

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: P1209108

Luminaire Tested: UPW-SA2-090-750-U-T2R

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209108  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-090-750-U-T2R  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 5000K, 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: 12424 lumens  
Efficiency: N/A  
Efficacy: 144.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

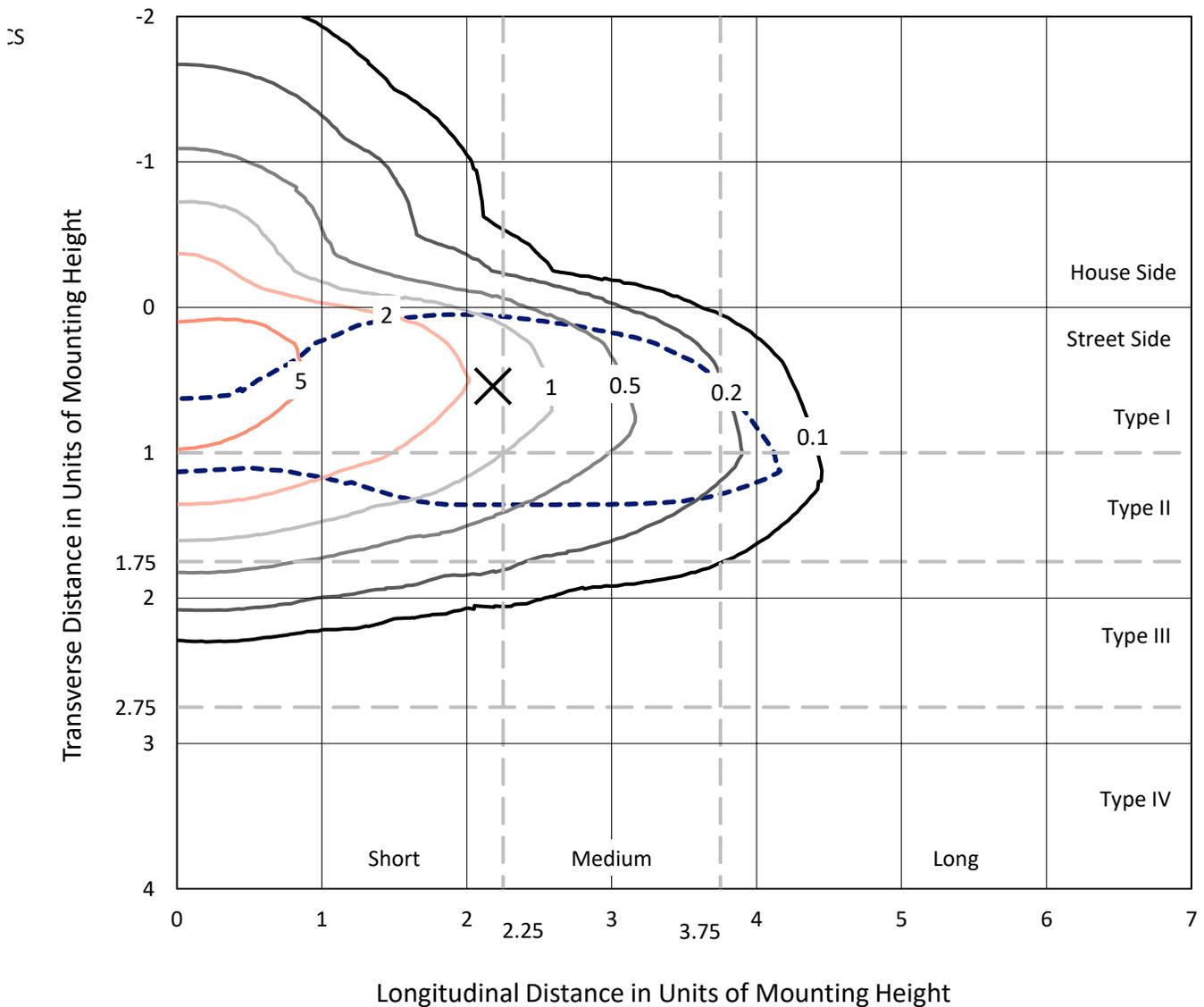
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

