

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: P1209107

Luminaire Tested: UPW-SA2-090-750-U-T2R-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209107
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-SA2-090-750-U-T2R-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 5000K, 800mA 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: 9626 lumens
Efficiency: N/A
Efficacy: 111.9 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): 86
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

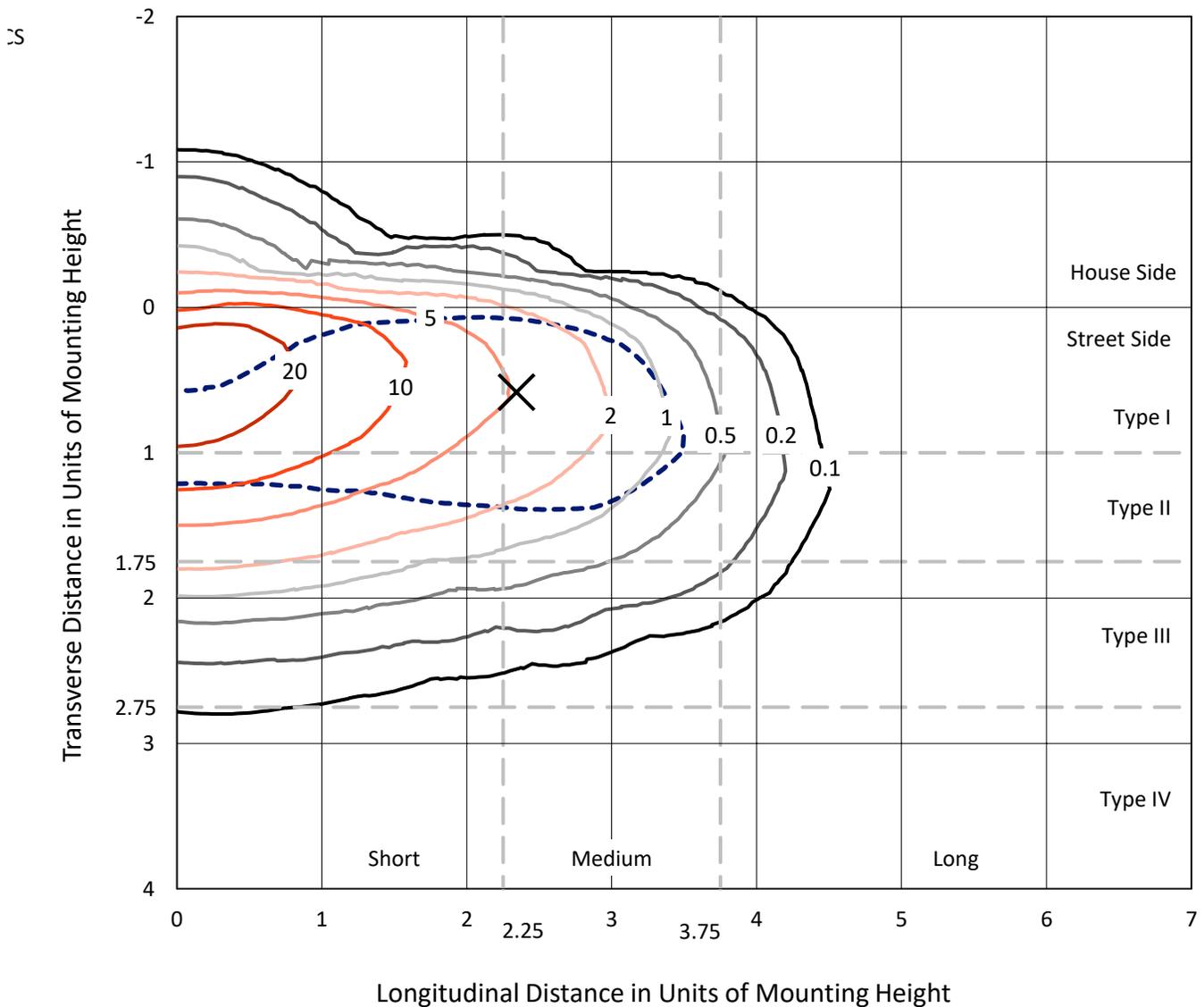


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Iso-Footcandle Lines of Horizontal Illumination

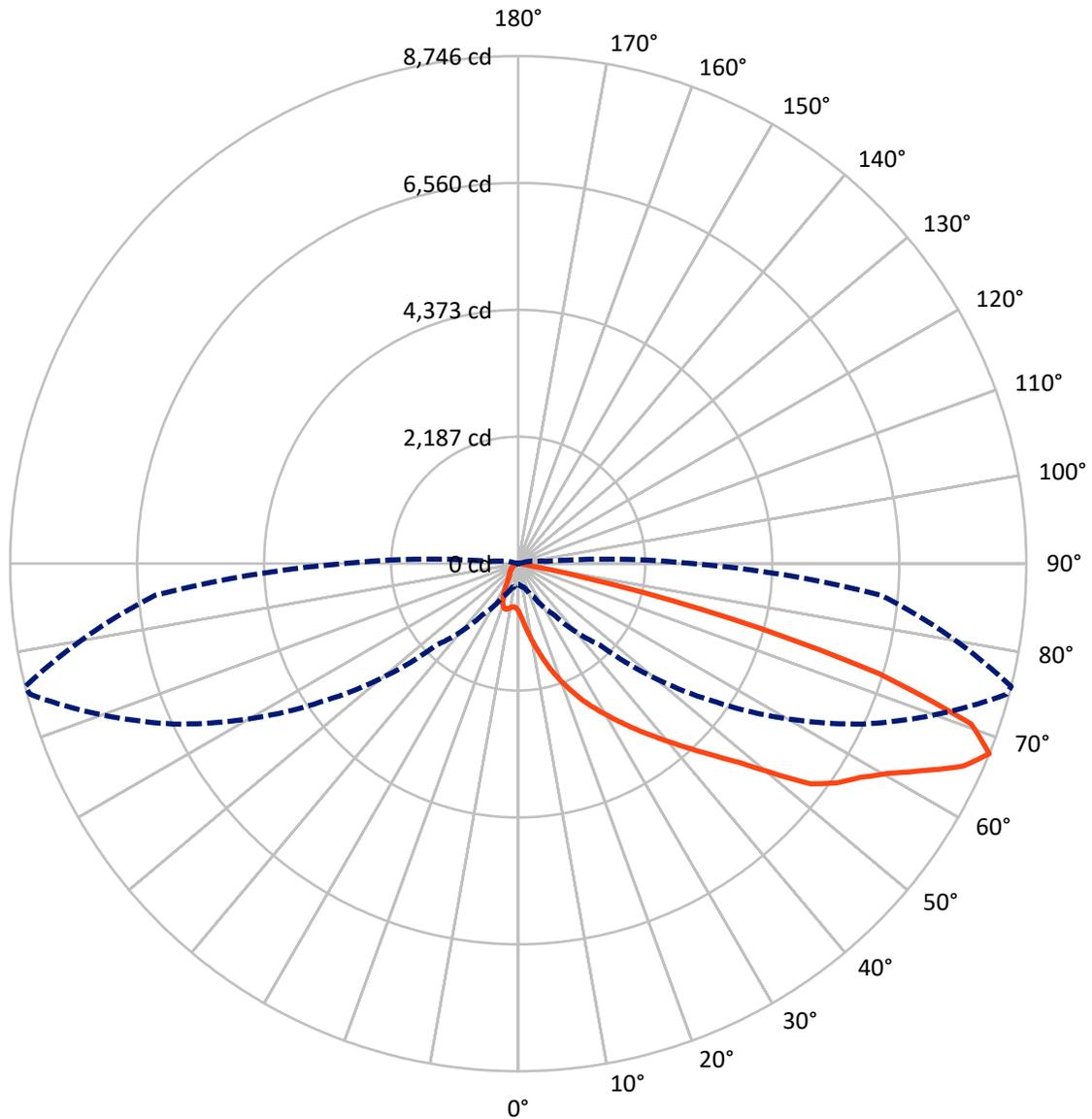
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.7 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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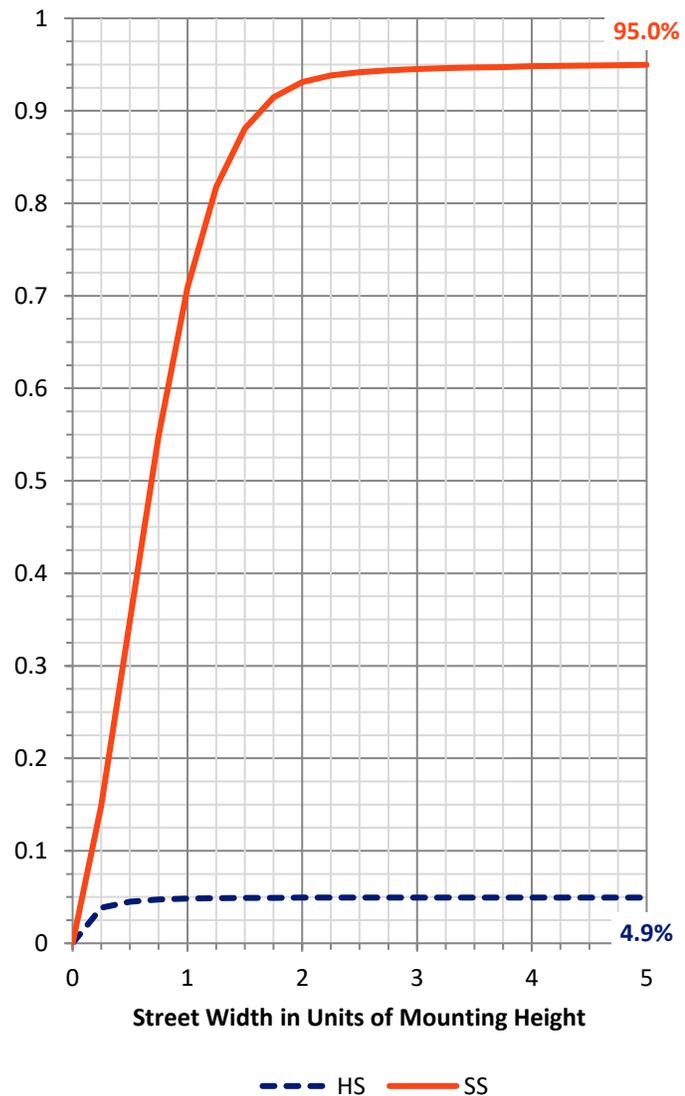
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	478.0	0.0	478.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	9148.0	0.0	9148.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	9626.0	0.0	9626.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	1.1
