

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: P1209593

Luminaire Tested: UPW-SA2-130-750-U-T2R-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209593
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-SA2-130-750-U-T2R-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPT WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13071 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

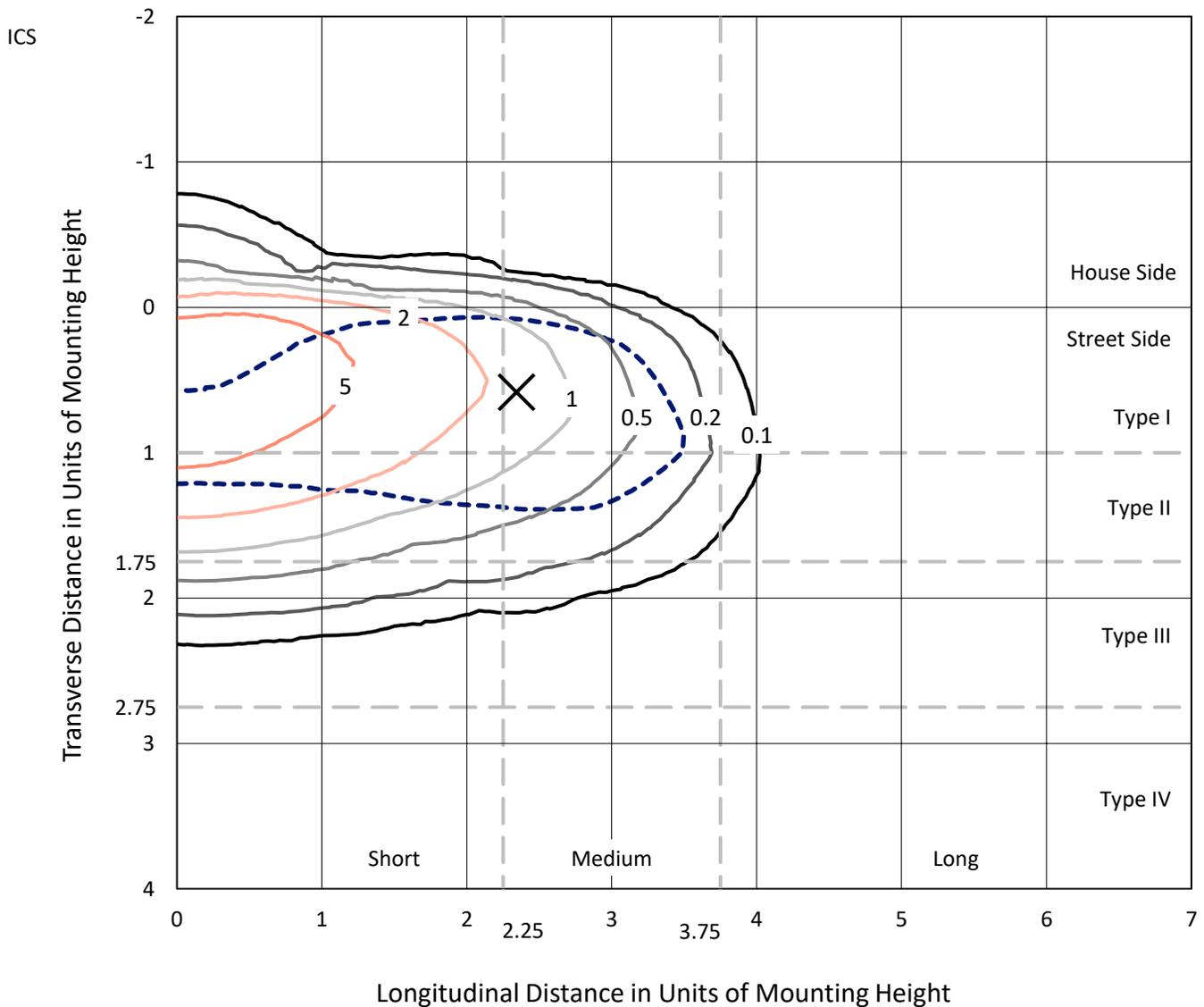
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

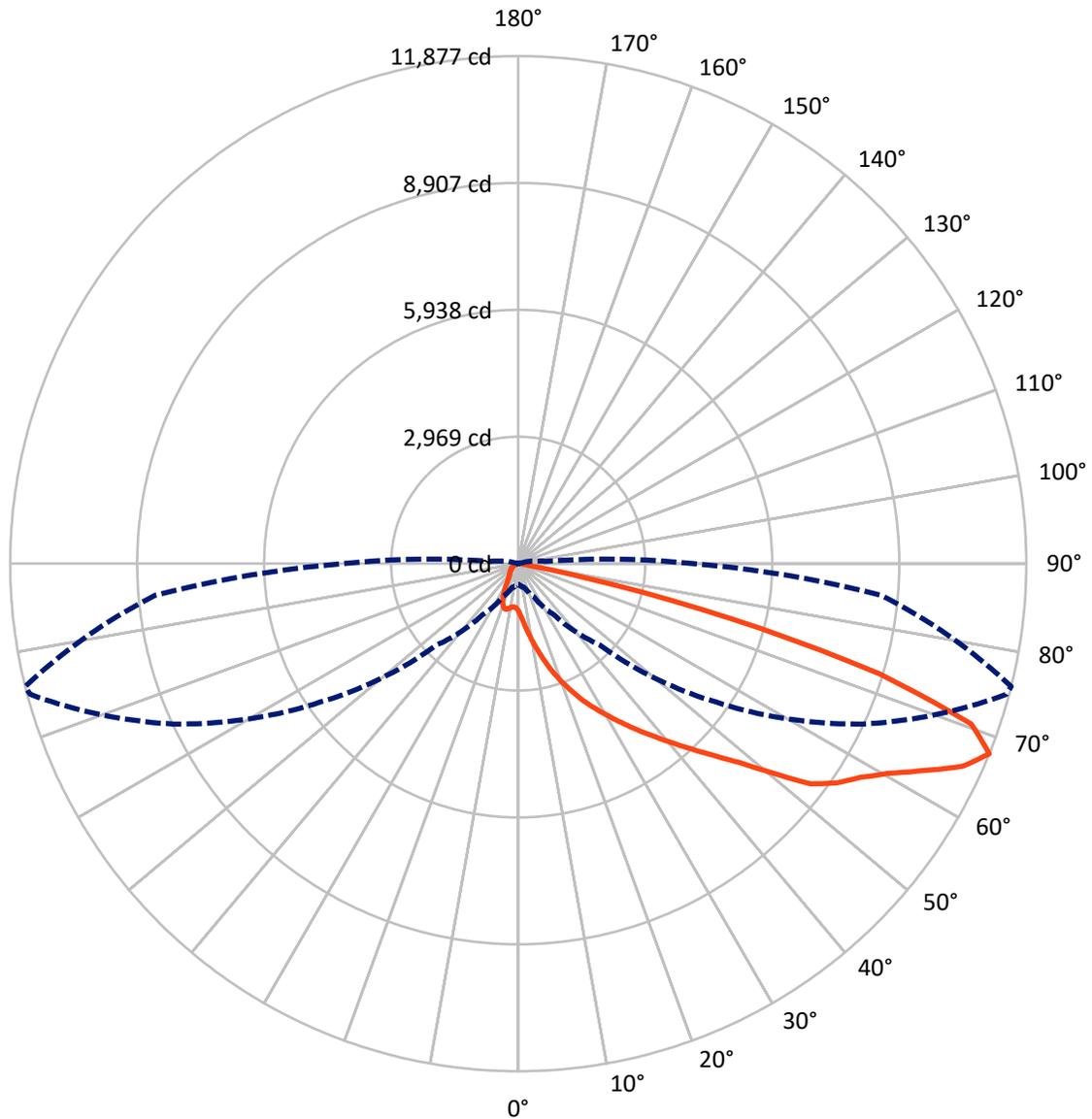
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.8 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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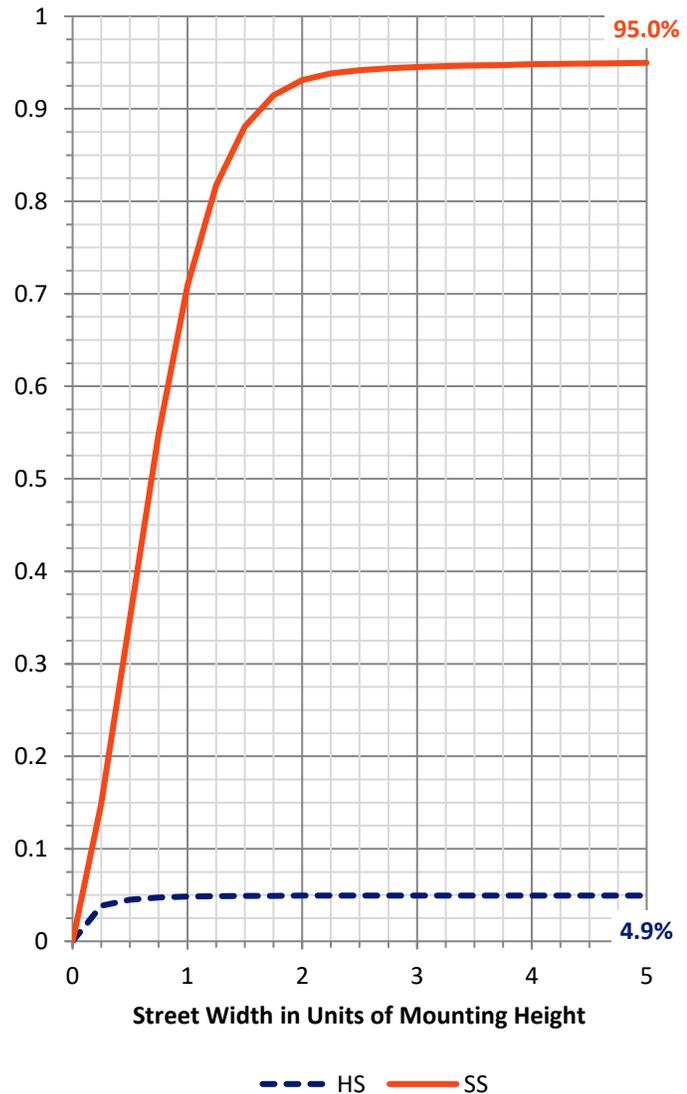
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	649.1	0.0	649.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	12421.9	0.0	12421.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	13071.0	0.0	13071.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.9	1.1
10°-20°	546.6	4.2
20°-30°	1112.1	8.5
30°-40°	1930.2	14.8
40°-50°	2727.1	20.9
50°-60°	3092.7	23.7
60°-70°	2565.1	19.6
70°-80°	929.2	7.1
