

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: P1209485

Luminaire Tested: UPW-SA2-130-727-U-T2R-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-130-727-U-T2R-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 2700K, 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: 10931 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

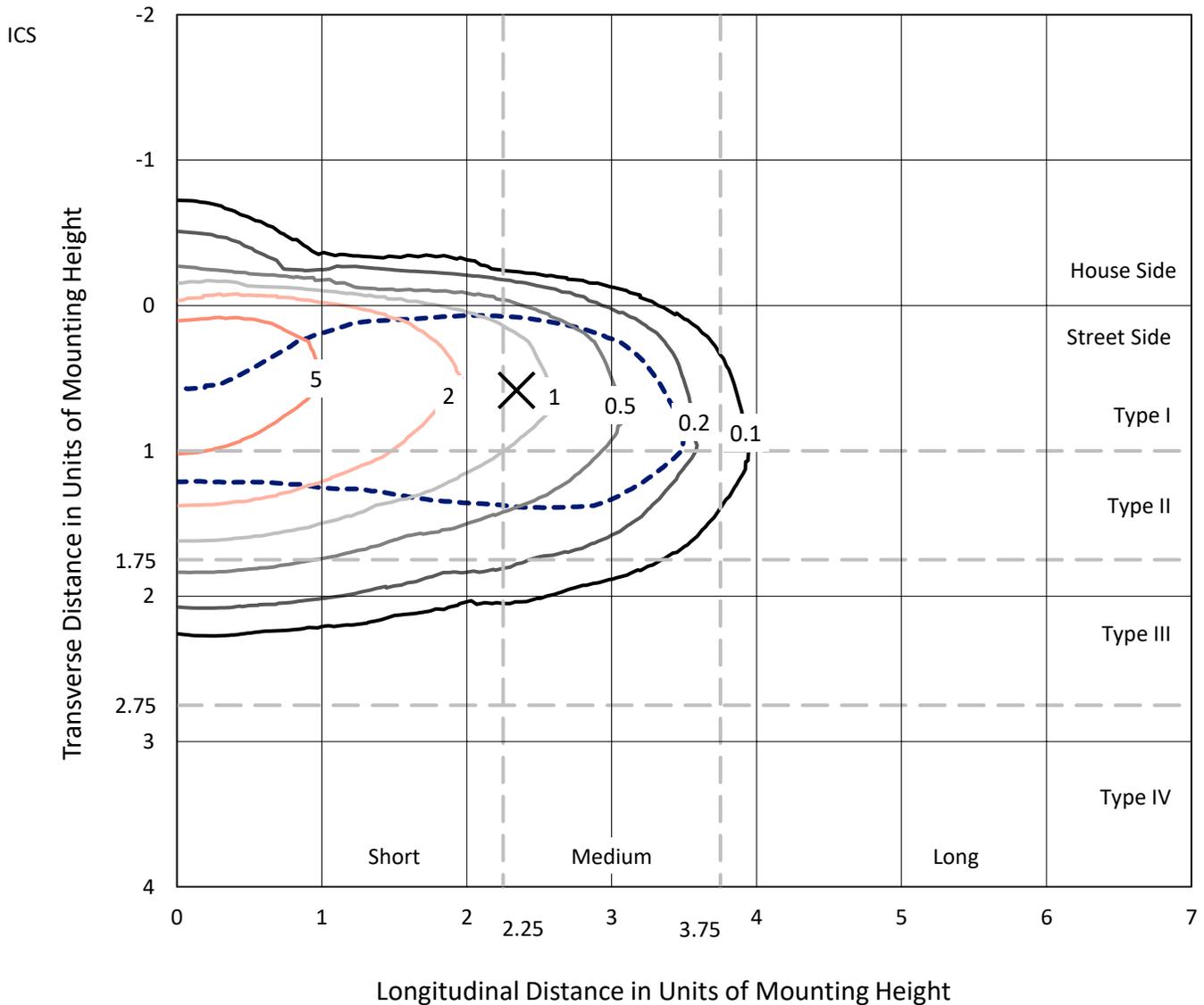
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P1209485
 CATALOG NUMBER: UPW-SA2-130-727-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