10°-20°	402.5	4.2
20°-30°	819.0	8.5
30°-40°	1421.5	14.8
40°-50°	2008.4	20.9
50°-60°	2277.6	23.7
60°-70°	1889.1	19.6
70°-80°	684.3	7.1
80°-90°	22.2	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°	9626.0	100.0
0°-180°	9626.0	100.0



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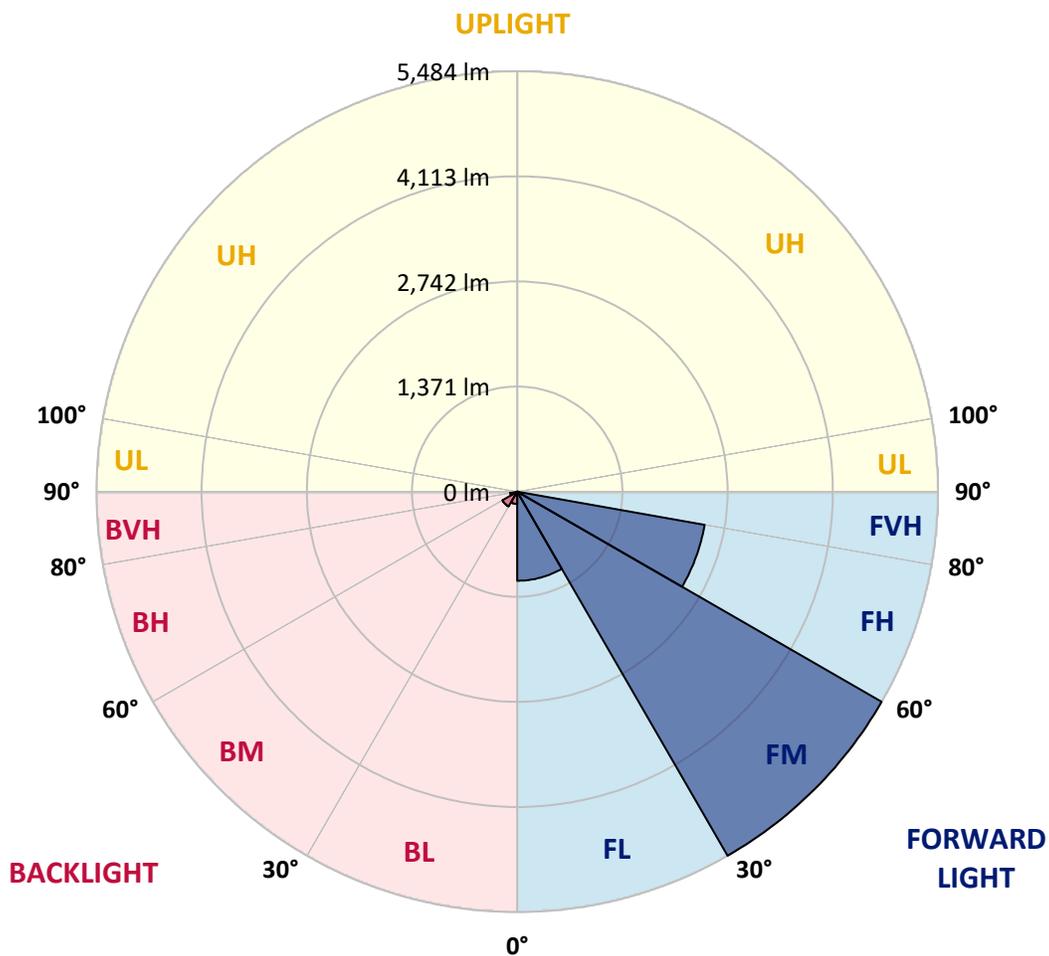
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1161.8	12.1			
FM	(30°-60°)	5483.7	57.0			
FH	(60°-80°)	2480.9	25.8			G2/5000
FVH	(80°-90°)	21.5	0.2			G1/100
BL	(0°-30°)	161.2	1.7	B1/500		
BM	(30°-60°)	223.7	2.3	B1/1000		
BH	(60°-80°)	92.4	1.0	B0/110		G0/110
BVH	(80°-90°)	0.7	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°	816.6	816.6	816.6	816.6	816.6	816.6	816.6	816.6	816.6	816.6	816.6
2.5°	1218.9	1191.5	1197.9	1180.1	1148.1	1082.3	1026.2	973.0	911.0	908.9	857.9
5°	1643.7	1620.5	1617.5	1581.7	1523.5	1411.7	1302.9	1178.9	1040.5	1030.4	922.0
7.5°	2029.2	2010.6	2003.9	1961.3	1852.9	1744.1	1602.3	1420.1	1203.8	1185.2	1008.5
10°	2325.3	2316.4	2318.1	2287.7	2194.9	2093.7	1907.7	1675.3	1388.9	1360.2	1112.2
12.5°	2549.7	2551.8	2566.9	2548.4	2496.5	2421.4	2222.8	1947.4	1593.9	1554.7	1230.8
15°	2714.6	2725.1	2752.9	2776.1	2772.4	2707.4	2525.2	2223.6	1811.5	1768.1	1362.8
