

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: P1209512

Luminaire Tested: UPW-SA2-130-730-U-T2R-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-130-730-U-T2R-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 3000K, 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: 11904 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

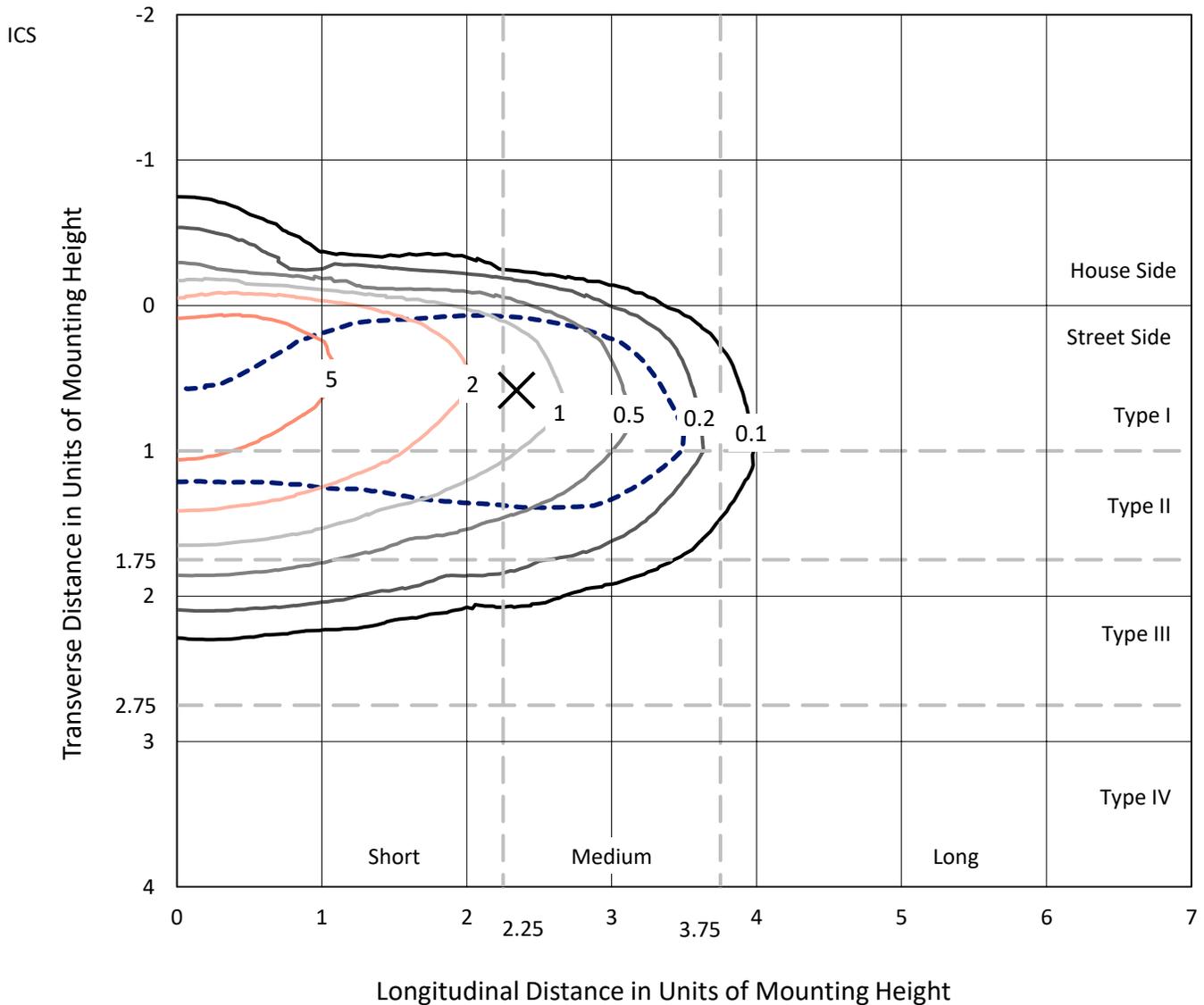
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

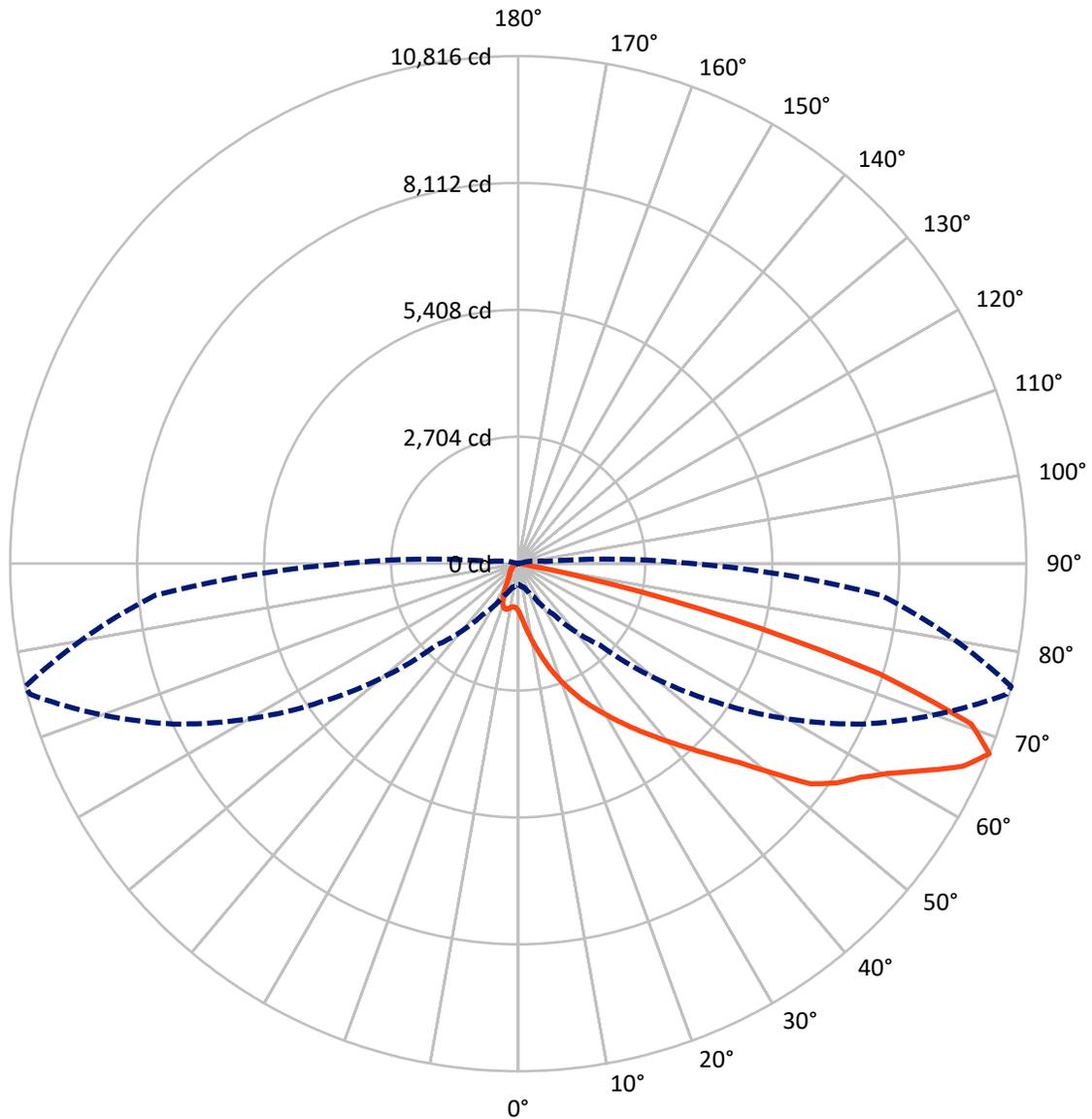
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.9 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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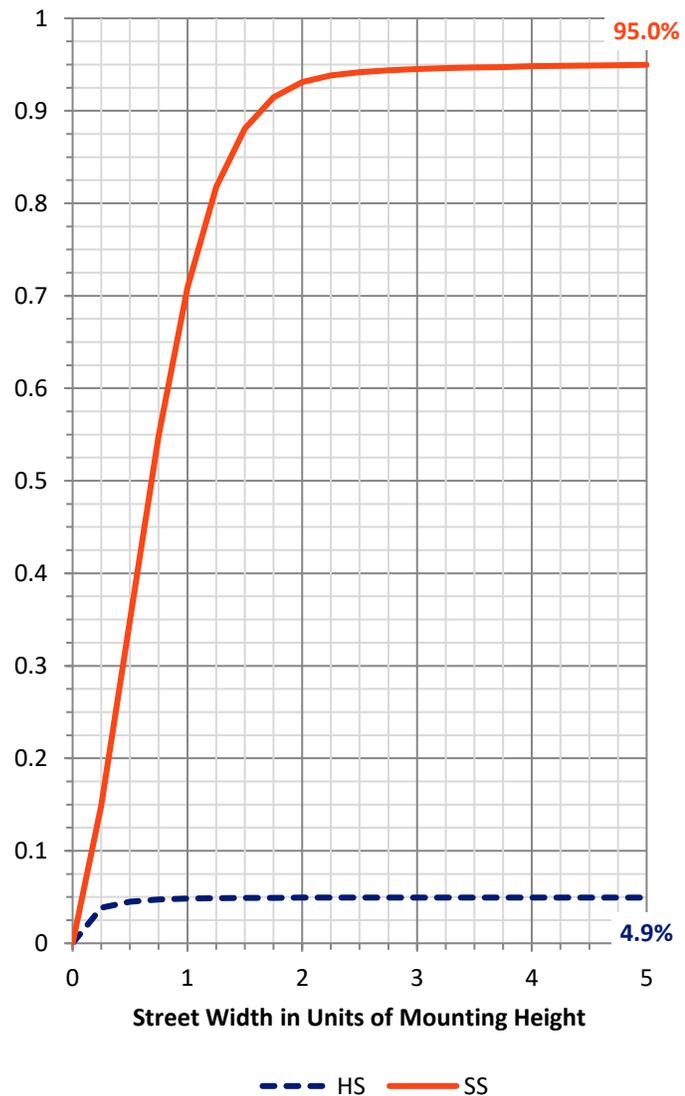
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	591.1	0.0	591.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	11312.9	0.0	11312.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	11904.0	0.0	11904.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	1.1
10°-20°	497.8	4.2
20°-30°	1012.8	8.5
30°-40°	1757.9	14.8
40°-50°	2483.7	20.9
50°-60°	2816.6	23.7
60°-70°	2336.1	19.6
70°-80°	846.2	7.1
80°-90°	27.4	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°	11904.0	100.0
