

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: P1209027

Luminaire Tested: UPW-SA2-090-730-U-T2R

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-730-U-T2R
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11315 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - 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

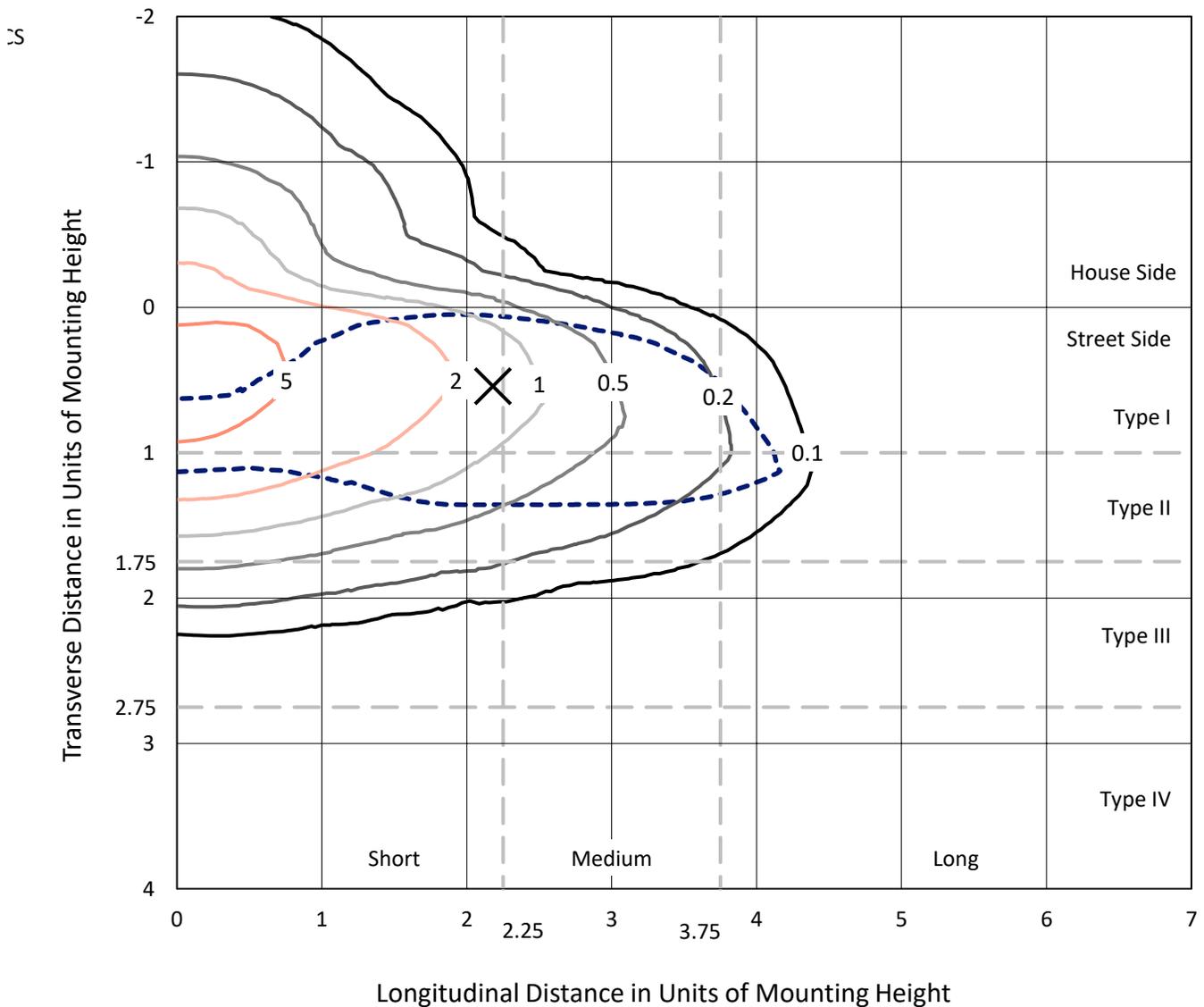


REPORT NUMBER: P1209027

CATALOG NUMBER: UPW-SA2-090-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

