

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: P1208864

Luminaire Tested: UPW-SA2-070-750-U-T2R-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1208864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-070-750-U-T2R-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7851 lumens
Efficiency: N/A
Efficacy: 119.0 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): 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

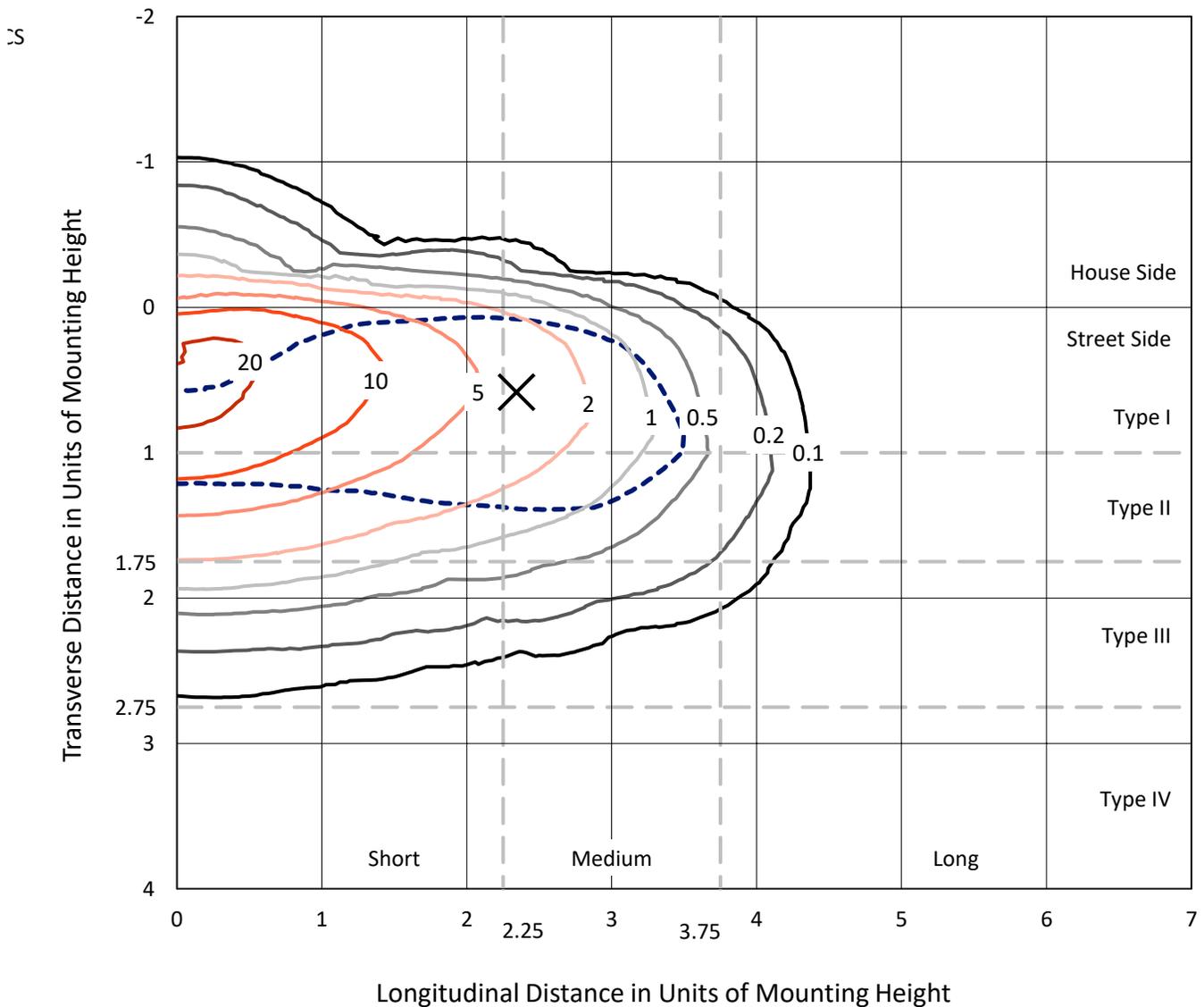


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

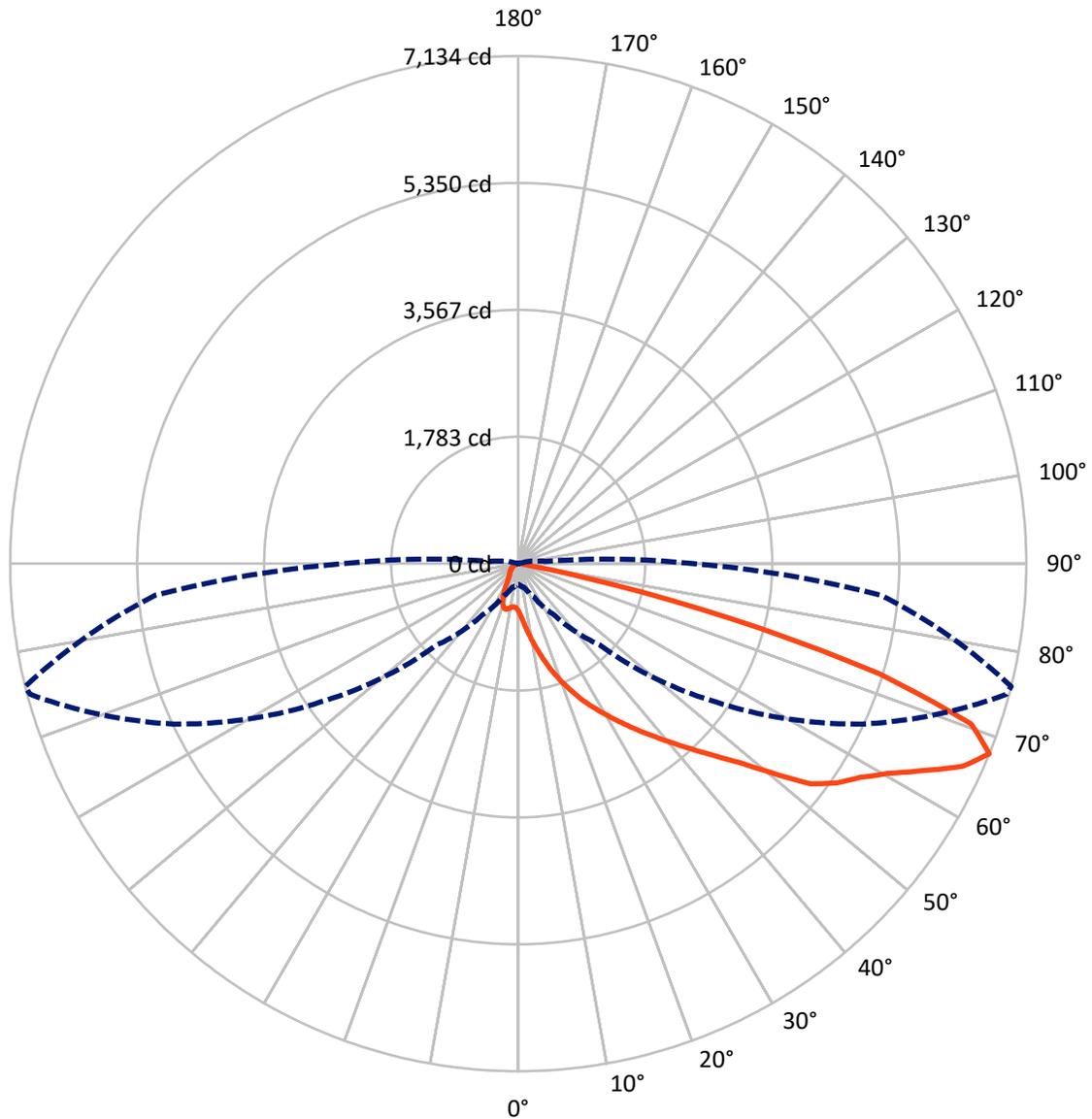


Based on 10 foot mounting height. Maximum calculated value = 23.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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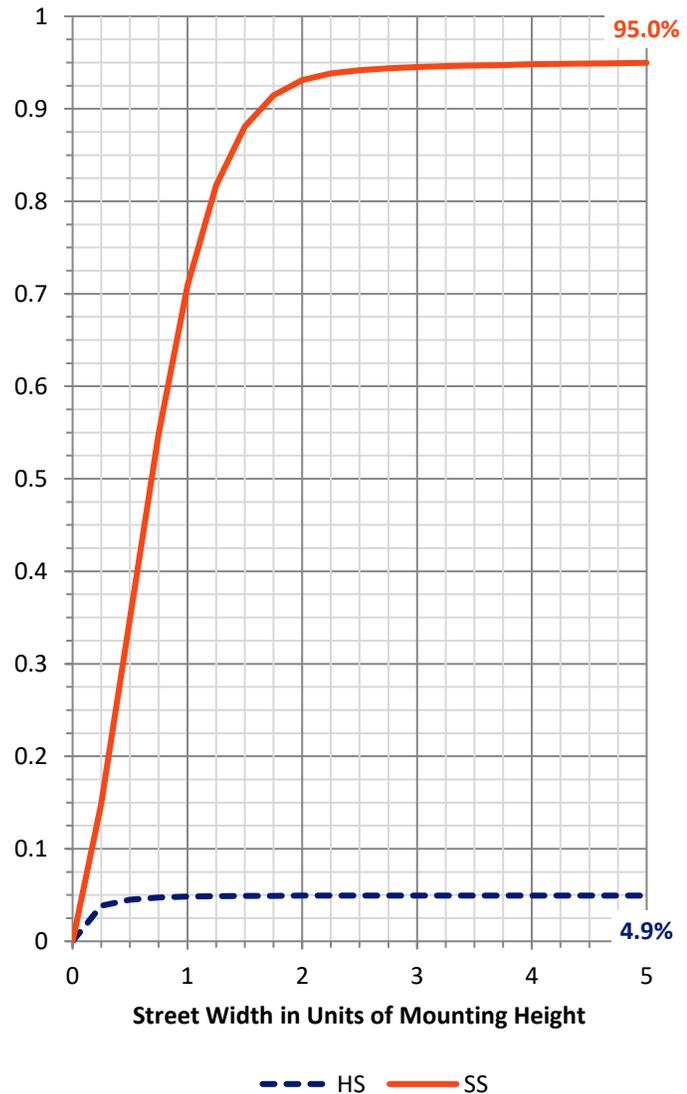
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	389.9	0.0	389.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	7461.1	0.0	7461.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	7851.0	0.0	7851.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	1.1
10°-20°	328.3	4.2
20°-30°	668.0	8.5
30°-40°	1159.4	14.8
40°-50°	1638.0	20.9