0°-180°	11904.0	100.0



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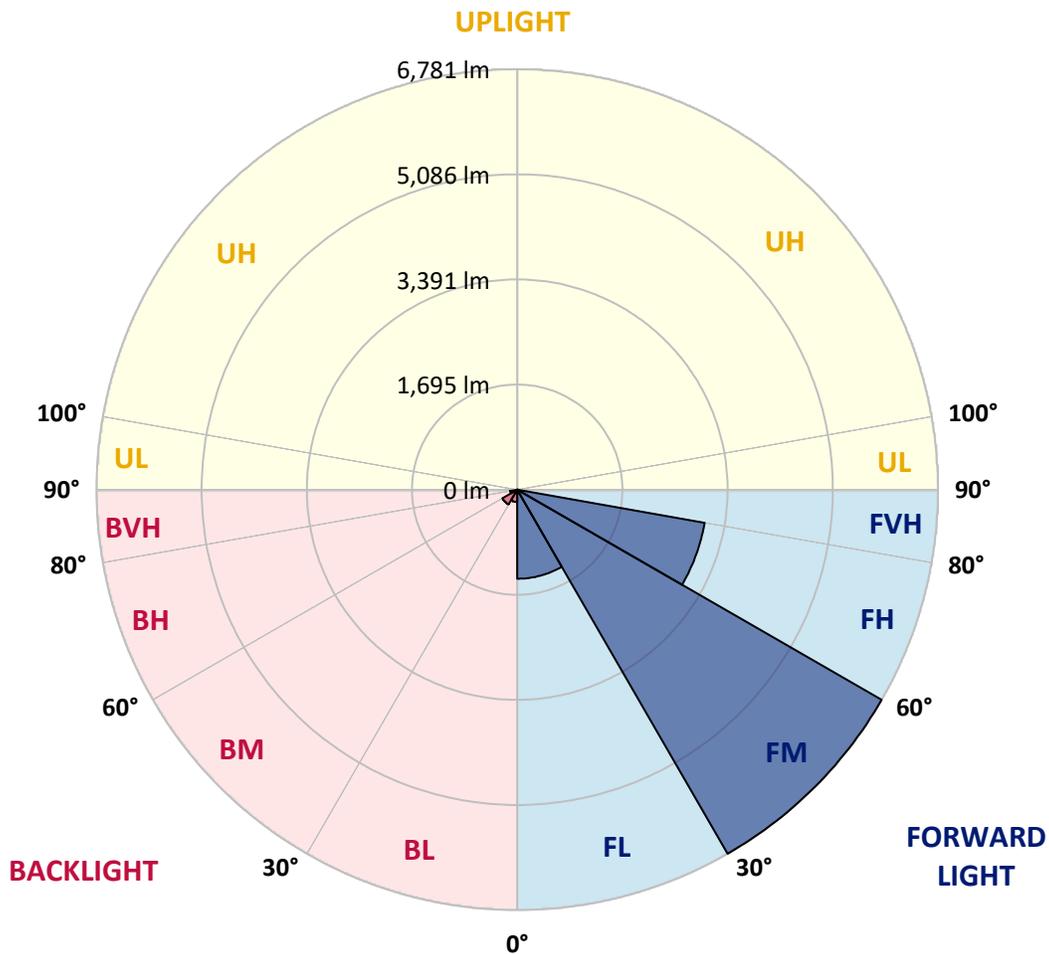
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1436.8	12.1			
FM	(30°-60°)	6781.5	57.0			
FH	(60°-80°)	3068.1	25.8			G2/5000
FVH	(80°-90°)	26.6	0.2			G1/100
BL	(0°-30°)	199.4	1.7	B1/500		
BM	(30°-60°)	276.7	2.3	B1/1000		
BH	(60°-80°)	114.2	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°	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8
2.5°	1507.4	1473.5	1481.3	1459.4	1419.8	1338.4	1269.0	1203.3	1126.6	1124.0	1060.9
5°	2032.6	2004.0	2000.3	1956.0	1884.0	1745.8	1611.2	1457.9	1286.8	1274.3	1140.2
7.5°	2509.4	2486.4	2478.1	2425.4	2291.4	2156.8	1981.5	1756.2	1488.6	1465.7	1247.1
10°	2875.5	2864.6	2866.7	2829.1	2714.4	2589.2	2359.2	2071.8	1717.6	1682.1	1375.4
12.5°	3153.0	3155.6	3174.4	3151.5	3087.3	2994.5	2748.8	2408.2	1971.1	1922.6	1522.0
15°	3357.0	3370.0	3404.4	3433.1	3428.4	3348.1	3122.8	2749.8	2240.2	2186.5	1685.3
17.5°	3488.9	3503.5	3553.6	3617.2	3675.7	3656.9	3483.7	3079.5	2512.5	2450.4	1860.0
20°	3604.7	3621.9	3675.7	3759.6	3868.7	3892.1	3778.4	3399.2	2784.3	2708.6	2040.5