17.5°	2821.3	2833.1	2873.6	2925.0	2972.3	2957.1	2817.1	2490.2	2031.7	1981.5	1504.1
20°	2914.9	2928.8	2972.3	3040.2	3128.3	3147.3	3055.4	2748.7	2251.5	2190.3	1650.0
22.5°	3117.8	3117.4	3143.9	3183.6	3267.5	3316.4	3258.2	2988.7	2468.7	2405.0	1798.9
25°	3484.7	3470.8	3461.5	3430.3	3448.9	3479.3	3446.8	3213.1	2687.2	2622.6	1949.9
27.5°	3920.9	3929.3	3854.2	3770.3	3705.3	3674.1	3621.0	3421.0	2897.2	2826.3	2097.5
30°	4381.0	4383.5	4295.0	4187.8	4044.9	3926.3	3834.4	3619.7	3113.1	3036.0	2240.9
32.5°	4796.0	4779.6	4691.9	4545.9	4365.4	4232.1	4041.1	3841.6	3341.8	3267.1	2400.3
35°	5125.0	5105.6	4998.9	4866.1	4678.8	4544.7	4314.8	4063.0	3582.2	3509.2	2560.2
37.5°	5365.4	5342.7	5233.0	5096.4	4934.8	4856.8	4632.4	4303.8	3844.5	3766.1	2728.5
40°	5449.0	5429.1	5360.4	5260.4	5130.5	5112.8	4969.4	4580.9	4130.1	4046.5	2919.1
42.5°	5399.2	5379.8	5355.3	5321.6	5267.6	5284.5	5287.4	4896.9	4447.2	4365.0	3129.6
45°	5201.8	5184.5	5209.8	5259.2	5326.2	5409.7	5577.6	5236.4	4801.5	4713.8	3373.0
47.5°	4911.2	4898.5	4968.6	5091.7	5287.8	5518.1	5842.9	5593.2	5199.3	5117.9	3676.6
50°	4497.8	4495.7	4635.8	4860.6	5162.1	5570.4	6117.1	5999.0	5751.8	5666.2	4098.8