50°-60°	1857.6	23.7
60°-70°	1540.7	19.6
70°-80°	558.1	7.1
80°-90°	18.1	0.2
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°	7851.0	100.0
0°-180°	7851.0	100.0



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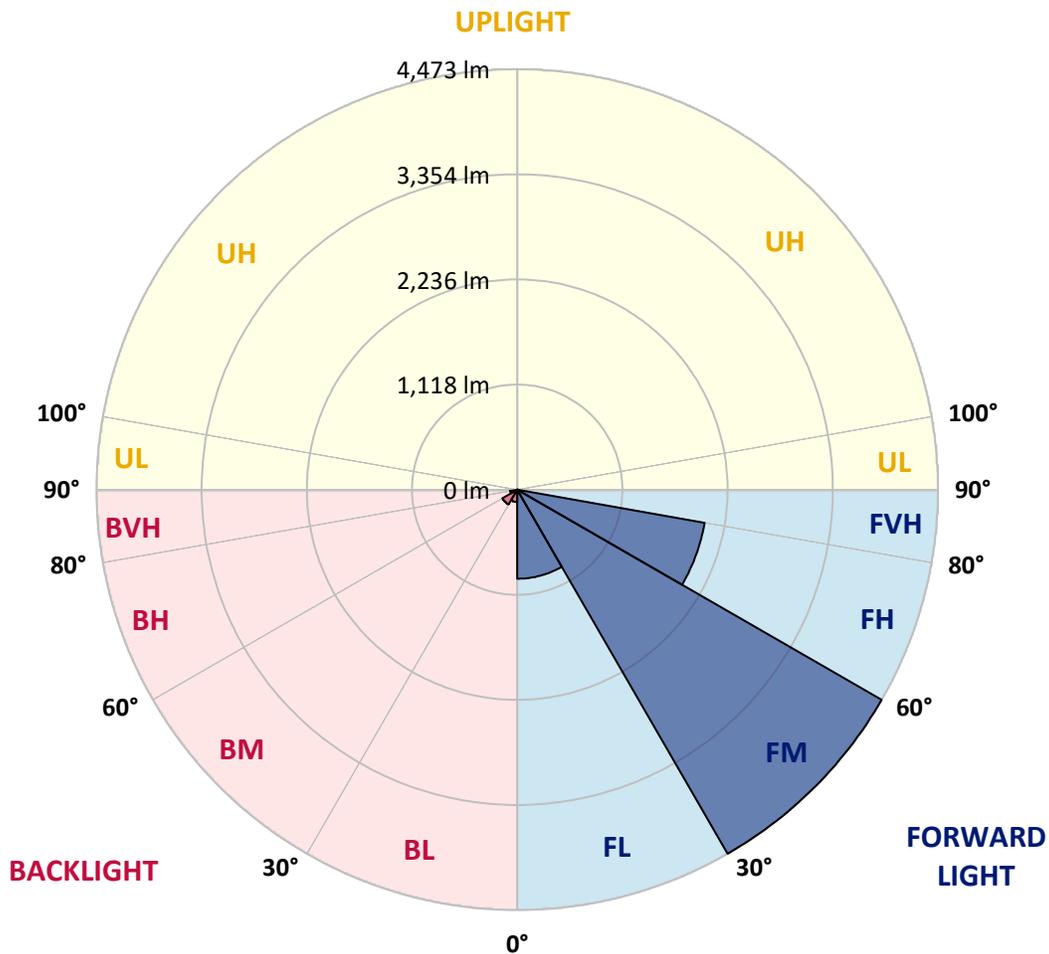
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	947.6	12.1			
FM	(30°-60°)	4472.6	57.0			
FH	(60°-80°)	2023.5	25.8			G2/5000
FVH	(80°-90°)	17.5	0.2			G1/100
BL	(0°-30°)	131.5	1.7	B1/500		
BM	(30°-60°)	182.5	2.3	B0/220		
BH	(60°-80°)	75.3	1.0	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0
2.5°	994.2	971.8	977.0	962.5	936.4	882.7	837.0	793.6	743.0	741.3	699.7
5°	1340.6	1321.7	1319.3	1290.0	1242.5	1151.4	1062.6	961.5	848.7	840.4	752.0
7.5°	1655.0	1639.9	1634.4	1599.6	1511.2	1422.5	1306.9	1158.3	981.8	966.7	822.5
10°	1896.5	1889.3	1890.6	1865.9	1790.2	1707.6	1555.9	1366.4	1132.8	1109.4	907.1
12.5°	2079.5	2081.2	2093.6	2078.5	2036.2	1974.9	1812.9	1588.3	1300.0	1268.0	1003.8
15°	2214.0	2222.6	2245.3	2264.2	2261.1	2208.2	2059.6	1813.6	1477.5	1442.1	1111.5
17.5°	2301.0	2310.7	2343.7	2385.7	2424.2	2411.8	2297.6	2031.0	1657.1	1616.1	1226.7
