

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: P1209243

Luminaire Tested: UPW-SA2-110-727-U-T2R

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-110-727-U-T2R
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12861 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

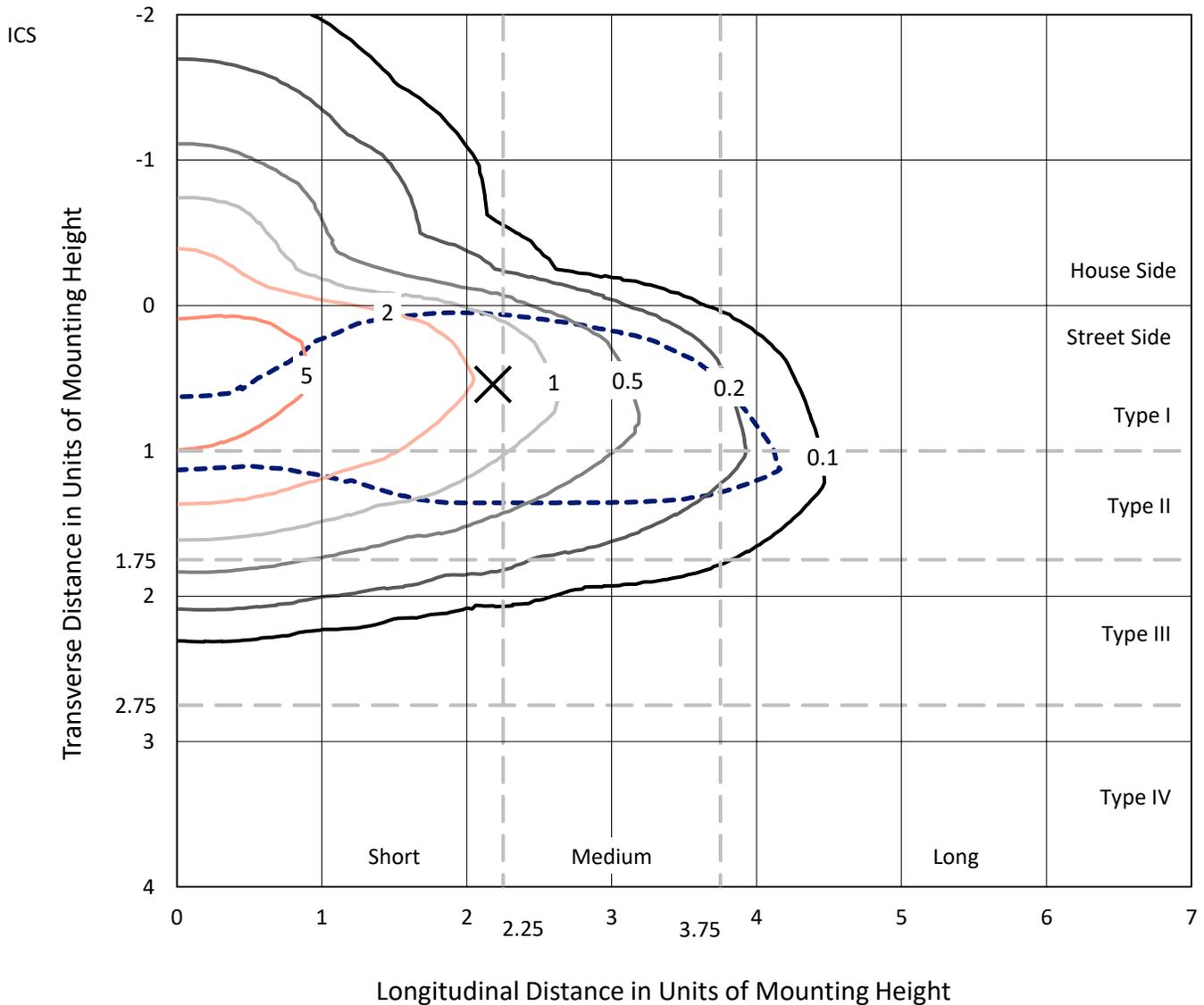
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

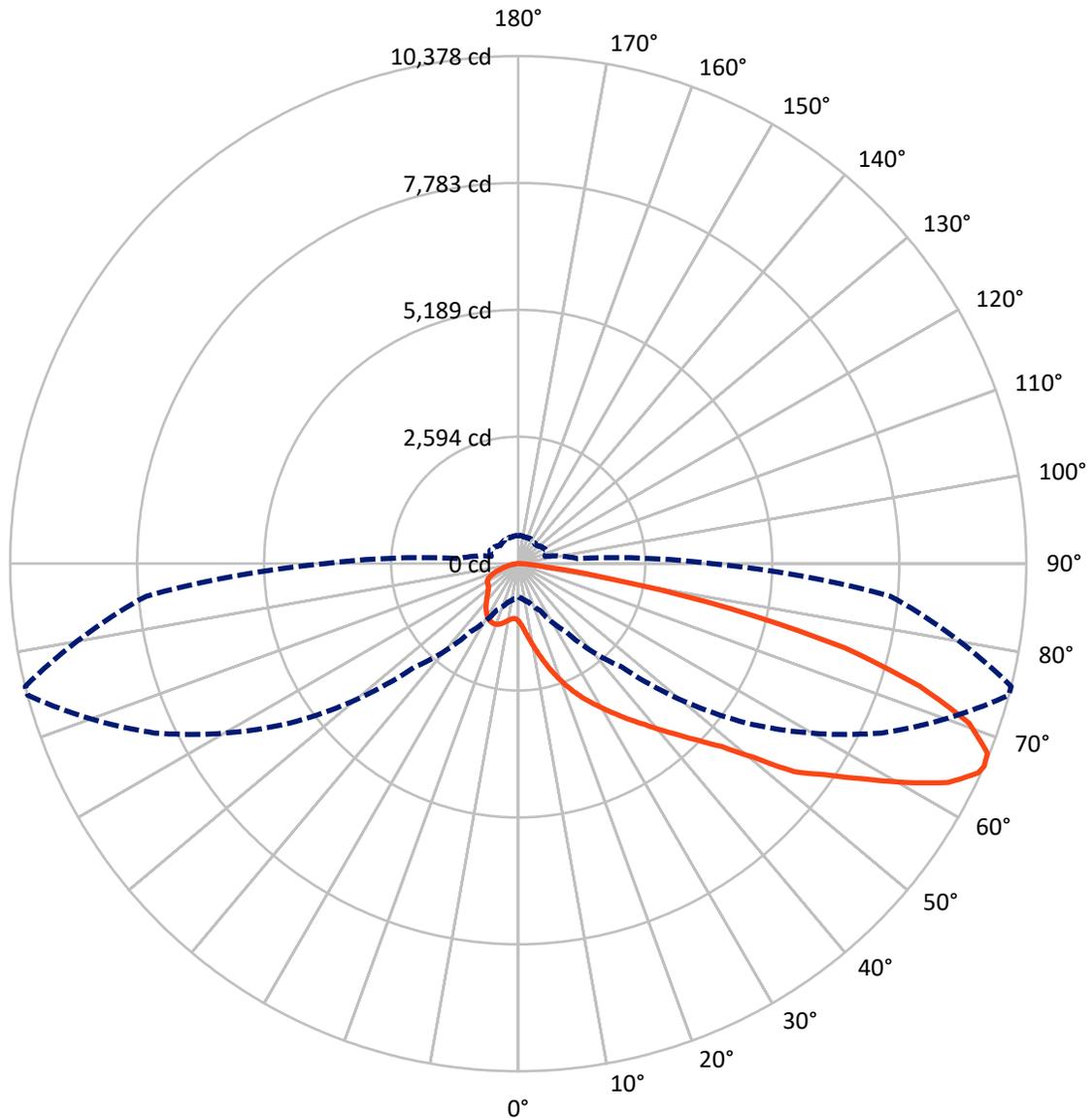
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2164.1	0.0	2164.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	10696.9	0.0	10696.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	12861.0	0.0	12861.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.0	1.1
10°-20°	560.9	4.4
20°-30°	1089.9	8.5
30°-40°	1778.9	13.8
40°-50°	2430.5	18.9
50°-60°	2831.0	22.0
60°-70°	2538.0	19.7
70°-80°	1282.6	10.0
80°-90°	207.1	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°	12861.0	100.0
0°-180°	12861.0	100.0

Coefficient of Utilization



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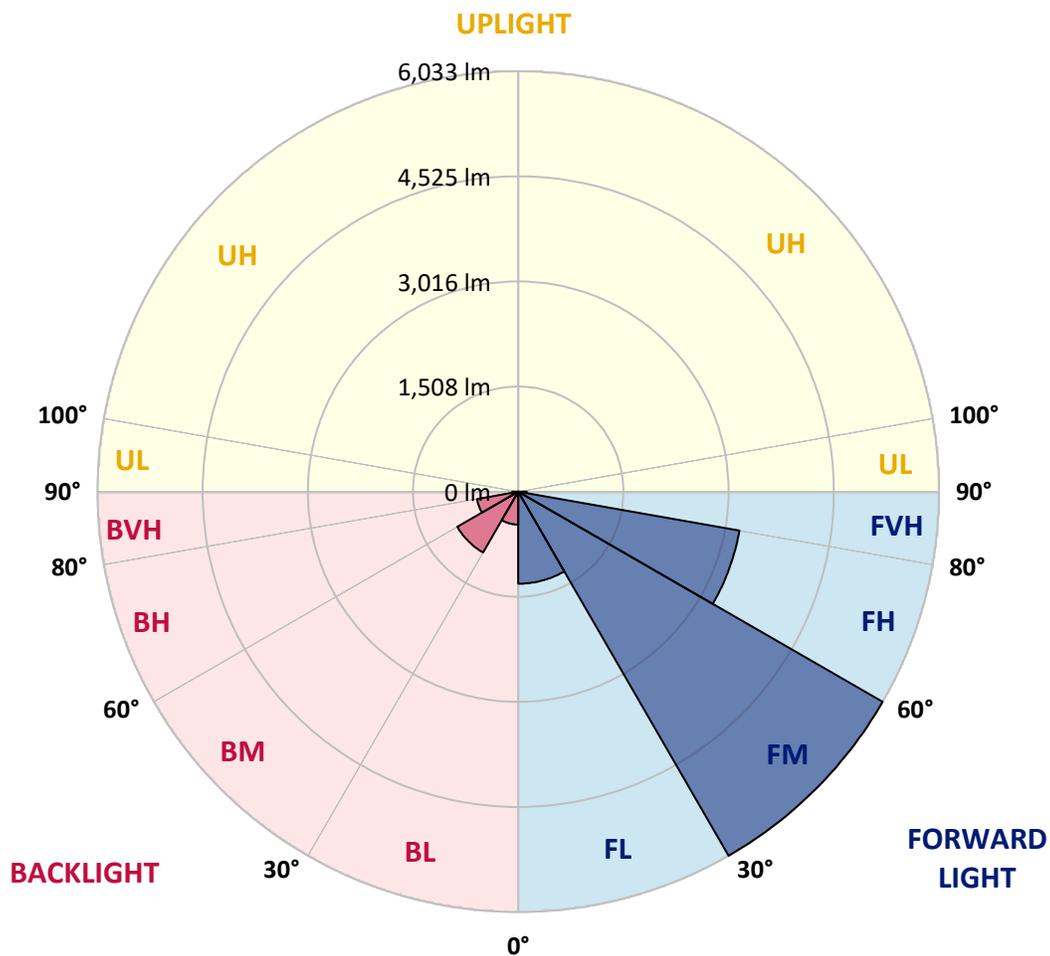
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1320.8	10.3			
FM (30°-60°)	6032.7	46.9			
FH (60°-80°)	3221.1	25.0			G2/5000
FVH (80°-90°)	122.3	1.0			G2/225
BL (0°-30°)	472.0	3.7	B1/500		
BM (30°-60°)	1007.7	7.8	B2/2500		
BH (60°-80°)	599.5	4.7	B2/1000		G2/1000
BVH (80°-90°)	84.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1174.5	1174.5	1174.5	1174.5	1174.5	1174.5	1174.5	1174.5	1174.5	1174.5	1174.5