80°-90°	30.1	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°	13071.0	100.0
0°-180°	13071.0	100.0



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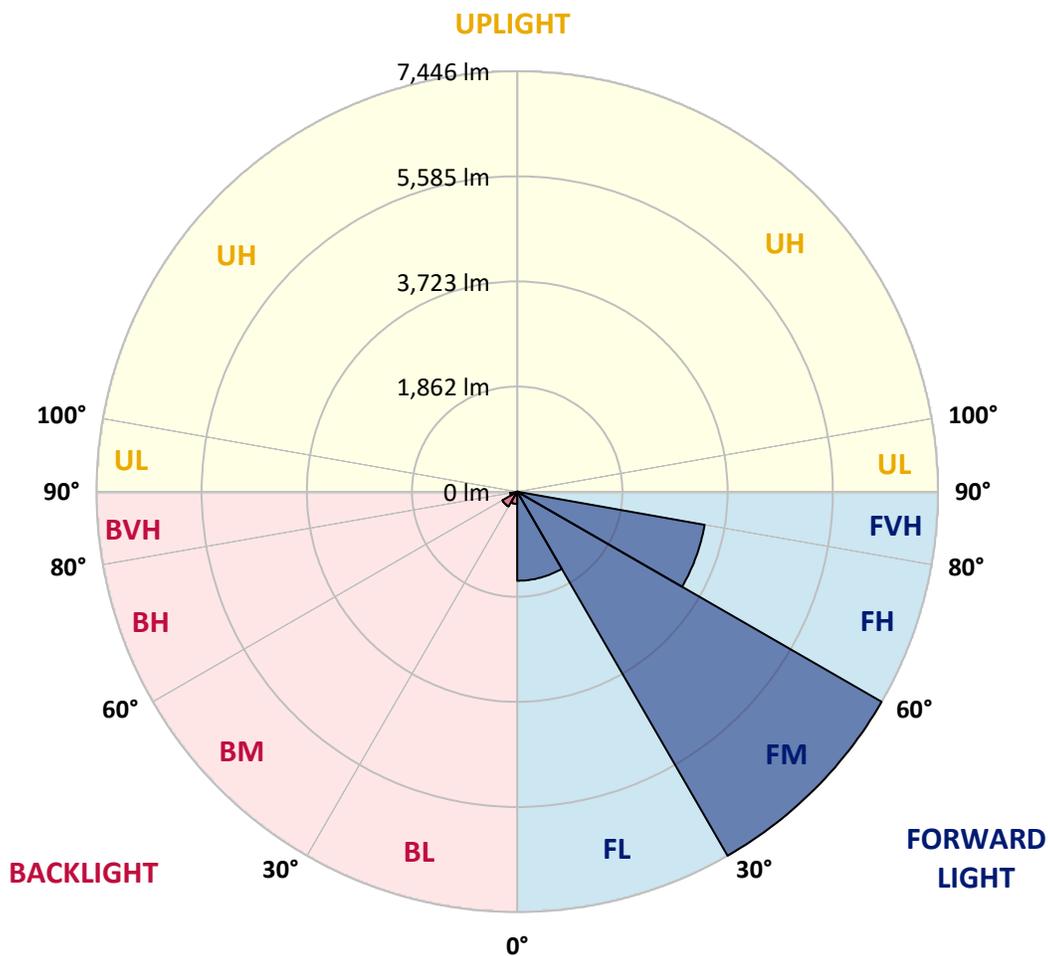
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1577.6	12.1			
FM	(30°-60°)	7446.3	57.0			
FH	(60°-80°)	3368.8	25.8			G2/5000
FVH	(80°-90°)	29.2	0.2			G1/100
BL	(0°-30°)	218.9	1.7	B1/500		
BM	(30°-60°)	303.8	2.3	B1/1000		
BH	(60°-80°)	125.4	1.0	B1/500		G1/500
BVH	(80°-90°)	0.9	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°	75°	76°	85°
0°	1108.8	1108.8	1108.8	1108.8	1108.8	1108.8	1108.8	1108.8	1108.8	1108.8	1108.8
2.5°	1655.2	1618.0	1626.5	1602.5	1559.0	1469.6	1393.4	1321.3	1237.1	1234.2	1164.9
5°	2231.9	2200.4	2196.4	2147.7	2068.7	1916.9	1769.2	1600.8	1412.9	1399.2	1252.0
7.5°	2755.4	2730.2	2721.0	2663.2	2516.0	2368.2	2175.8	1928.4	1634.6	1609.4	1369.4
10°	3157.4	3145.4	3147.7	3106.5	2980.5	2843.0	2590.4	2274.9	1886.0	1847.0	1510.3
12.5°	3462.1	3465.0	3485.6	3460.4	3390.0	3288.0	3018.3	2644.3	2164.3	2111.1	1671.2
15°	3686.1	3700.4	3738.2	3769.7	3764.5	3676.3	3428.9	3019.4	2459.9	2400.9	1850.5
17.5°	3831.0	3847.0	3902.0	3971.9	4036.0	4015.4	3825.2	3381.4	2758.8	2690.7	2042.3
