.1	16.8	16.4
60°	2677.1	933.0	113.1	61.8	43.6	31.3	22.3	17.3	14.5	12.7	12.3
62.5°	3000.5	987.9	94.9	54.1	35.4	25.4	17.7	13.6	10.4	8.2	8.2
65°	3410.7	1077.4	77.7	45.4	29.1	20.9	13.6	10.0	5.9	3.6	3.6
67.5°	3650.1	1092.8	62.7	37.2	23.6	17.7	11.4	6.8	1.8	0.5	0.0
69°	3573.3	1003.4	53.1	31.8	20.4	16.8	10.4	5.0	0.9	0.0	0.0
70°	3428.9	917.5	46.8	28.2	18.6	15.9	10.0	3.6	0.9	0.0	0.0
72.5°	2833.4	653.2	35.4	20.9	13.6	14.1	9.1	2.3	0.9	0.0	0.0
75°	2064.0	397.0	25.4	14.5	8.6	10.4	6.4	0.9	0.5	0.0	0.0
77.5°	1148.3	187.1	15.9	8.2	5.5	6.4	3.2	0.0	0.0	0.0	0.0
80°	372.9	50.9	7.3	4.5	3.2	3.6	1.4	0.0	0.0	0.0	0.0
82.5°	69.0	14.5	4.1	2.3	0.9	0.9	0.0	0.0	0.0	0.0	0.0
85°	15.0	5.9	2.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	1.8	0.5	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)