2.5°	1559.2	1535.6	1533.4	1498.9	1491.0	1425.1	1376.7	1326.0	1268.4	1257.0	1211.6
5°	2002.8	2000.6	1970.5	1914.1	1870.0	1757.4	1646.0	1528.2	1398.9	1378.0	1275.8
7.5°	2401.8	2398.3	2375.2	2314.5	2250.8	2112.4	1953.4	1772.7	1563.1	1532.1	1362.7
10°	2704.8	2703.5	2695.7	2651.1	2597.0	2464.3	2288.7	2042.1	1753.9	1711.5	1471.4
12.5°	2938.9	2941.5	2946.7	2931.0	2905.2	2792.2	2612.3	2327.6	1957.4	1915.4	1592.3
15°	3097.4	3105.2	3132.3	3154.6	3168.1	3098.7	2924.5	2619.7	2185.3	2135.1	1726.4
17.5°	3177.3	3186.0	3232.7	3300.0	3361.9	3355.0	3216.6	2898.3	2404.0	2355.5	1870.5
20°	3246.2	3252.8	3305.2	3386.0	3495.6	3544.0	3466.3	3166.3	2643.7	2586.1	2023.3
22.5°	3446.2	3454.5	3470.2	3516.1	3613.0	3702.1	3664.5	3420.0	2863.3	2809.6	2168.2
25°	3832.2	3842.2	3808.2	3769.3	3787.7	3849.7	3856.6	3651.4	3086.0	3025.3	2324.1
27.5°	4297.2	4311.6	4253.5	4153.5	4066.2	4042.2	4033.9	3840.9	3298.6	3228.3	2478.2
30°	4752.6	4777.5	4701.9	4572.3	4412.0	4299.4	4216.0	4026.5	3508.2	3441.0	2623.6
32.5°	5197.5	5187.4	5077.9	4951.2	4763.5	4622.5	4420.7	4225.6	3744.0	3666.7	2768.2
35°	5502.2	5505.7	5404.0	5253.8	5074.8	4966.5	4694.9	4440.4	3984.6	3913.4	2932.3
37.5°	5761.6	5745.4	5630.2	5490.0	5335.9	5289.6	5015.9	4677.0	4245.2	4167.5	3107.0
40°	5848.0	5829.3	5753.7	5652.9	5529.3	5525.4	5370.0	4945.1	4539.9	4463.1	3303.9
42.5°	5795.7	5771.6	5740.6	5713.1	5675.1	5692.6	5702.7	5259.5	4863.9	4777.9	3531.8