20°	3958.1	3977.0	4036.0	4128.2	4247.9	4273.7	4148.8	3732.5	3057.2	2974.2	2240.5
22.5°	4233.6	4233.0	4269.1	4322.9	4436.9	4503.4	4424.3	4058.3	3352.2	3265.7	2442.7
25°	4731.9	4713.0	4700.4	4658.0	4683.2	4724.4	4680.3	4363.0	3648.8	3561.2	2647.7
27.5°	5324.1	5335.5	5233.6	5119.6	5031.4	4989.0	4916.9	4645.4	3934.1	3837.8	2848.2
30°	5948.9	5952.4	5832.1	5686.6	5492.5	5331.5	5206.7	4915.1	4227.3	4122.5	3042.9
32.5°	6512.5	6490.1	6371.0	6172.9	5927.7	5746.7	5487.3	5216.4	4537.7	4436.3	3259.4
35°	6959.2	6932.9	6788.0	6607.6	6353.3	6171.1	5859.0	5517.1	4864.2	4765.1	3476.5
37.5°	7285.7	7254.7	7105.8	6920.3	6700.9	6595.0	6290.3	5844.1	5220.4	5113.9	3705.0
40°	7399.1	7372.1	7278.8	7143.1	6966.7	6942.6	6747.9	6220.4	5608.1	5494.7	3963.8
42.5°	7331.5	7305.1	7271.9	7226.1	7152.8	7175.7	7179.7	6649.4	6038.8	5927.2	4249.6
45°	7063.4	7040.0	7074.3	7141.3	7232.4	7345.8	7573.7	7110.4	6519.9	6400.8	4580.1
47.5°	6668.8	6651.7	6746.7	6914.0	7180.3	7493.0	7934.0	7594.9	7060.0	6949.5	4992.5
50°	6107.6	6104.7	6294.8	6600.1	7009.6	7564.0	8306.3	8145.9	7810.3	7694.0	5565.8
52.5°	5233.6	5239.3	5613.3	6101.8	6710.1	7515.9	8545.7	8853.8	8683.1	8562.3	6062.3