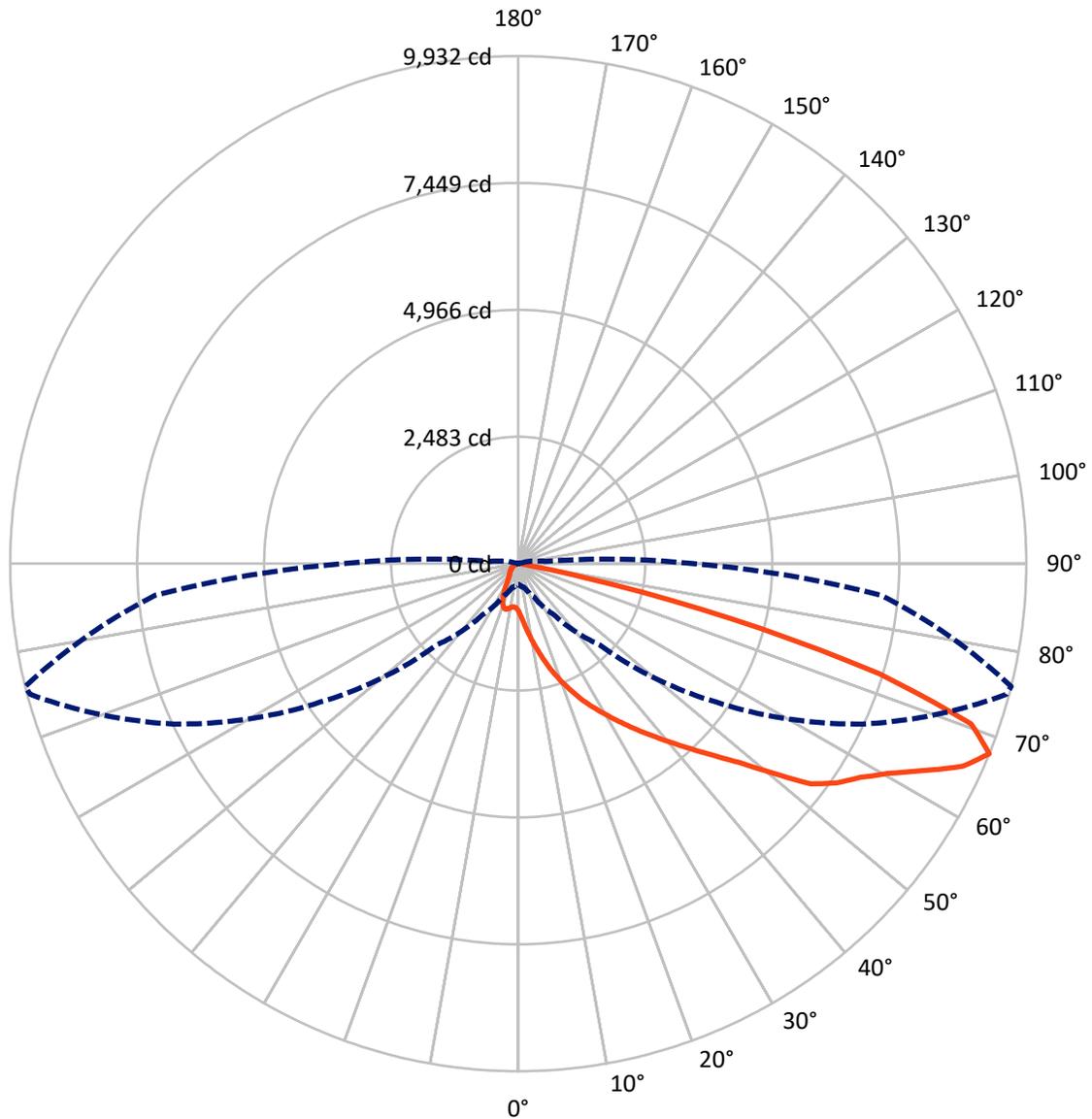
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P1209485
CATALOG NUMBER: UPW-SA2-130-727-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P1209485