22.5°	3855.6	3855.1	3888.0	3937.0	4040.8	4101.3	4029.3	3696.0	3052.9	2974.1	2224.6
25°	4309.4	4292.2	4280.7	4242.1	4265.1	4302.6	4262.5	3973.5	3323.1	3243.3	2411.3
27.5°	4848.7	4859.2	4766.3	4662.5	4582.2	4543.6	4477.9	4230.6	3582.8	3495.2	2593.9
30°	5417.8	5420.9	5311.4	5178.9	5002.1	4855.5	4741.8	4476.3	3849.9	3754.4	2771.2
32.5°	5931.0	5910.7	5802.2	5621.7	5398.5	5233.7	4997.4	4750.7	4132.6	4040.3	2968.4
35°	6337.9	6313.9	6181.9	6017.6	5786.0	5620.2	5335.9	5024.5	4429.9	4339.7	3166.1
37.5°	6635.2	6607.0	6471.4	6302.4	6102.6	6006.1	5728.7	5322.3	4754.3	4657.3	3374.2
40°	6738.5	6713.9	6628.9	6505.3	6344.7	6322.7	6145.4	5665.0	5107.4	5004.2	3609.9
42.5°	6676.9	6652.9	6622.7	6580.9	6514.2	6535.0	6538.7	6055.7	5499.7	5398.0	3870.2
45°	6432.8	6411.4	6442.7	6503.7	6586.7	6690.0	6897.5	6475.6	5937.8	5829.3	4171.2
47.5°	6073.4	6057.8	6144.4	6296.7	6539.2	6824.0	7225.6	6916.8	6429.7	6329.0	4546.7
50°	5562.3	5559.7	5732.8	6010.8	6383.8	6888.7	7564.7	7418.6	7113.0	7007.1	5068.8
52.5°	4766.3	4771.5	5112.1	5557.1	6111.0	6844.9	7782.7	8063.3	7907.9	7797.8	5521.1
55°	4008.4	4039.7	4281.2	4922.8	5692.7	6682.1	7857.8	8364.3	8346.5	8242.2	5772.5