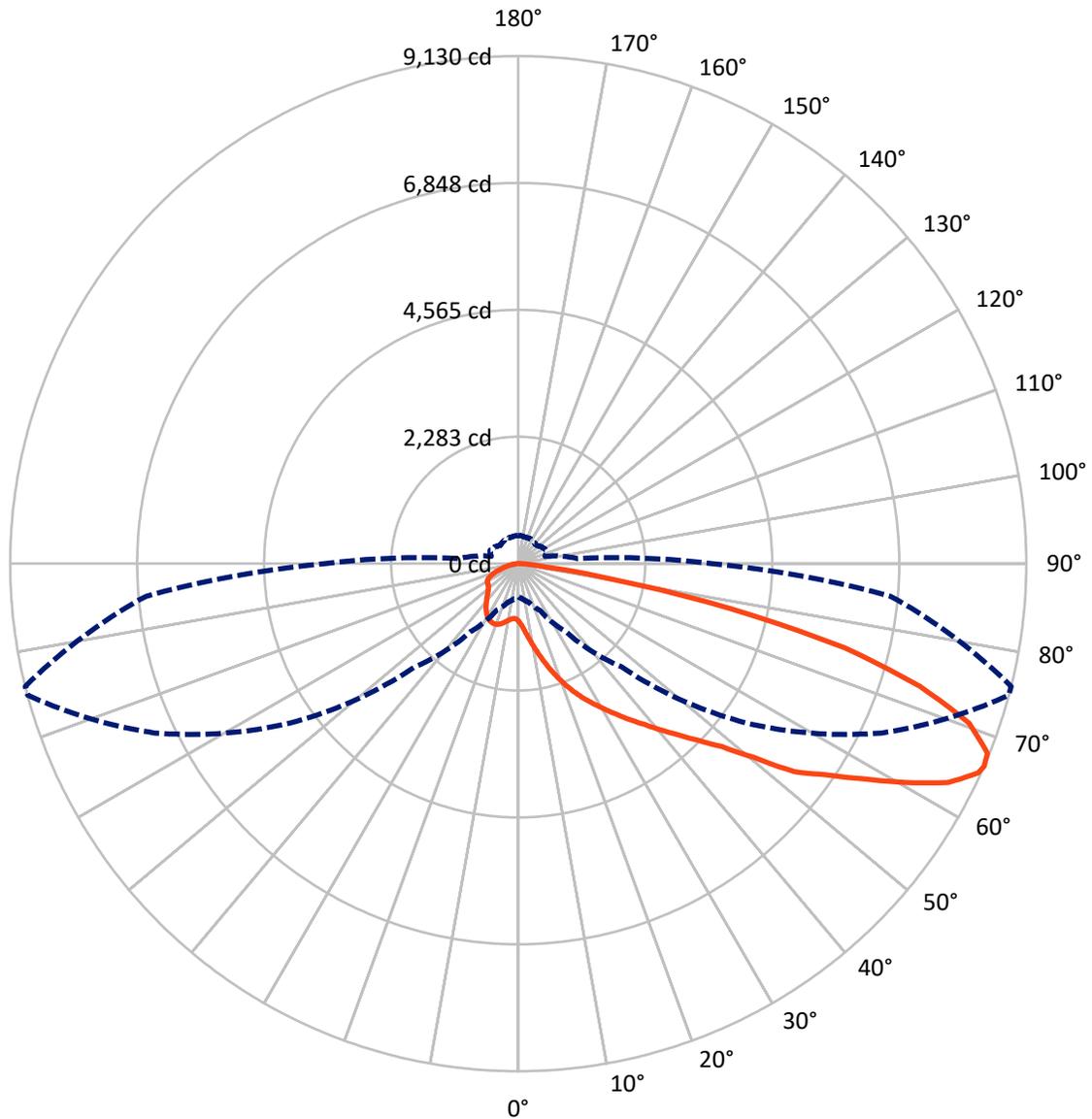
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

REPORT NUMBER: P1209027
CATALOG NUMBER: UPW-SA2-090-730-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P1209027