CATALOG NUMBER: UPW-SA2-130-727-U-T2R-HSS

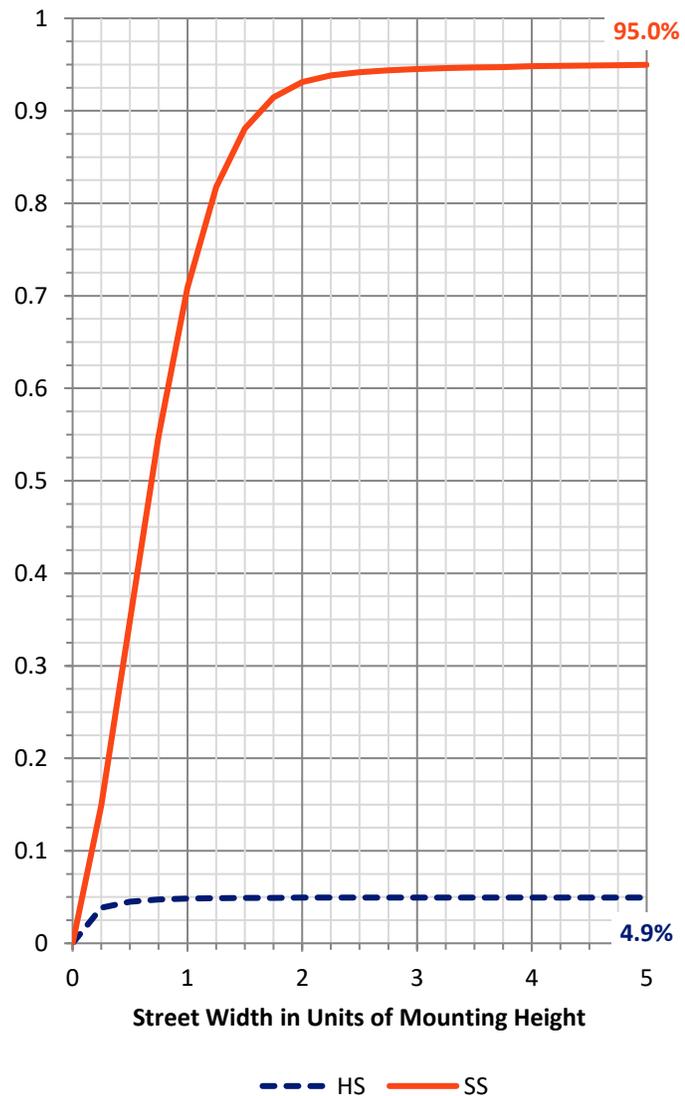
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	542.8	0.0	542.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	10388.2	0.0	10388.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	10931.0	0.0	10931.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	1.1
10°-20°	457.1	4.2
20°-30°	930.0	8.5
30°-40°	1614.2	14.8
40°-50°	2280.7	20.9
50°-60°	2586.4	23.7
60°-70°	2145.1	19.6
70°-80°	777.0	7.1
80°-90°	25.2	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°	10931.0	100.0
0°-180°	10931.0	100.0