45°	5602.2	5566.0	5587.8	5647.6	5730.2	5828.8	6003.0	5607.5	5226.7	5154.7	3799.4
47.5°	5304.9	5272.1	5340.3	5468.2	5692.6	5942.4	6287.3	5991.7	5659.9	5588.3	4180.6
50°	4886.6	4896.2	4993.6	5226.3	5565.6	5994.7	6637.4	6500.4	6289.5	6222.7	4700.6
52.5°	4200.3	4202.0	4476.2	4858.2	5340.3	5967.7	6831.7	7150.5	7149.2	7068.4	5195.7
55°	3562.8	3601.7	3818.7	4326.4	4975.2	5859.4	6967.5	7466.6	7713.7	7619.0	5657.2
57.5°	2940.2	2962.9	3168.5	3678.5	4454.4	5570.8	7106.8	7846.0	8364.3	8304.5	6231.0
60°	2232.0	2266.9	2479.5	2950.7	3788.1	5058.6	7119.9	8242.0	9141.9	9081.6	6871.5
62.5°	1448.7	1508.9	1708.0	2149.5	2982.1	4322.1	6816.0	8500.9	9878.9	9857.5	7440.0
65°	832.6	878.0	1016.4	1357.0	2057.3	3397.3	6093.4	8401.4	10332.5	10320.3	7652.6
66°	680.2	708.6	814.7	1060.5	1697.6	2983.4	5673.4	8191.4	10377.5	10377.9	7628.1
67.5°	544.0	556.7	604.3	759.3	1252.7	2364.7	4922.9	7728.1	10321.6	10336.9	7470.5
70°	450.2	456.7	471.5	509.1	683.7	1426.0	3494.2	6524.4	9760.6	9772.4	6855.3
72.5°	403.9	407.8	413.5	418.7	482.5	796.8	2134.2	5219.3	8557.7	8573.0	5917.9
75°	365.9	368.1	367.2	367.6	404.7	507.8	1102.9	3896.8	6919.5	6888.9	4533.4
77.5°	321.4	323.5	319.2	320.0	358.0	390.3	548.8	2728.0	4669.6	4453.9	2554.2
80°	271.6	273.3	271.6	274.6	311.7	294.7	319.2	1534.7	2064.8	1953.0	908.2
82.5°	205.2	212.6	217.9	230.1	256.7	209.6	213.5	597.7	628.7	598.6	278.6
85°	89.9	109.6	164.2	176.0	193.0	125.7	140.2	243.6	255.9	248.0	101.3
87.5°	23.6	25.8	81.2	102.2	107.0	56.8	72.9	110.9	117.0	110.9	33.6
