

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: P1209323

Luminaire Tested: UPW-SA2-110-740-U-T2R-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209323
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-SA2-110-740-U-T2R-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 4000K, 1050mA 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: 11915 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

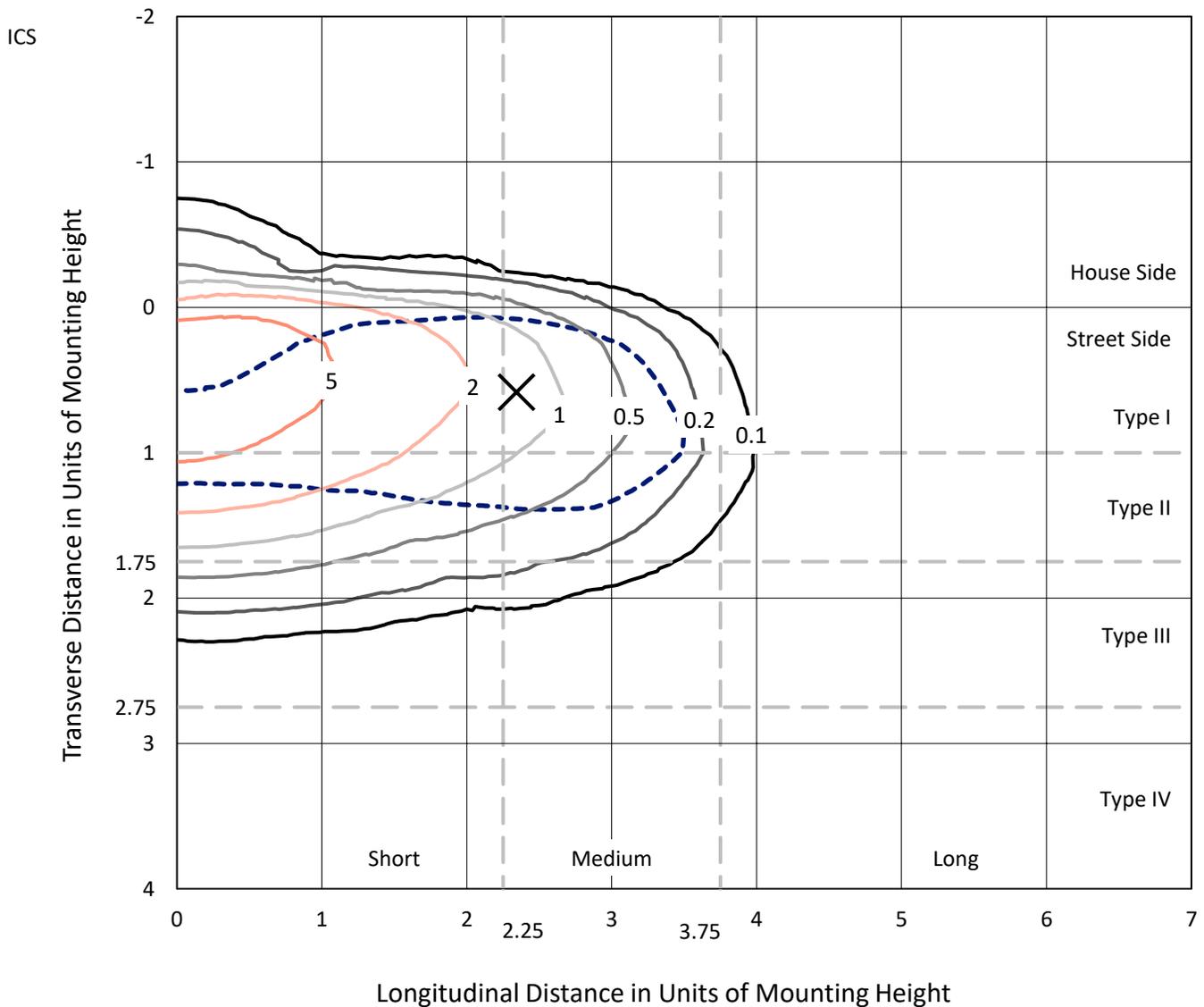
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

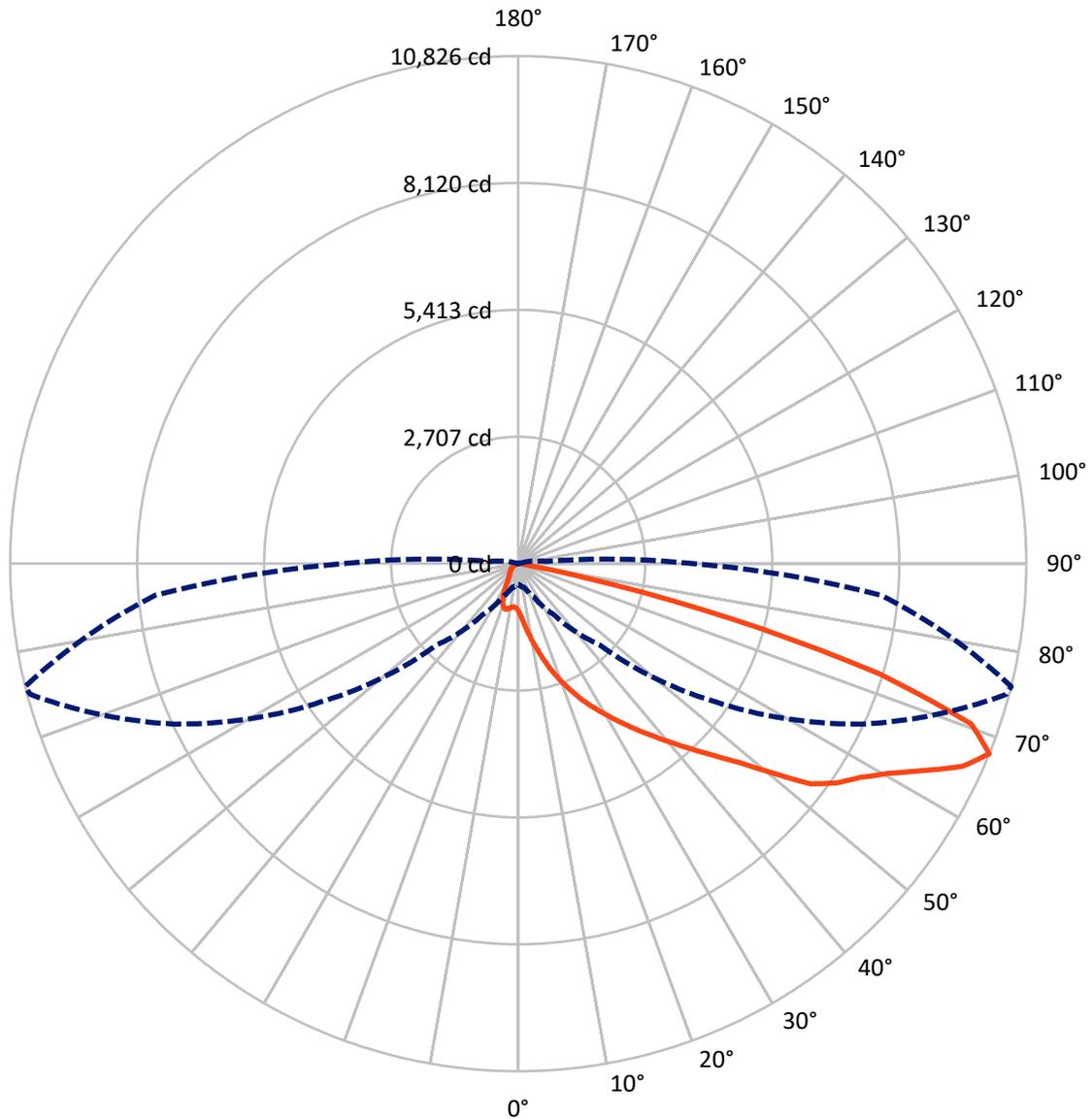
× Max cd
 - - - 1/2 Max cd



Based on 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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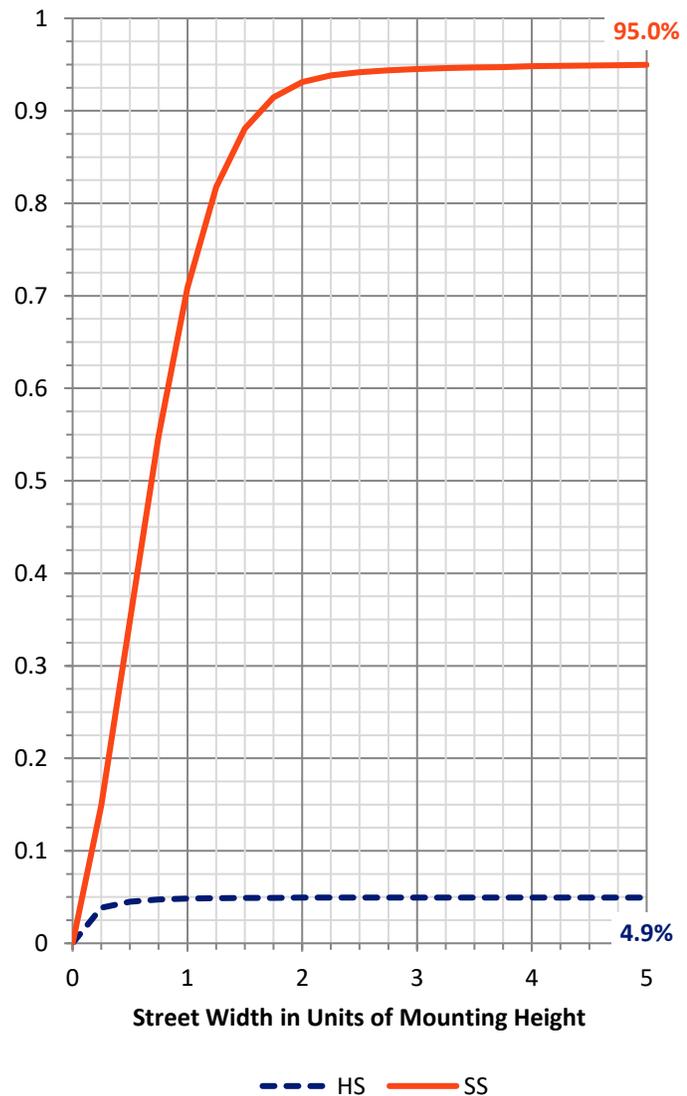
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	591.7	0.0	591.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	11323.3	0.0	11323.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	11915.0	0.0	11915.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	1.1
10°-20°	498.2	4.2
20°-30°	1013.7	8.5
30°-40°	1759.5	14.8
40°-50°	2486.0	20.9
50°-60°	2819.2	23.7