REPORT NUMBER: P1209485

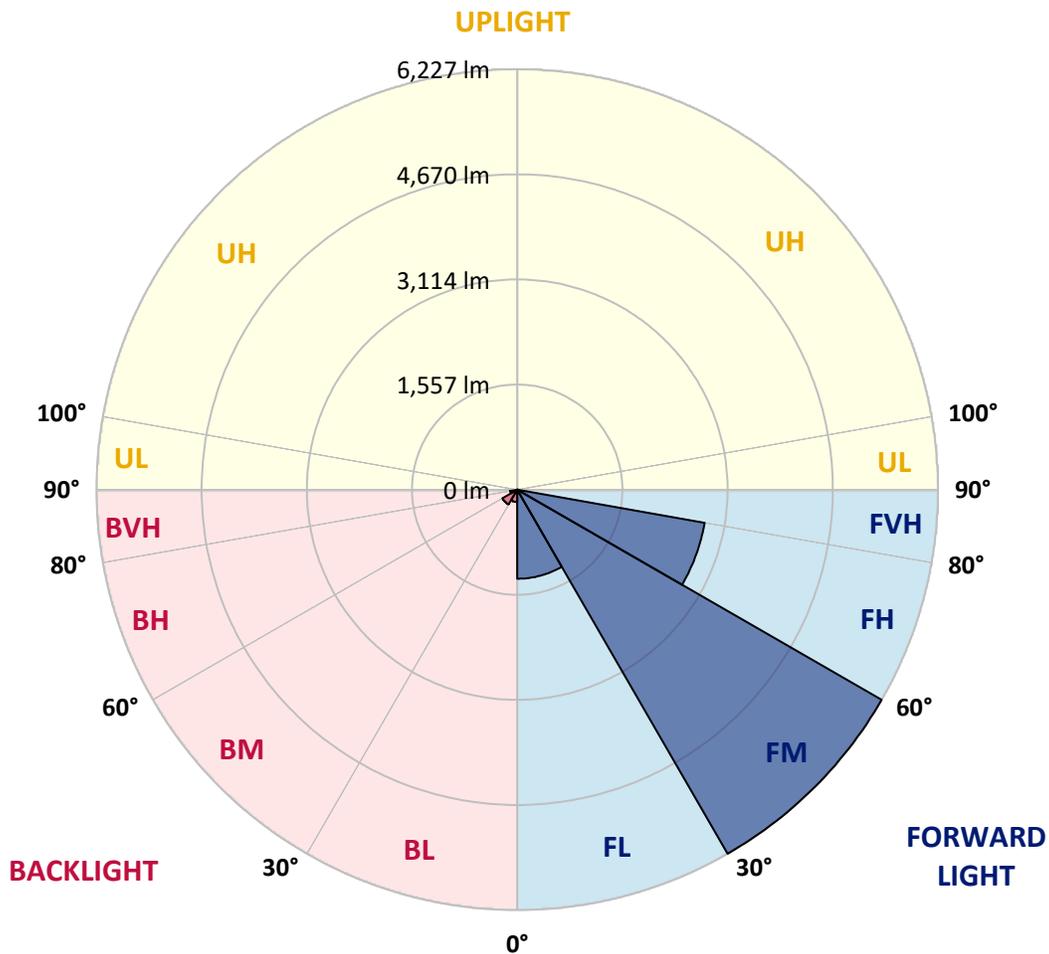
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1319.3	12.1			
FM	(30°-60°)	6227.2	57.0			
FH	(60°-80°)	2817.3	25.8			G2/5000
FVH	(80°-90°)	24.4	0.2			G1/100
BL	(0°-30°)	183.1	1.7	B1/500		
BM	(30°-60°)	254.1	2.3	B1/1000		
BH	(60°-80°)	104.9	1.0	B0/110		G0/110
BVH	(80°-90°)	0.8	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