20°	2377.4	2388.8	2424.2	2479.6	2551.5	2567.0	2492.0	2241.9	1836.3	1786.4	1345.7
22.5°	2542.9	2542.5	2564.2	2596.5	2665.0	2704.9	2657.4	2437.6	2013.5	1961.5	1467.2
25°	2842.2	2830.8	2823.2	2797.8	2812.9	2837.7	2811.2	2620.6	2191.7	2139.0	1590.3
27.5°	3197.9	3204.7	3143.5	3075.1	3022.1	2996.6	2953.3	2790.2	2363.0	2305.2	1710.7
30°	3573.2	3575.2	3503.0	3415.6	3299.0	3202.3	3127.3	2952.2	2539.1	2476.1	1827.7
32.5°	3911.7	3898.3	3826.7	3707.7	3560.4	3451.7	3295.9	3133.2	2725.5	2664.7	1957.7
35°	4180.0	4164.2	4077.1	3968.8	3816.0	3706.6	3519.2	3313.8	2921.6	2862.1	2088.1
37.5°	4376.1	4357.5	4268.1	4156.6	4024.8	3961.2	3778.2	3510.2	3135.6	3071.6	2225.4
40°	4444.2	4428.0	4371.9	4290.4	4184.5	4170.0	4053.1	3736.2	3368.5	3300.4	2380.9
42.5°	4403.6	4387.8	4367.8	4340.3	4296.3	4310.0	4312.4	3993.9	3627.2	3560.1	2552.5
45°	4242.6	4228.5	4249.1	4289.4	4344.1	4412.2	4549.1	4270.8	3916.1	3844.6	2751.0
47.5°	4005.6	3995.3	4052.4	4152.8	4312.8	4500.6	4765.5	4561.8	4240.5	4174.1	2998.7
50°	3668.5	3666.7	3781.0	3964.3	4210.3	4543.3	4989.1	4892.8	4691.2	4621.4	3343.0
52.5°	3143.5	3147.0	3371.6	3665.0	4030.4	4514.4	5132.9	5318.0	5215.4	5142.9	3641.3