55°	4401.4	4435.8	4700.9	5405.4	6250.7	7337.2	8628.1	9184.2	9164.8	9050.2	6338.4
57.5°	3586.4	3648.8	3904.3	4562.3	5580.1	6925.4	8582.9	9327.4	9523.3	9435.7	6702.6
60°	2703.3	2731.9	3026.3	3641.4	4719.3	6174.0	8254.7	9405.3	10013.6	9952.8	7231.3
62.5°	1719.9	1791.5	2052.7	2646.0	3674.6	5130.5	7701.5	9404.2	10626.9	10660.2	7913.4
65°	906.1	989.7	1128.3	1639.7	2525.2	3965.0	6869.3	9316.0	11379.5	11425.9	8446.6
67.5°	488.5	512.6	585.9	851.1	1464.5	2686.1	5646.5	8880.7	11815.4	11876.6	8521.0
70°	357.4	370.6	398.0	470.8	737.1	1560.1	4120.2	7893.9	11253.5	11230.6	7570.9
72.5°	274.3	295.0	315.6	344.8	423.8	832.7	2565.2	6181.4	8979.2	8828.0	5659.1
75°	216.5	219.9	249.1	275.5	317.9	474.2	1139.2	3600.2	5480.4	5122.5	2934.7
77.5°	173.0	175.3	192.4	215.3	255.4	311.6	352.8	1416.4	1749.7	1561.3	636.9
80°	102.5	108.2	143.2	166.1	211.9	196.4	128.9	307.6	273.2	247.4	107.1
82.5°	57.3	61.9	80.8	131.2	147.8	93.9	64.1	83.0	64.1	62.4	30.4
85°	0.0	2.9	52.1	81.3	60.1	20.6	26.9	27.5	18.9	17.8	12.0
87.5°	0.0	0.0	16.0	15.5	2.3	3.4	6.3	9.2	7.4	7.4	6.3
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°	1108.8	1108.8	1108.8	1108.8	1108.8	1108.8	1108.8	1108.8	1108.8	1108.8	1108.8