REPORT NUMBER: P1209485

CATALOG NUMBER: UPW-SA2-130-727-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3
2.5°	1384.2	1353.1	1360.2	1340.1	1303.7	1229.0	1165.3	1105.0	1034.6	1032.2	974.2
5°	1866.5	1840.2	1836.8	1796.1	1730.0	1603.1	1479.5	1338.7	1181.6	1170.1	1047.0
7.5°	2304.3	2283.2	2275.5	2227.2	2104.1	1980.5	1819.6	1612.7	1367.0	1345.9	1145.2
10°	2640.5	2630.4	2632.4	2597.9	2492.5	2377.6	2166.3	1902.4	1577.2	1544.6	1263.0
12.5°	2895.3	2897.7	2914.9	2893.9	2835.0	2749.7	2524.1	2211.4	1810.0	1765.4	1397.6
15°	3082.6	3094.6	3126.2	3152.5	3148.2	3074.4	2867.5	2525.1	2057.1	2007.8	1547.5
17.5°	3203.8	3217.2	3263.2	3321.6	3375.2	3358.0	3199.0	2827.8	2307.1	2250.2	1708.0
20°	3310.1	3325.9	3375.2	3452.3	3552.4	3574.0	3469.6	3121.4	2556.7	2487.2	1873.7
22.5°	3540.5	3540.0	3570.2	3615.2	3710.5	3766.1	3700.0	3393.9	2803.3	2731.0	2042.8
25°	3957.2	3941.4	3930.8	3895.4	3916.5	3950.9	3914.1	3648.7	3051.5	2978.2	2214.2
27.5°	4452.4	4462.0	4376.7	4281.4	4207.7	4172.2	4111.9	3884.8	3290.0	3209.5	2381.9
30°	4975.0	4977.8	4877.2	4755.6	4593.2	4458.6	4354.2	4110.4	3535.2	3447.5	2544.7
32.5°	5446.2	5427.6	5327.9	5162.2	4957.2	4805.9	4588.9	4362.4	3794.8	3710.0	2725.8
35°	5819.8	5797.8	5676.6	5525.8	5313.1	5160.8	4899.8	4613.8	4067.8	3984.9	2907.3
37.5°	6092.8	6067.0	5942.4	5787.3	5603.8	5515.2	5260.4	4887.3	4365.7	4276.6	3098.4
40°	6187.7	6165.2	6087.1	5973.6	5826.1	5805.9	5643.1	5202.0	4690.0	4595.1	3314.9
42.5°	6131.2	6109.1	6081.3	6043.0	5981.7	6000.9	6004.2	5560.7	5050.1	4956.8	3553.9
45°	5907.0	5887.4	5916.1	5972.1	6048.3	6143.1	6333.8	5946.3	5452.5	5352.9	3830.2
47.5°	5577.0	5562.6	5642.1	5782.0	6004.7	6266.2	6635.0	6351.5	5904.1	5811.7	4175.1
50°	5107.6	5105.2	5264.2	5519.5	5862.0	6325.6	6946.3	6812.2	6531.6	6434.3	4654.5
52.5°	4376.7	4381.5	4694.3	5102.8	5611.5	6285.4	7146.6	7404.2	7261.5	7160.4	5069.8
55°	3680.8	3709.5	3931.3	4520.4	5227.4	6135.9	7215.5	7680.6	7664.3	7568.5	5300.6
57.5°	2999.2	3051.5	3265.1	3815.4	4666.5	5791.6	7177.7	7800.3	7964.1	7890.9	5605.3
60°	2260.7	2284.6	2530.8	3045.2	3946.6	5163.2	6903.2	7865.5	8374.1	8323.4	6047.3
62.5°	1438.3	1498.2	1716.6	2212.8	3073.0	4290.5	6440.6	7864.5	8887.1	8914.9	6617.8
65°	757.7	827.6	943.6	1371.3	2111.7	3315.8	5744.6	7790.8	9516.4	9555.2	7063.7
67.5°	408.6	428.7	490.0	711.7	1224.7	2246.3	4722.1	7426.7	9880.9	9932.2	7126.0
70°	298.9	309.9	332.9	393.7	616.4	1304.7	3445.6	6601.5	9411.1	9391.9	6331.4
72.5°	229.4	246.7	263.9	288.3	354.4	696.4	2145.3	5169.4	7509.1	7382.7	4732.6
75°	181.0	183.9	208.3	230.4	265.8	396.6	952.7	3010.7	4583.2	4283.8	2454.2
77.5°	144.6	146.6	160.9	180.1	213.6	260.6	295.0	1184.5	1463.2	1305.6	532.6
80°	85.7	90.5	119.7	138.9	177.2	164.3	107.8	257.2	228.5	206.9	89.6
82.5°	47.9	51.7	67.5	109.7	123.6	78.5	53.6	69.4	53.6	52.2	25.4
85°	0.0	2.4	43.6	68.0	50.3	17.2	22.5	23.0	15.8	14.8	10.1
87.5°	0.0	0.0	13.4	12.9	1.9	2.9	5.3	7.7	6.2	6.2	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1209485