52.5°	3854.2	3858.4	4133.9	4493.6	4941.6	5535.0	6293.4	6520.3	6394.6	6305.6	4464.5
55°	3241.4	3266.7	3462.0	3980.7	4603.3	5403.4	6354.1	6763.6	6749.3	6664.9	4667.8
57.5°	2641.2	2687.2	2875.3	3359.9	4109.4	5100.1	6320.8	6869.1	7013.3	6948.8	4936.1
60°	1990.8	2011.9	2228.7	2681.7	3475.5	4546.8	6079.1	6926.5	7374.4	7329.7	5325.4
62.5°	1266.6	1319.3	1511.7	1948.6	2706.1	3778.3	5671.7	6925.6	7826.1	7850.6	5827.7
65°	667.3	728.8	830.9	1207.6	1859.6	2920.0	5058.8	6860.7	8380.3	8414.5	6220.4
67.5°	359.8	377.5	431.5	626.8	1078.5	1978.1	4158.3	6540.1	8701.3	8746.4	6275.2
70°	263.2	272.9	293.1	346.7	542.8	1148.9	3034.3	5813.4	8287.5	8270.7	5575.5
72.5°	202.0	217.2	232.4	253.9	312.1	613.3	1889.1	4552.3	6612.6	6501.3	4167.6
75°	159.4	162.0	183.5	202.9	234.1	349.2	838.9	2651.3	4036.0	3772.4	2161.2
77.5°	127.4	129.1	141.7	158.6	188.1	229.4	259.8	1043.1	1288.5	1149.8	469.0
80°	75.5	79.7	105.4	122.3	156.1	144.7	94.9	226.5	201.2	182.2	78.9
82.5°	42.2	45.6	59.5	96.6	108.8	69.2	47.2	61.2	47.2	46.0	22.4
85°	0.0	2.1	38.4	59.9	44.3	15.2	19.8	20.2	13.9	13.1	8.9
87.5°	0.0	0.0	11.8	11.4	1.7	2.5	4.6	6.7	5.5	5.5	4.6