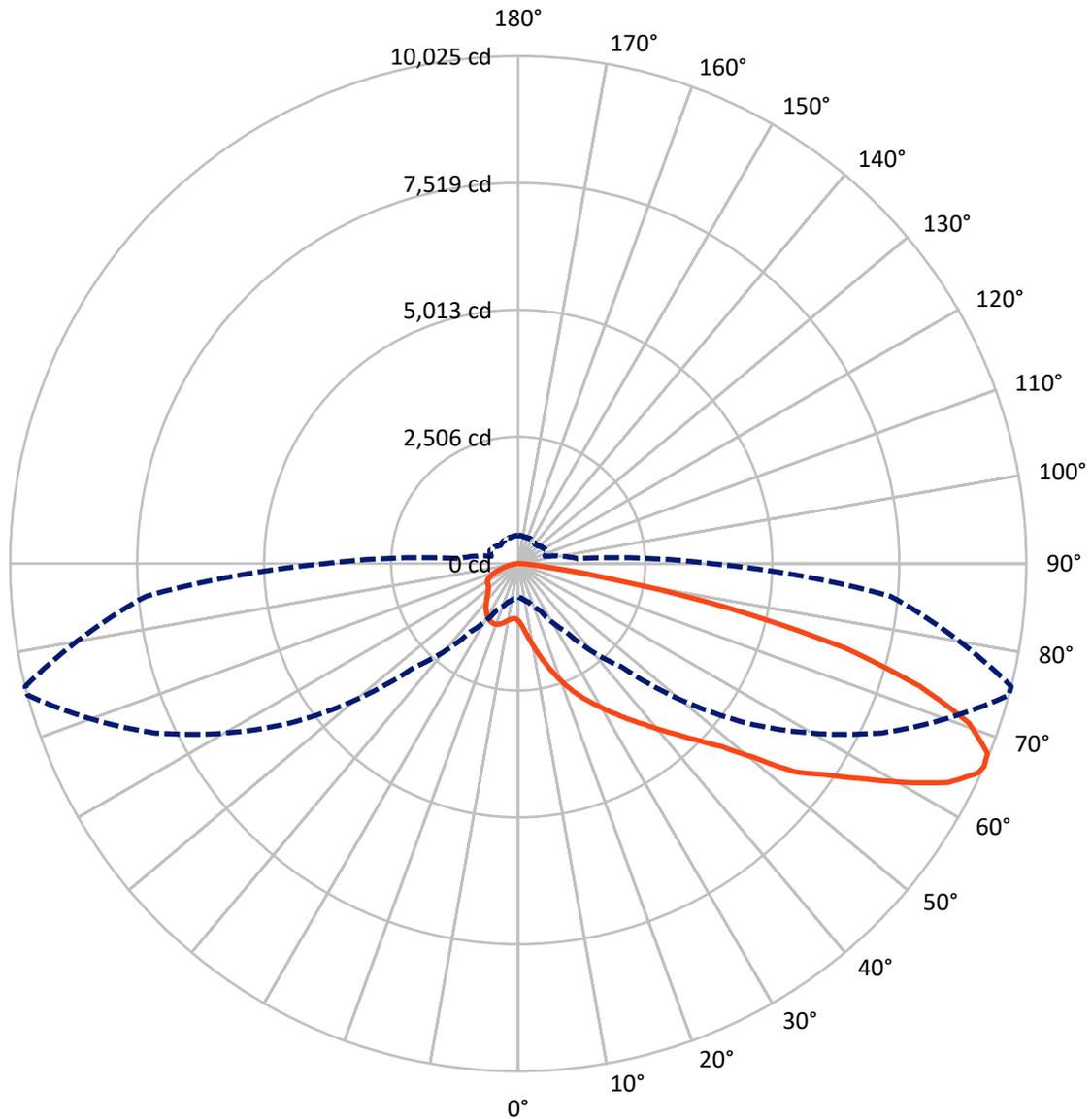


Based on 20 foot mounting height. Maximum calculated value = 7.5 fc  
 Type II - Short - N/A

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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
<b>House Side</b>	Lumens	2090.5	0.0	2090.5
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	10333.5	0.0	10333.5
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	12424.0	0.0	12424.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.2	1.1
10°-20°	541.8	4.4
20°-30°	1052.9	8.5
30°-40°	1718.5	13.8
40°-50°	2347.9	18.9
50°-60°	2734.8	22.0
60°-70°	2451.8	19.7
70°-80°	1239.0	10.0
80°-90°	200.1	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°	12424.0	100.0
0°-180°	12424.0	100.0