60°-70°	2338.3	19.6
70°-80°	847.0	7.1
80°-90°	27.5	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°	11915.0	100.0
0°-180°	11915.0	100.0



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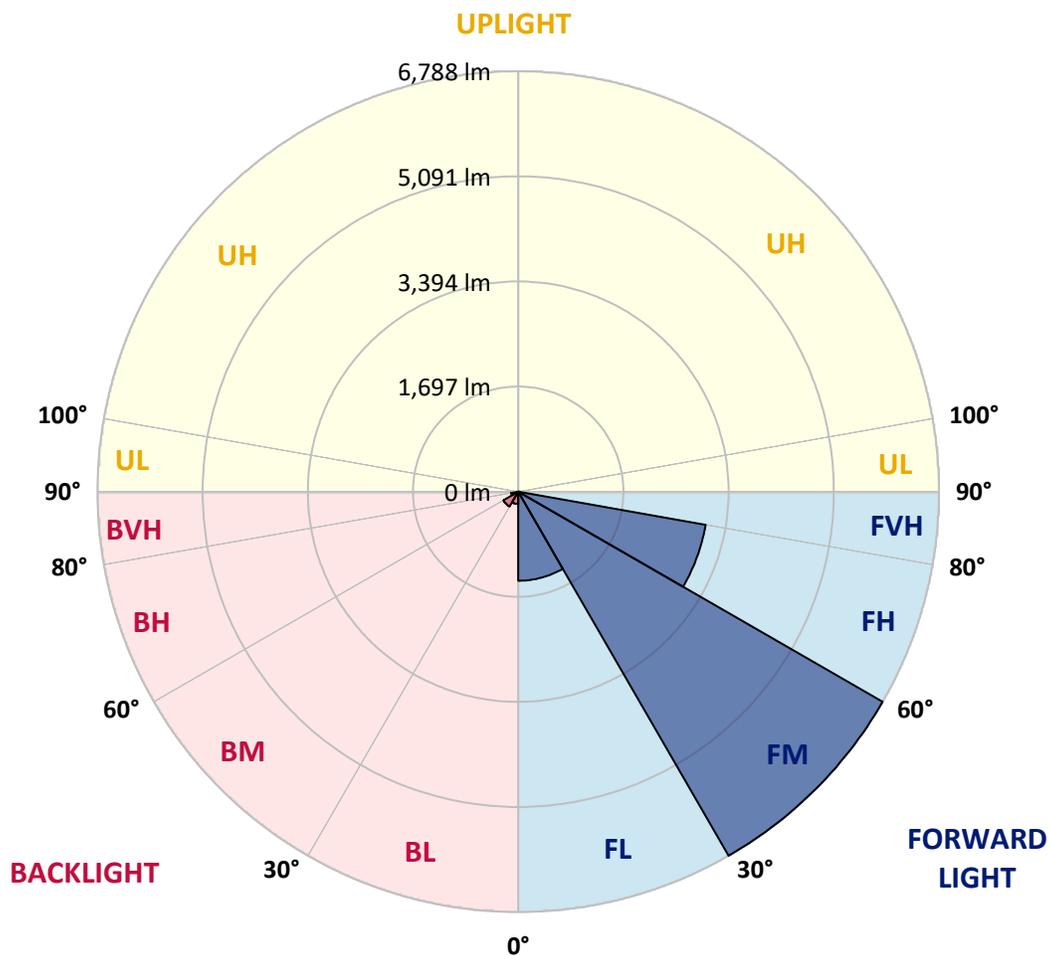
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1438.1	12.1			
FM	(30°-60°)	6787.7	57.0			
FH	(60°-80°)	3070.9	25.8			G2/5000
FVH	(80°-90°)	26.6	0.2			G1/100
BL	(0°-30°)	199.5	1.7	B1/500		
BM	(30°-60°)	276.9	2.3	B1/1000		
BH	(60°-80°)	114.3	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°	1010.7	1010.7	1010.7	1010.7	1010.7	1010.7	1010.7	1010.7	1010.7	1010.7	1010.7
2.5°	1508.8	1474.9	1482.7	1460.8	1421.1	1339.6	1270.2	1204.4	1127.7	1125.1	1061.9
5°	2034.5	2005.8	2002.2	1957.8	1885.7	1747.4	1612.7	1459.2	1288.0	1275.4	1141.3
7.5°	2511.7	2488.7	2480.4	2427.6	2293.5	2158.8	1983.4	1757.8	1490.0	1467.0	1248.3
10°	2878.2	2867.2	2869.3	2831.7	2716.9	2591.6	2361.3	2073.7	1719.2	1683.7	1376.7
12.5°	3155.9	3158.6	3177.3	3154.4	3090.2	2997.2	2751.3	2410.4	1972.9	1924.4	1523.4
15°	3360.1	3373.1	3407.6	3436.3	3431.6	3351.2	3125.7	2752.4	2242.3	2188.5	1686.8