57.5°	3266.2	3323.1	3555.7	4155.0	5081.9	6307.1	7816.6	8494.7	8673.0	8593.2	6104.2
60°	2461.9	2488.0	2756.1	3316.3	4297.9	5622.8	7517.7	8565.6	9119.5	9064.2	6585.6
62.5°	1566.3	1631.5	1869.4	2409.8	3346.5	4672.4	7013.9	8564.6	9678.2	9708.4	7206.8
65°	825.2	901.3	1027.5	1493.3	2299.7	3611.0	6256.0	8484.2	10363.5	10405.8	7692.5
67.5°	444.9	466.8	533.6	775.1	1333.7	2446.3	5142.4	8087.8	10760.5	10816.3	7760.3
70°	325.5	337.5	362.5	428.7	671.3	1420.8	3752.3	7189.1	10248.8	10227.9	6894.9
72.5°	249.8	268.6	287.4	314.0	386.0	758.4	2336.2	5629.6	8177.5	8039.8	5153.9
75°	197.2	200.3	226.9	250.9	289.5	431.9	1037.4	3278.7	4991.1	4665.1	2672.6
77.5°	157.5	159.6	175.3	196.1	232.6	283.7	321.3	1289.9	1593.5	1421.9	580.0
80°	93.4	98.6	130.4	151.3	193.0	178.9	117.4	280.1	248.8	225.3	97.5
82.5°	52.2	56.3	73.5	119.4	134.6	85.5	58.4	75.6	58.4	56.9	27.6
85°	0.0	2.6	47.5	74.1	54.8	18.8	24.5	25.0	17.2	16.2	11.0
87.5°	0.0	0.0	14.6	14.1	2.1	3.1	5.7	8.3	6.8	6.8	5.7
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°	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8
2.5°	1029.6	1001.5	948.3	896.1	852.3	816.3	784.0	770.9	760.5	758.9	750.6