**Coefficient of Utilization**



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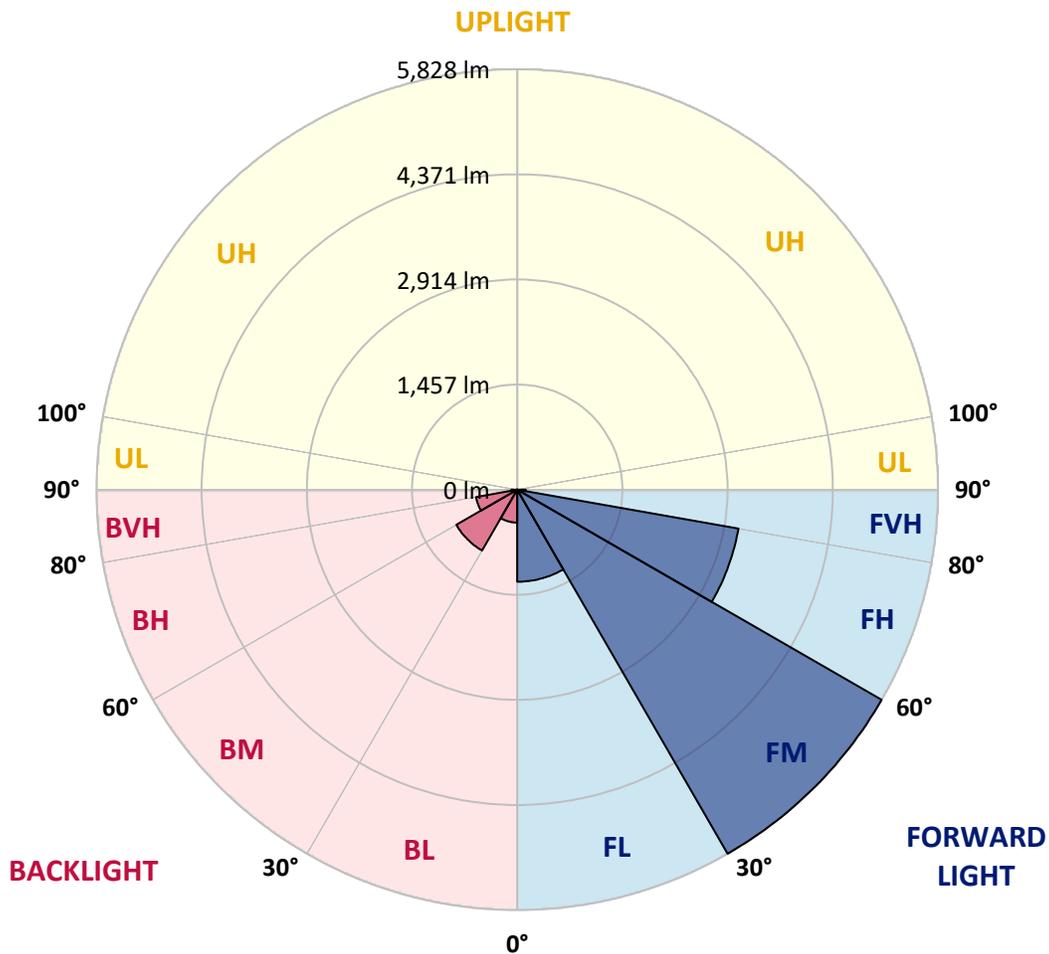
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1275.9	10.3			
FM	(30°-60°)	5827.7	46.9			
FH	(60°-80°)	3111.7	25.0			G2/5000
FVH	(80°-90°)	118.2	1.0			G2/225
BL	(0°-30°)	456.0	3.7	B1/500		
BM	(30°-60°)	973.5	7.8	B1/1000		
BH	(60°-80°)	579.2	4.7	B2/1000		G2/1000
BVH	(80°-90°)	81.9	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°	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6
2.5°	1506.2	1483.4	1481.3	1448.0	1440.4	1376.7	1329.9	1280.9	1225.3	1214.3	1170.4
5°	1934.7	1932.6	1903.5	1849.1	1806.5	1697.7	1590.1	1476.2	1351.4	1331.1	1232.4
7.5°	2320.2	2316.8	2294.5	2235.9	2174.3	2040.6	1887.0	1712.4	1510.0	1480.0	1316.4
10°	2612.9	2611.7	2604.1	2561.1	2508.8	2380.5	2211.0	1972.7	1694.3	1653.4	1421.4
12.5°	2839.0	2841.5	2846.6	2831.4	2806.5	2697.3	2523.5	2248.5	1890.8	1850.4	1538.2
15°	2992.1	2999.7	3025.9	3047.4	3060.4	2993.4	2825.1	2530.7	2111.0	2062.5	1667.7
17.5°	3069.3	3077.7	3122.9	3187.8	3247.7	3241.0	3107.3	2799.8	2322.3	2275.5	1806.9
20°	3135.9	3142.3	3192.9	3270.9	3376.8	3423.6	3348.5	3058.8	2553.9	2498.2	1954.5
22.5°	3329.1	3337.1	3352.3	3396.6	3490.2	3576.3	3540.0	3303.8	2766.0	2714.2	2094.6
25°	3702.0	3711.7	3678.8	3641.2	3659.0	3718.8	3725.6	3527.4	2981.1	2922.5	2245.1
27.5°	4151.2	4165.1	4109.0	4012.4	3928.0	3904.9	3896.8	3710.4	3186.6	3118.7	2394.0
30°	4591.1	4615.1	4542.2	4416.9	4262.1	4153.3	4072.7	3889.7	3389.0	3324.1	2534.5
32.5°	5020.9	5011.2	4905.3	4783.0	4601.6	4465.4	4270.5	4082.0	3616.8	3542.1	2674.1
35°	5315.3	5318.7	5220.4	5075.3	4902.4	4797.8	4535.4	4289.5	3849.2	3780.4	2832.7
37.5°	5565.8	5550.2	5438.9	5303.5	5154.6	5109.9	4845.4	4518.1	4101.0	4025.9	3001.4
40°	5649.3	5631.2	5558.2	5460.8	5341.4	5337.6	5187.5	4777.1	4385.7	4311.4	3191.6
42.5°	5598.7	5575.5	5545.6	5519.0	5482.3	5499.2	5508.9	5080.8	4698.6	4615.6	3411.8
45°	5411.9	5376.9	5398.0	5455.7	5535.5	5630.8	5799.1	5416.9	5049.1	4979.5	3670.3
47.5°	5124.6	5093.0	5158.8	5282.4	5499.2	5740.4	6073.6	5788.1	5467.5	5398.4	4038.6
50°	4720.6	4729.9	4823.9	5048.7	5376.4	5791.1	6411.9	6279.5	6075.8	6011.2	4540.9