CATALOG NUMBER: UPW-SA2-090-730-U-T2R

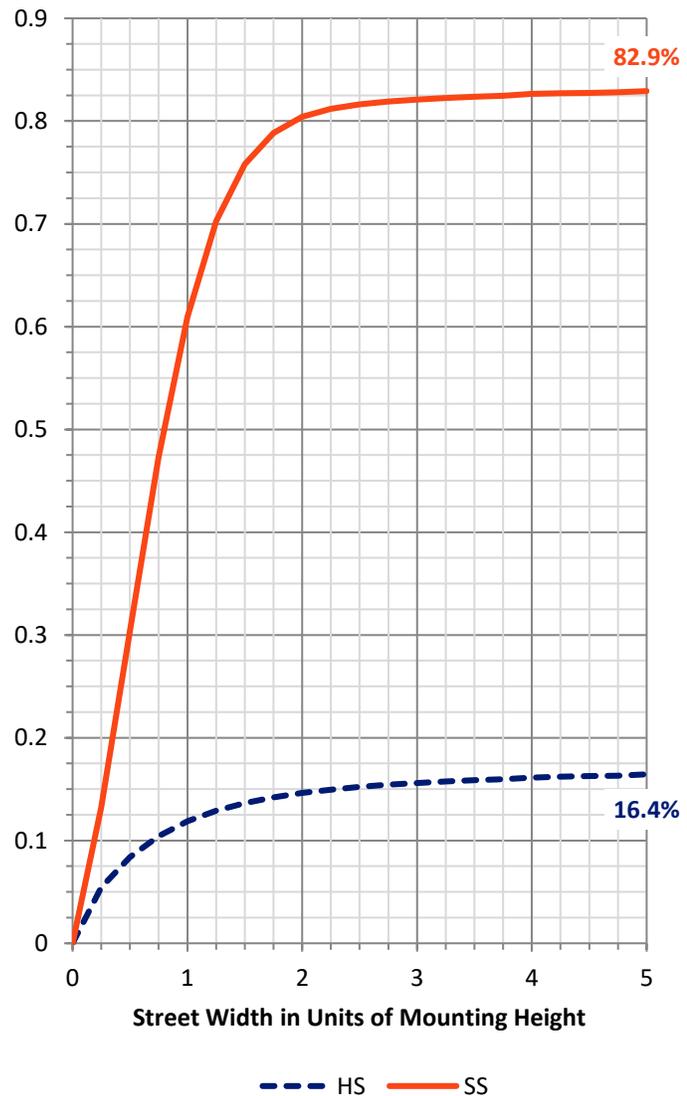
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1903.9	0.0	1903.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	9411.1	0.0	9411.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	11315.0	0.0	11315.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	1.1
10°-20°	493.4	4.4
20°-30°	958.9	8.5
30°-40°	1565.1	13.8
40°-50°	2138.3	18.9
50°-60°	2490.7	22.0
60°-70°	2233.0	19.7
70°-80°	1128.4	10.0
80°-90°	182.2	1.6
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°	11315.0	100.0
0°-180°	11315.0	100.0