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°	816.6	816.6	816.6	816.6	816.6	816.6	816.6	816.6	816.6	816.6	816.6
2.5°	832.6	809.8	766.8	724.6	689.2	660.1	633.9	623.4	615.0	613.7	606.9
5°	869.7	823.7	741.5	674.0	628.9	596.8	569.4	552.5	539.5	534.4	529.8
7.5°	925.8	856.2	738.1	660.5	606.5	552.5	501.9	447.1	412.9	399.8	392.3
10°	994.1	899.2	750.8	656.7	562.2	448.4	364.4	294.8	266.6	257.3	254.8
12.5°	1073.8	952.8	772.7	633.1	467.8	318.4	251.4	227.8	221.4	218.5	218.5
15°	1165.4	1011.4	788.3	564.8	345.9	240.8	217.6	206.7	199.9	196.1	196.5
17.5°	1259.0	1068.8	780.7	465.6	255.2	214.3	197.0	185.2	175.9	172.1	171.2
20°	1353.5	1121.9	738.5	346.7	216.0	194.4	175.0	162.0	152.7	148.9	148.0
22.5°	1451.3	1167.1	664.3	254.3	194.0	172.5	153.5	140.5	131.6	128.2	126.5
25°	1546.7	1203.8	560.5	205.8	173.4	151.8	133.7	121.5	113.5	110.1	109.7
27.5°	1635.7	1227.0	440.3	181.8	155.2	133.3	116.8	105.9	99.1	96.6	96.2
30°	1715.8	1229.1	325.6	164.1	139.2	117.3	102.1	92.4	86.5	83.9	83.1
32.5°	1796.8	1211.3	237.0	148.0	124.4	103.3	88.6	81.0	76.8	74.7	74.7
35°	1873.1	1170.4	184.7	134.1	110.1	89.8	78.0	72.5	70.0	67.9	67.9
37.5°	1947.8	1111.8	156.9	121.9	96.6	78.5	68.7	65.4	63.3	61.2	61.2
40°	2023.7	1038.0	142.6	110.5	85.6	69.6	61.2	58.2	56.1	54.4	54.0