5°	1075.5	1018.7	917.0	833.5	777.7	738.1	704.2	683.3	667.1	660.9	655.1
7.5°	1144.9	1058.8	912.8	816.8	750.1	683.3	620.7	552.9	510.6	494.5	485.1
10°	1229.4	1112.0	928.4	812.1	695.3	554.5	450.7	364.6	329.6	318.2	315.0
12.5°	1328.0	1178.3	955.6	782.9	578.4	393.8	310.9	281.7	273.8	270.2	270.2
15°	1441.2	1250.8	974.9	698.4	427.7	297.8	269.1	255.6	247.2	242.5	243.1
17.5°	1557.0	1321.7	965.5	575.8	315.6	265.0	243.6	229.0	217.5	212.8	211.8
20°	1673.8	1387.4	913.3	428.7	267.1	240.5	216.5	200.3	188.8	184.1	183.1
22.5°	1794.8	1443.2	821.5	314.5	239.9	213.3	189.9	173.7	162.7	158.6	156.5
25°	1912.7	1488.6	693.2	254.5	214.4	187.8	165.3	150.2	140.3	136.1	135.6
27.5°	2022.7	1517.3	544.5	224.8	191.9	164.8	144.5	130.9	122.6	119.4	118.9
30°	2121.8	1519.9	402.7	202.9	172.1	145.0	126.2	114.2	106.9	103.8	102.8
32.5°	2222.0	1498.0	293.1	183.1	153.9	127.8	109.5	100.1	94.9	92.3	92.3
35°	2316.4	1447.4	228.5	165.9	136.1	111.1	96.5	89.7	86.6	84.0	84.0
37.5°	2408.7	1374.9	194.0	150.7	119.4	97.0	85.0	80.8	78.2	75.6	75.6
40°	2502.6	1283.6	176.3	136.7	105.9	86.1	75.6	72.0	69.4	67.3	66.8
42.5°	2617.9	1178.3	164.8	123.6	93.9	76.2	66.8	62.6	60.5	58.4	57.4