2.5°	1130.6	1099.6	1041.2	983.9	935.8	896.3	860.8	846.5	835.0	833.3	824.2
5°	1181.0	1118.5	1006.9	915.2	853.9	810.4	773.2	750.3	732.5	725.6	719.3
7.5°	1257.1	1162.6	1002.3	896.9	823.6	750.3	681.5	607.1	560.7	542.9	532.6
10°	1349.9	1221.1	1019.5	891.7	763.4	608.8	494.8	400.3	362.0	349.4	345.9
12.5°	1458.2	1293.8	1049.2	859.7	635.2	432.4	341.3	309.3	300.7	296.7	296.7
15°	1582.4	1373.4	1070.4	766.9	469.6	327.0	295.5	280.6	271.5	266.3	266.9
17.5°	1709.6	1451.3	1060.1	632.3	346.5	290.9	267.5	251.4	238.8	233.7	232.5
20°	1837.9	1523.5	1002.8	470.8	293.2	264.0	237.7	219.9	207.3	202.2	201.0
22.5°	1970.8	1584.7	902.0	345.4	263.5	234.2	208.5	190.7	178.7	174.1	171.8
25°	2100.2	1634.6	761.2	279.5	235.4	206.2	181.6	164.9	154.1	149.5	148.9
27.5°	2221.0	1666.1	597.9	246.8	210.8	181.0	158.6	143.8	134.6	131.2	130.6
30°	2329.9	1668.9	442.1	222.8	189.0	159.2	138.6	125.4	117.4	114.0	112.8
32.5°	2439.8	1644.9	321.9	201.0	169.0	140.3	120.3	110.0	104.2	101.4	101.4
35°	2543.5	1589.3	250.9	182.1	149.5	122.0	106.0	98.5	95.1	92.2	92.2
37.5°	2644.9	1509.7	213.1	165.5	131.2	106.5	93.4	88.8	85.9	83.0	83.0
40°	2747.9	1409.5	193.6	150.1	116.3	94.5	83.0	79.0	76.2	73.9	73.3