55°	2643.7	2664.3	2823.6	3246.7	3754.5	4407.0	5182.4	5516.5	5504.8	5436.0	3807.1
57.5°	2154.2	2191.7	2345.1	2740.3	3351.6	4159.7	5155.2	5602.5	5720.1	5667.5	4025.9
60°	1623.7	1640.9	1817.7	2187.2	2834.6	3708.4	4958.1	5649.2	6014.6	5978.1	4343.4
62.5°	1033.0	1076.0	1232.9	1589.3	2207.1	3081.6	4625.8	5648.5	6383.0	6403.0	4753.1
65°	544.2	594.4	677.7	984.9	1516.7	2381.5	4126.0	5595.6	6835.0	6862.9	5073.4
67.5°	293.4	307.9	351.9	511.2	879.6	1613.4	3391.5	5334.1	7096.8	7133.6	5118.1
70°	214.7	222.6	239.1	282.8	442.7	937.1	2474.8	4741.4	6759.3	6745.6	4547.4
72.5°	164.8	177.2	189.5	207.1	254.6	500.2	1540.8	3712.8	5393.3	5302.5	3399.1
75°	130.0	132.1	149.6	165.5	190.9	284.8	684.2	2162.4	3291.8	3076.8	1762.7
77.5°	103.9	105.3	115.6	129.3	153.4	187.1	211.9	850.7	1050.9	937.8	382.5
80°	61.6	65.0	86.0	99.8	127.3	118.0	77.4	184.7	164.1	148.6	64.3
82.5°	34.4	37.2	48.5	78.8	88.8	56.4	38.5	49.9	38.5	37.5	18.2
85°	0.0	1.7	31.3	48.8	36.1	12.4	16.2	16.5	11.4	10.7	7.2
87.5°	0.0	0.0	9.6	9.3	1.4	2.1	3.8	5.5	4.5	4.5	3.8
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°	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0