45°	2751.4	1087.5	155.4	110.6	84.0	67.8	57.9	53.7	50.6	48.0	47.5
47.5°	2943.9	1021.8	142.9	96.5	74.6	58.9	50.1	45.4	40.7	38.1	37.6
50°	3189.5	967.6	126.7	84.0	65.2	50.1	41.7	36.0	31.8	29.2	29.2
52.5°	3311.6	896.6	112.1	73.0	54.8	42.2	33.9	27.1	25.0	22.4	22.4
55°	3360.6	842.4	97.5	62.1	45.4	34.9	26.6	20.9	19.3	17.7	17.2
57.5°	3498.3	826.7	85.0	52.7	37.6	27.6	20.3	15.6	14.6	12.5	12.5
60°	3720.0	834.5	73.5	44.9	30.3	21.4	15.1	12.0	11.0	8.9	8.9
62.5°	3959.4	824.6	62.1	38.6	23.5	15.6	10.4	8.9	8.9	5.2	4.7
65°	4005.3	734.4	53.2	31.8	18.3	11.5	6.8	5.7	7.8	1.0	0.0
67.5°	3717.4	569.6	45.9	24.5	13.6	8.9	5.2	2.6	6.8	0.0	0.0
70°	2972.6	362.0	37.0	17.7	10.4	7.3	4.2	1.0	5.2	0.0	0.0
72.5°	2102.0	210.2	29.2	12.5	8.9	5.7	3.1	0.0	3.1	0.0	0.0
75°	1063.0	112.1	18.3	9.4	6.8	4.2	2.1	0.0	0.5	0.0	0.0
77.5°	230.0	52.2	11.5	6.8	4.7	2.6	1.0	0.0	0.0	0.0	0.0
80°	50.1	23.0	7.3	4.2	2.6	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	18.3	12.0	3.7	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.9	6.3	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	2.1	0.5	0.5	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)