REPORT NUMBER: P1209027

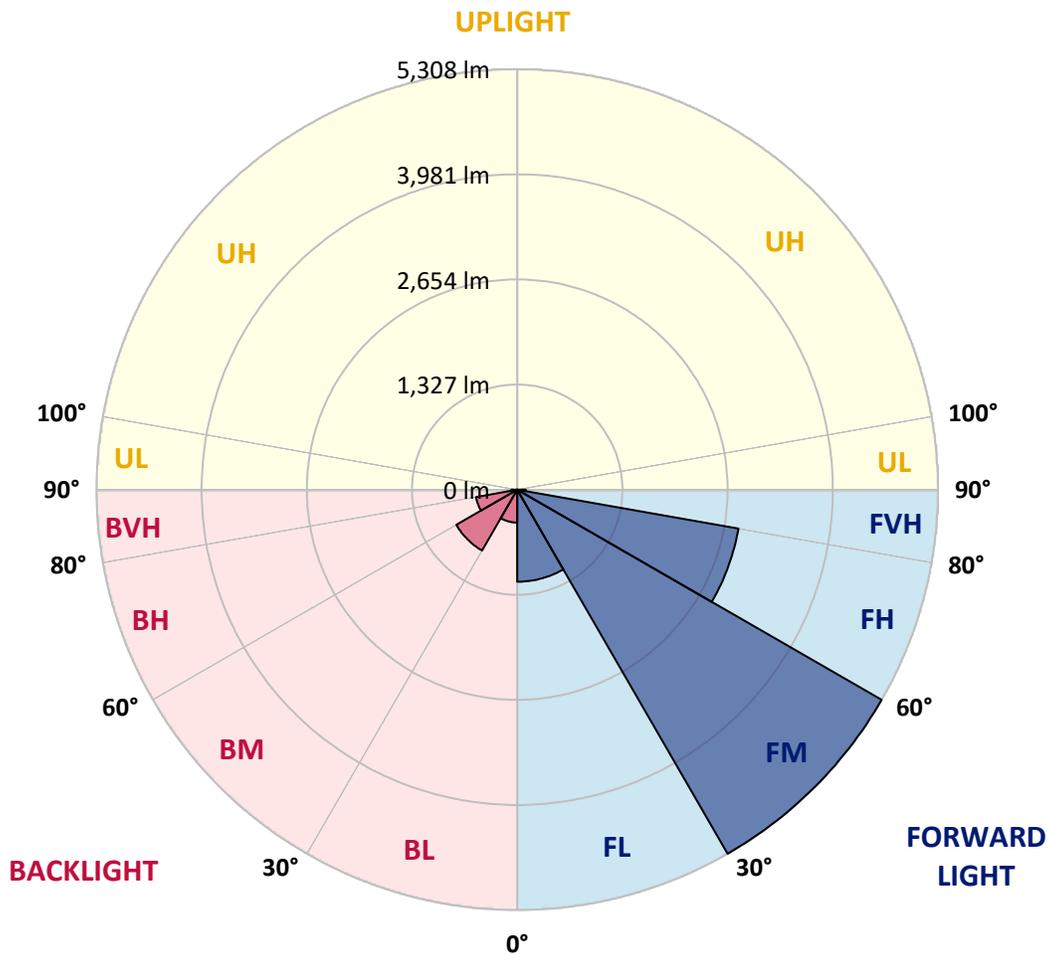
CATALOG NUMBER: UPW-SA2-090-730-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1162.0	10.3			
FM	(30°-60°)	5307.5	46.9			
FH	(60°-80°)	2833.9	25.0			G2/5000
FVH	(80°-90°)	107.6	1.0			G2/225
BL	(0°-30°)	415.3	3.7	B1/500		
BM	(30°-60°)	886.6	7.8	B1/1000		
BH	(60°-80°)	527.5	4.7	B2/1000		G2/1000
BVH	(80°-90°)	74.6	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P1209027