2.5°	679.1	660.5	625.4	591.0	562.1	538.4	517.0	508.4	501.6	500.5	495.0
5°	709.3	671.8	604.8	549.7	512.9	486.8	464.4	450.6	440.0	435.9	432.1
7.5°	755.1	698.3	602.0	538.7	494.7	450.6	409.4	364.6	336.8	326.1	319.9
10°	810.8	733.4	612.3	535.6	458.6	365.7	297.2	240.5	217.4	209.8	207.8
12.5°	875.8	777.1	630.2	516.4	381.5	259.7	205.0	185.8	180.6	178.2	178.2
15°	950.5	824.9	642.9	460.6	282.1	196.4	177.5	168.6	163.1	160.0	160.3
17.5°	1026.9	871.7	636.8	379.8	208.1	174.8	160.6	151.0	143.4	140.4	139.7
20°	1103.9	915.1	602.4	282.8	176.1	158.6	142.8	132.1	124.5	121.4	120.7
22.5°	1183.7	951.9	541.8	207.4	158.2	140.7	125.2	114.6	107.3	104.6	103.2
25°	1261.5	981.8	457.2	167.9	141.4	123.8	109.0	99.1	92.5	89.8	89.4
27.5°	1334.0	1000.7	359.1	148.3	126.6	108.7	95.3	86.3	80.8	78.8	78.4
30°	1399.4	1002.4	265.6	133.8	113.5	95.6	83.2	75.3	70.5	68.5	67.8
32.5°	1465.5	988.0	193.3	120.7	101.5	84.3	72.2	66.0	62.6	60.9	60.9
35°	1527.7	954.6	150.7	109.4	89.8	73.3	63.6	59.2	57.1	55.4	55.4
37.5°	1588.6	906.8	128.0	99.4	78.8	64.0	56.1	53.3	51.6	49.9	49.9
40°	1650.5	846.6	116.3	90.1	69.8	56.8	49.9	47.5	45.8	44.4	44.0