42.5°	2874.5	1293.8	181.0	135.7	103.1	83.6	73.3	68.7	66.4	64.1	63.0
45°	3021.1	1194.1	170.7	121.4	92.2	74.5	63.6	59.0	55.6	52.7	52.1
47.5°	3232.5	1122.0	156.9	106.0	81.9	64.7	55.0	49.8	44.7	41.8	41.2
50°	3502.2	1062.4	139.2	92.2	71.6	55.0	45.8	39.5	34.9	32.1	32.1
52.5°	3636.2	984.5	123.1	80.2	60.1	46.4	37.2	29.8	27.5	24.6	24.6
55°	3690.1	925.0	107.1	68.2	49.8	38.4	29.2	22.9	21.2	19.5	18.9
57.5°	3841.3	907.8	93.4	57.8	41.2	30.4	22.3	17.2	16.0	13.7	13.7
60°	4084.7	916.4	80.8	49.3	33.2	23.5	16.6	13.2	12.0	9.7	9.7
62.5°	4347.6	905.5	68.2	42.4	25.8	17.2	11.5	9.7	9.7	5.7	5.2
65°	4398.0	806.4	58.4	34.9	20.0	12.6	7.4	6.3	8.6	1.1	0.0
67.5°	4081.8	625.4	50.4	26.9	14.9	9.7	5.7	2.9	7.4	0.0	0.0
70°	3264.0	397.5	40.7	19.5	11.5	8.0	4.6	1.1	5.7	0.0	0.0
72.5°	2308.1	230.8	32.1	13.7	9.7	6.3	3.4	0.0	3.4	0.0	0.0
75°	1167.2	123.1	20.0	10.3	7.4	4.6	2.3	0.0	0.6	0.0	0.0
77.5°	252.6	57.3	12.6	7.4	5.2	2.9	1.1	0.0	0.0	0.0	0.0
80°	55.0	25.2	8.0	4.6	2.9	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	20.0	13.2	4.0	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.9	6.9	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	2.3	0.6	0.6	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)