17.5°	3492.2	3506.8	3556.9	3620.6	3679.1	3660.3	3486.9	3082.3	2514.8	2452.7	1861.7
20°	3608.1	3625.3	3679.1	3763.1	3872.2	3895.7	3781.9	3402.4	2786.8	2711.1	2042.4
22.5°	3859.2	3858.7	3891.5	3940.6	4044.5	4105.1	4033.0	3699.4	3055.7	2976.9	2226.6
25°	4313.4	4296.2	4284.7	4246.0	4269.0	4306.6	4266.4	3977.2	3326.1	3246.3	2413.6
27.5°	4853.2	4863.7	4770.7	4666.8	4586.4	4547.8	4482.0	4234.5	3586.1	3498.4	2596.3
30°	5422.8	5425.9	5316.3	5183.7	5006.7	4860.0	4746.2	4480.4	3853.4	3757.9	2773.8
32.5°	5936.5	5916.2	5807.6	5626.9	5403.5	5238.5	5002.0	4755.1	4136.4	4044.0	2971.1
35°	6343.7	6319.7	6187.6	6023.2	5791.4	5625.4	5340.8	5029.1	4434.0	4343.7	3169.0
37.5°	6641.3	6613.1	6477.4	6308.2	6108.3	6011.7	5733.9	5327.3	4758.7	4661.6	3377.3
40°	6744.7	6720.1	6635.1	6511.3	6350.5	6328.6	6151.1	5670.3	5112.2	5008.8	3613.3
42.5°	6683.1	6659.1	6628.8	6587.0	6520.2	6541.1	6544.7	6061.3	5504.8	5403.0	3873.8
45°	6438.8	6417.3	6448.7	6509.8	6592.8	6696.1	6903.9	6481.6	5943.3	5834.7	4175.0
47.5°	6079.0	6063.4	6150.0	6302.5	6545.3	6830.3	7232.3	6923.2	6435.6	6334.9	4550.9
50°	5567.4	5564.8	5738.1	6016.4	6389.7	6895.0	7571.7	7425.5	7119.5	7013.6	5073.5