42.5°	1726.6	777.1	108.7	81.5	61.9	50.2	44.0	41.3	39.9	38.5	37.8
45°	1814.6	717.2	102.5	72.9	55.4	44.7	38.2	35.4	33.4	31.6	31.3
47.5°	1941.6	673.9	94.3	63.6	49.2	38.9	33.0	29.9	26.8	25.1	24.8
50°	2103.6	638.1	83.6	55.4	43.0	33.0	27.5	23.7	21.0	19.3	19.3
52.5°	2184.1	591.3	74.0	48.2	36.1	27.9	22.4	17.9	16.5	14.8	14.8
55°	2216.4	555.6	64.3	40.9	29.9	23.0	17.5	13.8	12.7	11.7	11.4
57.5°	2307.2	545.2	56.1	34.7	24.8	18.2	13.4	10.3	9.6	8.3	8.3
60°	2453.4	550.4	48.5	29.6	20.0	14.1	10.0	7.9	7.2	5.8	5.8
62.5°	2611.3	543.9	40.9	25.5	15.5	10.3	6.9	5.8	5.8	3.4	3.1
65°	2641.6	484.4	35.1	21.0	12.0	7.6	4.5	3.8	5.2	0.7	0.0
67.5°	2451.7	375.7	30.3	16.2	8.9	5.8	3.4	1.7	4.5	0.0	0.0
70°	1960.5	238.7	24.4	11.7	6.9	4.8	2.8	0.7	3.4	0.0	0.0
72.5°	1386.3	138.6	19.3	8.3	5.8	3.8	2.1	0.0	2.1	0.0	0.0
75°	701.1	74.0	12.0	6.2	4.5	2.8	1.4	0.0	0.3	0.0	0.0
77.5°	151.7	34.4	7.6	4.5	3.1	1.7	0.7	0.0	0.0	0.0	0.0
80°	33.0	15.1	4.8	2.8	1.7	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.0	7.9	2.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.5	4.1	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	1.4	0.3	0.3	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)