CATALOG NUMBER: UPW-SA2-090-730-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3
2.5°	1371.7	1351.0	1349.1	1318.7	1311.8	1253.8	1211.2	1166.6	1115.9	1105.9	1066.0
5°	1762.0	1760.1	1733.6	1684.0	1645.2	1546.1	1448.2	1344.5	1230.8	1212.3	1122.4
7.5°	2113.1	2110.0	2089.7	2036.3	1980.2	1858.4	1718.6	1559.6	1375.2	1347.9	1198.9
10°	2379.7	2378.5	2371.6	2332.4	2284.8	2168.0	2013.6	1796.6	1543.1	1505.8	1294.5
12.5°	2585.6	2587.9	2592.5	2578.7	2556.0	2456.5	2298.3	2047.8	1722.1	1685.2	1400.9
15°	2725.0	2731.9	2755.8	2775.4	2787.3	2726.2	2572.9	2304.8	1922.6	1878.4	1518.9
17.5°	2795.3	2803.0	2844.1	2903.3	2957.8	2951.7	2829.9	2549.9	2115.0	2072.4	1645.6
20°	2856.0	2861.8	2907.9	2978.9	3075.4	3118.0	3049.6	2785.7	2325.9	2275.2	1780.1
22.5°	3032.0	3039.3	3053.1	3093.4	3178.7	3257.1	3224.0	3008.9	2519.1	2471.9	1907.6
25°	3371.5	3380.4	3350.4	3316.2	3332.3	3386.9	3393.0	3212.5	2715.0	2661.6	2044.7
27.5°	3780.6	3793.3	3742.2	3654.2	3577.4	3556.3	3549.0	3379.2	2902.1	2840.3	2180.3
30°	4181.3	4203.2	4136.7	4022.6	3881.7	3782.5	3709.2	3542.5	3086.5	3027.3	2308.2
32.5°	4572.7	4563.9	4467.5	4356.1	4190.9	4066.8	3889.3	3717.6	3293.9	3225.9	2435.4
35°	4840.8	4843.9	4754.4	4622.3	4464.8	4369.5	4130.6	3906.6	3505.6	3443.0	2579.8
37.5°	5069.0	5054.8	4953.4	4830.1	4694.5	4653.8	4412.9	4114.8	3734.9	3666.5	2733.5
40°	5145.1	5128.5	5062.1	4973.4	4864.6	4861.2	4724.4	4350.7	3994.2	3926.6	2906.7
42.5°	5099.0	5077.8	5050.6	5026.4	4992.9	5008.3	5017.1	4627.3	4279.2	4203.6	3107.2
45°	4928.8	4896.9	4916.1	4968.7	5041.3	5128.2	5281.4	4933.4	4598.4	4535.1	3342.7
47.5°	4667.2	4638.4	4698.3	4810.9	5008.3	5228.0	5531.5	5271.4	4979.5	4916.5	3678.1
50°	4299.2	4307.7	4393.3	4598.1	4896.5	5274.1	5839.6	5719.0	5533.4	5474.6	4135.6
52.5°	3695.3	3696.9	3938.1	4274.2	4698.3	5250.3	6010.5	6290.9	6289.8	6218.7	4571.2
55°	3134.5	3168.7	3359.6	3806.4	4377.2	5155.0	6130.0	6569.0	6786.5	6703.1	4977.2
57.5°	2586.7	2606.7	2787.6	3236.3	3918.9	4901.1	6252.5	6902.8	7358.8	7306.2	5481.9
60°	1963.7	1994.4	2181.5	2596.0	3332.7	4450.6	6264.0	7251.3	8043.0	7989.9	6045.5
62.5°	1274.5	1327.6	1502.7	1891.1	2623.6	3802.5	5996.7	7479.0	8691.4	8672.5	6545.6
65°	732.5	772.5	894.3	1193.9	1810.0	2988.9	5360.9	7391.5	9090.5	9079.7	6732.7
66°	598.5	623.4	716.8	933.1	1493.5	2624.8	4991.4	7206.7	9130.0	9130.4	6711.2
67.5°	478.6	489.8	531.6	668.0	1102.1	2080.5	4331.1	6799.1	9080.9	9094.3	6572.5
70°	396.0	401.8	414.9	447.9	601.6	1254.6	3074.2	5740.1	8587.3	8597.6	6031.3
72.5°	355.3	358.8	363.8	368.4	424.5	701.0	1877.6	4591.9	7529.0	7542.4	5206.5
75°	321.9	323.8	323.1	323.4	356.1	446.7	970.3	3428.4	6087.7	6060.8	3988.4
77.5°	282.7	284.6	280.8	281.6	315.0	343.4	482.9	2400.1	4108.3	3918.5	2247.2
80°	238.9	240.5	238.9	241.6	274.3	259.3	280.8	1350.2	1816.6	1718.2	799.0
82.5°	180.5	187.1	191.7	202.4	225.9	184.4	187.8	525.9	553.1	526.6	245.1
85°	79.1	96.4	144.4	154.8	169.8	110.6	123.3	214.3	225.1	218.2	89.1
87.5°	20.7	22.7	71.4	89.9	94.1	49.9	64.2	97.6	102.9	97.6	29.6
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: P1209027