CATALOG NUMBER: UPW-SA2-130-727-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3
2.5°	945.5	919.6	870.7	822.9	782.6	749.6	719.9	707.9	698.3	696.9	689.2
5°	987.6	935.4	842.0	765.4	714.1	677.7	646.6	627.4	612.6	606.8	601.6
7.5°	1051.3	972.3	838.2	750.1	688.7	627.4	570.0	507.7	468.9	454.1	445.4
10°	1128.9	1021.1	852.5	745.7	638.5	509.1	413.8	334.8	302.7	292.2	289.3
12.5°	1219.4	1082.0	877.5	718.9	531.2	361.6	285.5	258.6	251.5	248.1	248.1
15°	1323.4	1148.5	895.2	641.3	392.7	273.5	247.1	234.7	227.0	222.7	223.2
17.5°	1429.7	1213.7	886.6	528.8	289.8	243.3	223.7	210.3	199.7	195.4	194.5
20°	1537.0	1274.0	838.7	393.7	245.2	220.8	198.8	183.9	173.4	169.1	168.1
22.5°	1648.1	1325.3	754.4	288.8	220.3	195.9	174.3	159.5	149.4	145.6	143.7
25°	1756.3	1367.0	636.5	233.7	196.9	172.4	151.8	137.9	128.8	125.0	124.5
27.5°	1857.4	1393.3	500.0	206.4	176.3	151.4	132.7	120.2	112.6	109.7	109.2
30°	1948.4	1395.7	369.8	186.3	158.1	133.2	115.9	104.9	98.2	95.3	94.4
32.5°	2040.4	1375.6	269.2	168.1	141.3	117.3	100.6	92.0	87.2	84.8	84.8
35°	2127.1	1329.1	209.8	152.3	125.0	102.0	88.6	82.4	79.5	77.1	77.1
37.5°	2211.8	1262.5	178.2	138.4	109.7	89.1	78.1	74.2	71.8	69.4	69.4
40°	2298.0	1178.7	161.9	125.5	97.2	79.0	69.4	66.1	63.7	61.8	61.3
42.5°	2403.9	1082.0	151.4	113.5	86.2	69.9	61.3	57.5	55.6	53.6	52.7
45°	2526.5	998.6	142.7	101.5	77.1	62.3	53.2	49.3	46.5	44.1	43.6
47.5°	2703.2	938.3	131.2	88.6	68.5	54.1	46.0	41.7	37.4	35.0	34.5
50°	2928.8	888.5	116.4	77.1	59.9	46.0	38.3	33.0	29.2	26.8	26.8
52.5°	3040.9	823.3	103.0	67.1	50.3	38.8	31.1	24.9	23.0	20.6	20.6
55°	3085.9	773.5	89.6	57.0	41.7	32.1	24.4	19.2	17.7	16.3	15.8
57.5°	3212.4	759.2	78.1	48.4	34.5	25.4	18.7	14.4	13.4	11.5	11.5
60°	3415.9	766.3	67.5	41.2	27.8	19.6	13.9	11.0	10.1	8.1	8.1
62.5°	3635.8	757.2	57.0	35.4	21.6	14.4	9.6	8.1	8.1	4.8	4.3
65°	3677.9	674.4	48.9	29.2	16.8	10.5	6.2	5.3	7.2	1.0	0.0
67.5°	3413.5	523.0	42.1	22.5	12.5	8.1	4.8	2.4	6.2	0.0	0.0
70°	2729.6	332.4	34.0	16.3	9.6	6.7	3.8	1.0	4.8	0.0	0.0
72.5°	1930.2	193.0	26.8	11.5	8.1	5.3	2.9	0.0	2.9	0.0	0.0
75°	976.1	103.0	16.8	8.6	6.2	3.8	1.9	0.0	0.5	0.0	0.0
77.5°	211.2	47.9	10.5	6.2	4.3	2.4	1.0	0.0	0.0	0.0	0.0
80°	46.0	21.1	6.7	3.8	2.4	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	16.8	11.0	3.4	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.1	5.7	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	1.9	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)