52.5°	4770.7	4775.9	5116.9	5562.2	6116.6	6851.2	7789.9	8070.8	7915.2	7805.0	5526.2
55°	4012.1	4043.5	4285.2	4927.3	5697.9	6688.3	7865.1	8372.0	8354.2	8249.8	5777.8
57.5°	3269.2	3326.1	3559.0	4158.8	5086.6	6312.9	7823.8	8502.5	8681.1	8601.2	6109.8
60°	2464.2	2490.3	2758.6	3319.4	4301.9	5628.0	7524.7	8573.5	9128.0	9072.6	6591.7
62.5°	1567.8	1633.1	1871.1	2412.0	3349.6	4676.7	7020.3	8572.5	9687.1	9717.4	7213.5
65°	825.9	902.1	1028.5	1494.7	2301.8	3614.3	6261.8	8492.1	10373.1	10415.4	7699.6
67.5°	445.3	467.3	534.1	775.8	1334.9	2448.5	5147.1	8095.3	10770.4	10826.3	7767.4
70°	325.8	337.8	362.8	429.1	671.9	1422.1	3755.8	7195.8	10258.3	10237.4	6901.3
72.5°	250.1	268.9	287.7	314.3	386.3	759.1	2338.4	5634.8	8185.1	8047.3	5158.6
75°	197.3	200.5	227.1	251.1	289.8	432.3	1038.4	3281.8	4995.7	4669.4	2675.1
77.5°	157.7	159.8	175.4	196.3	232.8	284.0	321.6	1291.1	1594.9	1423.2	580.5
80°	93.5	98.7	130.5	151.4	193.2	179.1	117.5	280.4	249.0	225.5	97.6
82.5°	52.2	56.4	73.6	119.6	134.7	85.6	58.5	75.7	58.5	56.9	27.7
85°	0.0	2.6	47.5	74.1	54.8	18.8	24.5	25.1	17.2	16.2	11.0