CATALOG NUMBER: UPW-SA2-090-730-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3
2.5°	1044.8	1026.0	992.2	962.3	939.6	924.2	908.9	901.2	896.6	892.0	892.7
5°	1078.3	1040.2	982.2	941.1	918.1	903.5	895.8	892.7	890.8	886.2	886.2
7.5°	1128.6	1074.8	994.9	952.6	934.6	923.5	918.8	917.3	915.0	909.6	910.4
10°	1192.0	1116.7	1021.4	980.3	963.8	951.5	945.0	942.7	938.4	932.3	933.1
12.5°	1266.5	1168.5	1056.4	1013.3	993.4	976.8	966.1	959.6	952.3	944.2	944.6
15°	1347.9	1225.0	1094.0	1042.9	1015.6	992.6	975.3	964.2	952.6	942.7	942.3
17.5°	1430.5	1279.5	1122.8	1059.1	1022.2	991.8	968.4	951.1	936.9	924.6	923.5
20°	1519.6	1328.7	1139.0	1057.5	1009.9	973.8	942.7	921.1	905.4	893.1	891.2
22.5°	1610.3	1374.8	1141.6	1041.8	982.6	938.4	905.8	882.0	865.8	853.2	848.5
25°	1693.3	1410.5	1130.5	1011.4	944.6	896.9	865.1	840.9	827.8	812.8	808.2
27.5°	1768.9	1435.5	1108.2	972.6	901.9	855.1	825.1	804.4	790.2	778.6	774.8
30°	1836.9	1448.9	1071.7	926.5	858.2	815.5	790.2	775.9	763.7	749.1	746.4
32.5°	1901.5	1448.9	1024.9	876.2	814.7	780.6	765.6	756.7	742.9	728.7	724.9
35°	1966.0	1440.1	969.5	823.6	774.8	755.6	754.8	744.4	723.3	704.1	699.1
37.5°	2034.0	1422.1	907.3	774.4	742.1	744.4	751.0	727.9	698.0	670.7	663.4
40°	2110.8	1397.1	842.8	731.8	714.9	739.5	740.6	704.1	645.7	620.8	614.2
42.5°	2201.1	1372.1	782.9	694.1	693.4	724.5	721.0	652.6	617.7	605.0	601.6
45°	2319.8	1357.9	726.0	658.4	676.5	700.3	687.6	624.2	609.6	602.3	599.2
47.5°	2506.8	1365.2	673.8	630.0	659.6	676.1	625.4	612.7	602.3	593.5	590.4
50°	2741.2	1361.0	631.5	610.4	640.3	650.7	597.3	597.7	592.3	582.3	577.7
52.5°	2917.5	1327.9	604.2	599.2	623.4	605.8	579.7	583.1	580.4	565.8	560.8
55°	3087.7	1299.5	590.4	595.0	611.2	549.7	558.9	567.4	564.7	550.5	548.2
57.5°	3299.3	1294.1	582.0	596.2	600.8	521.7	538.9	550.1	548.2	542.0	540.9
60°	3558.6	1295.7	574.3	598.1	589.3	500.9	520.1	534.3	535.5	534.3	533.6
62.5°	3701.1	1253.8	555.1	592.7	568.9	482.9	500.5	521.3	521.7	524.0	523.6
65°	3580.1	1128.6	519.3	573.9	534.7	467.9	483.6	506.3	500.5	510.9	510.9
66°	3462.6	1056.4	501.7	561.6	520.1	462.1	478.2	498.6	491.3	505.5	505.5
67.5°	3222.5	934.6	469.8	535.5	499.4	454.0	472.1	485.9	475.9	497.1	495.5
70°	2783.8	722.9	405.6	476.3	465.2	442.1	463.6	460.6	446.0	478.2	472.1
72.5°	2347.0	549.3	325.7	398.7	413.3	427.2	451.7	428.3	409.9	432.5	419.1
75°	1821.2	412.9	257.4	310.0	349.2	403.7	437.5	391.0	364.5	362.2	354.9
77.5°	984.5	283.5	204.0	236.6	277.3	374.5	427.9	351.1	311.1	301.9	296.2
80°	389.9	184.4	148.3	179.4	194.0	332.3	404.9	304.6	256.6	247.4	238.5
82.5°	161.0	109.1	95.6	120.2	126.4	284.3	363.4	249.7	198.2	274.3	291.2
85°	69.1	59.9	56.9	62.2	71.4	199.4	289.3	190.5	214.0	190.9	151.7
87.5°	20.7	25.4	24.2	23.8	26.1	47.6	154.0	106.0	157.1	59.5	44.6
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)