42.5°	2116.9	952.8	133.3	100.0	75.9	61.6	54.0	50.6	48.9	47.2	46.4
45°	2224.9	879.4	125.7	89.4	67.9	54.8	46.8	43.4	40.9	38.8	38.4
47.5°	2380.5	826.3	115.6	78.0	60.3	47.7	40.5	36.7	32.9	30.8	30.4
50°	2579.2	782.4	102.5	67.9	52.7	40.5	33.7	29.1	25.7	23.6	23.6
52.5°	2677.9	725.0	90.7	59.0	44.3	34.2	27.4	21.9	20.2	18.1	18.1
55°	2717.5	681.2	78.9	50.2	36.7	28.3	21.5	16.9	15.6	14.3	13.9
57.5°	2828.9	668.5	68.7	42.6	30.4	22.4	16.4	12.7	11.8	10.1	10.1
60°	3008.1	674.8	59.5	36.3	24.5	17.3	12.2	9.7	8.9	7.2	7.2
62.5°	3201.7	666.8	50.2	31.2	19.0	12.7	8.4	7.2	7.2	4.2	3.8
65°	3238.8	593.9	43.0	25.7	14.8	9.3	5.5	4.6	6.3	0.8	0.0
67.5°	3006.0	460.6	37.1	19.8	11.0	7.2	4.2	2.1	5.5	0.0	0.0
70°	2403.7	292.7	29.9	14.3	8.4	5.9	3.4	0.8	4.2	0.0	0.0
72.5°	1699.8	170.0	23.6	10.1	7.2	4.6	2.5	0.0	2.5	0.0	0.0
75°	859.6	90.7	14.8	7.6	5.5	3.4	1.7	0.0	0.4	0.0	0.0
77.5°	186.0	42.2	9.3	5.5	3.8	2.1	0.8	0.0	0.0	0.0	0.0
80°	40.5	18.6	5.9	3.4	2.1	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	14.8	9.7	3.0	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.0	5.1	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	1.7	0.4	0.4	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)