87.5°	0.0	0.0	14.6	14.1	2.1	3.1	5.7	8.4	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°	1010.7	1010.7	1010.7	1010.7	1010.7	1010.7	1010.7	1010.7	1010.7	1010.7	1010.7
2.5°	1030.6	1002.4	949.1	896.9	853.1	817.0	784.7	771.6	761.2	759.6	751.3
5°	1076.5	1019.6	917.8	834.3	778.4	738.7	704.8	683.9	667.7	661.5	655.7
7.5°	1146.0	1059.8	913.6	817.6	750.7	683.9	621.3	553.4	511.1	494.9	485.5
10°	1230.5	1113.1	929.3	812.9	695.9	555.0	451.1	364.9	330.0	318.5	315.3
12.5°	1329.2	1179.4	956.4	783.6	579.0	394.2	311.2	281.9	274.1	270.4	270.4
15°	1442.5	1251.9	975.8	699.1	428.1	298.1	269.4	255.8	247.5	242.8	243.3
17.5°	1558.4	1322.9	966.4	576.4	315.9	265.2	243.8	229.2	217.7	213.0	212.0
20°	1675.3	1388.7	914.2	429.1	267.3	240.7	216.7	200.5	189.0	184.3	183.2
22.5°	1796.5	1444.6	822.3	314.8	240.2	213.5	190.0	173.9	162.9	158.7	156.6
25°	1914.4	1490.0	693.8	254.8	214.6	187.9	165.5	150.4	140.4	136.3	135.7
27.5°	2024.6	1518.7	545.0	225.0	192.1	165.0	144.6	131.0	122.7	119.6	119.0
30°	2123.8	1521.3	403.0	203.1	172.3	145.1	126.3	114.3	107.0	103.9	102.8
32.5°	2224.0	1499.4	293.4	183.2	154.0	127.9	109.6	100.2	95.0	92.4	92.4