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°	1174.5	1174.5	1174.5	1174.5	1174.5	1174.5	1174.5	1174.5	1174.5	1174.5	1174.5
2.5°	1187.6	1166.2	1127.8	1093.7	1068.0	1050.5	1033.0	1024.3	1019.1	1013.8	1014.7
5°	1225.6	1182.4	1116.4	1069.7	1043.5	1026.9	1018.2	1014.7	1012.5	1007.3	1007.3
7.5°	1282.8	1221.7	1130.8	1082.8	1062.3	1049.6	1044.4	1042.6	1040.0	1033.9	1034.8
10°	1354.8	1269.2	1161.0	1114.2	1095.5	1081.5	1074.1	1071.5	1066.7	1059.7	1060.5
12.5°	1439.5	1328.2	1200.7	1151.8	1129.1	1110.3	1098.1	1090.7	1082.4	1073.2	1073.6
15°	1532.1	1392.4	1243.5	1185.4	1154.4	1128.2	1108.6	1095.9	1082.8	1071.5	1071.0
17.5°	1626.0	1454.4	1276.2	1203.8	1161.8	1127.3	1100.7	1081.1	1064.9	1050.9	1049.6
20°	1727.3	1510.3	1294.6	1202.0	1147.9	1106.8	1071.5	1047.0	1029.1	1015.1	1013.0
22.5°	1830.3	1562.7	1297.6	1184.1	1116.9	1066.7	1029.5	1002.5	984.1	969.7	964.5
25°	1924.6	1603.3	1285.0	1149.6	1073.6	1019.5	983.3	955.8	940.9	923.9	918.6
27.5°	2010.6	1631.6	1259.6	1105.5	1025.2	971.9	937.9	914.3	898.1	885.0	880.7
30°	2087.9	1646.9	1218.2	1053.1	975.4	926.9	898.1	882.0	868.0	851.4	848.3
32.5°	2161.3	1646.9	1164.9	995.9	926.1	887.2	870.2	860.1	844.4	828.3	823.9
35°	2234.6	1636.9	1102.0	936.1	880.7	858.8	858.0	846.2	822.1	800.3	794.6
37.5°	2311.9	1616.4	1031.3	880.2	843.5	846.2	853.6	827.4	793.3	762.3	754.0
40°	2399.2	1588.0	957.9	831.8	812.5	840.5	841.8	800.3	734.0	705.6	698.2
42.5°	2501.8	1559.6	889.8	789.0	788.1	823.5	819.5	741.8	702.1	687.7	683.7