35°	2318.5	1448.8	228.7	166.0	136.3	111.2	96.6	89.8	86.7	84.1	84.1
37.5°	2410.9	1376.2	194.2	150.9	119.6	97.1	85.1	80.9	78.3	75.7	75.7
40°	2504.9	1284.8	176.5	136.8	106.0	86.1	75.7	72.0	69.4	67.3	66.8
42.5°	2620.3	1179.4	165.0	123.7	94.0	76.2	66.8	62.6	60.6	58.5	57.4
45°	2753.9	1088.5	155.6	110.7	84.1	67.9	58.0	53.8	50.6	48.0	47.5
47.5°	2946.6	1022.7	143.0	96.6	74.7	59.0	50.1	45.4	40.7	38.1	37.6
50°	3192.5	968.4	126.9	84.1	65.3	50.1	41.8	36.0	31.8	29.2	29.2
52.5°	3314.7	897.4	112.2	73.1	54.8	42.3	33.9	27.1	25.1	22.4	22.4
55°	3363.7	843.2	97.6	62.1	45.4	35.0	26.6	20.9	19.3	17.8	17.2
57.5°	3501.6	827.5	85.1	52.7	37.6	27.7	20.4	15.7	14.6	12.5	12.5
60°	3723.4	835.3	73.6	44.9	30.3	21.4	15.1	12.0	11.0	8.9	8.9
62.5°	3963.1	825.4	62.1	38.6	23.5	15.7	10.4	8.9	8.9	5.2	4.7
65°	4009.0	735.1	53.3	31.8	18.3	11.5	6.8	5.7	7.8	1.0	0.0
67.5°	3720.8	570.1	45.9	24.5	13.6	8.9	5.2	2.6	6.8	0.0	0.0
70°	2975.3	362.3	37.1	17.8	10.4	7.3	4.2	1.0	5.2	0.0	0.0
72.5°	2104.0	210.4	29.2	12.5	8.9	5.7	3.1	0.0	3.1	0.0	0.0
75°	1064.0	112.2	18.3	9.4	6.8	4.2	2.1	0.0	0.5	0.0	0.0
77.5°	230.2	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)