45°	2636.7	1543.4	825.2	748.4	768.9	796.0	781.5	709.5	692.9	684.6	681.1
47.5°	2849.4	1551.7	765.8	716.1	749.7	768.4	710.8	696.4	684.6	674.6	671.1
50°	3115.7	1546.9	717.8	693.8	727.8	739.6	678.9	679.4	673.3	661.9	656.7
52.5°	3316.1	1509.4	686.8	681.1	708.6	688.5	658.9	662.8	659.7	643.1	637.5
55°	3509.5	1477.1	671.1	676.3	694.7	624.8	635.3	644.9	641.8	625.7	623.1
57.5°	3750.1	1471.0	661.5	677.6	682.9	592.9	612.6	625.2	623.1	616.1	614.8
60°	4044.8	1472.7	652.7	679.8	669.8	569.3	591.2	607.3	608.6	607.3	606.5
62.5°	4206.8	1425.1	630.9	673.7	646.6	548.8	568.9	592.5	592.9	595.5	595.1
65°	4069.3	1282.8	590.3	652.3	607.8	531.8	549.7	575.5	568.9	580.7	580.7
66°	3935.7	1200.7	570.2	638.3	591.2	525.3	543.6	566.7	558.4	574.6	574.6
67.5°	3662.8	1062.3	534.0	608.6	567.6	516.1	536.6	552.3	541.0	565.0	563.2
70°	3164.2	821.7	461.1	541.4	528.7	502.5	527.0	523.5	506.9	543.6	536.6
72.5°	2667.7	624.4	370.3	453.2	469.8	485.5	513.5	486.8	465.9	491.6	476.3
75°	2070.0	469.4	292.5	352.3	396.9	458.9	497.3	444.5	414.3	411.7	403.4
77.5°	1119.0	322.2	231.8	269.0	315.2	425.7	486.4	399.1	353.7	343.2	336.6
80°	443.2	209.6	168.5	203.9	220.5	377.7	460.2	346.2	291.7	281.2	271.1
82.5°	182.9	124.0	108.7	136.7	143.6	323.1	413.0	283.8	225.3	311.7	331.0
85°	78.6	68.1	64.6	70.7	81.2	226.6	328.8	216.6	243.2	217.0	172.5
87.5°	23.6	28.8	27.5	27.1	29.7	54.1	175.1	120.5	178.6	67.7	50.6
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)