52.5°	4057.5	4059.2	4324.1	4693.2	5158.8	5764.9	6599.6	6907.5	6906.2	6828.2	5019.2
55°	3441.7	3479.3	3688.9	4179.4	4806.2	5660.3	6730.8	7212.9	7451.6	7360.1	5465.0
57.5°	2840.3	2862.2	3060.9	3553.5	4303.0	5381.5	6865.3	7579.4	8080.1	8022.3	6019.2
60°	2156.1	2189.9	2395.3	2850.4	3659.4	4886.8	6878.0	7962.0	8831.3	8773.0	6638.0
62.5°	1399.5	1457.7	1650.0	2076.4	2880.8	4175.2	6584.4	8212.1	9543.2	9522.6	7187.2
65°	804.3	848.2	981.9	1310.9	1987.4	3281.9	5886.4	8115.9	9981.5	9969.6	7392.6
66°	657.1	684.6	787.0	1024.5	1639.9	2882.0	5480.6	7913.0	10024.9	10025.3	7368.9
67.5°	525.5	537.8	583.7	733.5	1210.1	2284.4	4755.6	7465.5	9970.9	9985.7	7216.7
70°	434.9	441.2	455.5	491.8	660.5	1377.5	3375.5	6302.7	9428.9	9440.3	6622.4
72.5°	390.1	393.9	399.4	404.5	466.1	769.8	2061.7	5042.0	8266.9	8281.7	5716.8
75°	353.5	355.6	354.7	355.1	391.0	490.5	1065.4	3764.4	6684.4	6654.9	4379.4
77.5°	310.4	312.5	308.3	309.2	345.9	377.1	530.2	2635.3	4510.9	4302.6	2467.4
80°	262.3	264.0	262.3	265.3	301.2	284.7	308.3	1482.6	1994.6	1886.6	877.3
82.5°	198.2	205.4	210.5	222.3	248.0	202.5	206.3	577.4	607.4	578.3	269.1
85°	86.9	105.9	158.6	170.0	186.4	121.5	135.4	235.4	247.2	239.6	97.9
87.5°	22.8	24.9	78.5	98.7	103.3	54.8	70.4	107.1	113.0	107.1	32.5
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°	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6
2.5°	1147.2	1126.6	1089.5	1056.6	1031.7	1014.8	997.9	989.5	984.4	979.4	980.2
5°	1183.9	1142.2	1078.5	1033.4	1008.1	992.0	983.6	980.2	978.1	973.0	973.0
7.5°	1239.2	1180.1	1092.4	1046.0	1026.2	1014.0	1008.9	1007.2	1004.7	998.8	999.6
10°	1308.8	1226.1	1121.5	1076.4	1058.2	1044.8	1037.6	1035.1	1030.4	1023.7	1024.5
12.5°	1390.6	1283.1	1159.9	1112.7	1090.7	1072.6	1060.8	1053.6	1045.6	1036.7	1037.2
15°	1480.0	1345.1	1201.2	1145.1	1115.2	1089.9	1070.9	1058.7	1046.0	1035.1	1034.6
17.5°	1570.7	1405.0	1232.9	1162.9	1122.4	1089.0	1063.3	1044.3	1028.7	1015.2	1014.0
20°	1668.6	1458.9	1250.6	1161.2	1108.9	1069.2	1035.1	1011.4	994.1	980.6	978.5
22.5°	1768.1	1509.6	1253.5	1143.9	1078.9	1030.4	994.6	968.4	950.7	936.8	931.7
25°	1859.2	1548.8	1241.3	1110.5	1037.2	984.9	949.9	923.3	908.9	892.5	887.4
27.5°	1942.3	1576.2	1216.8	1067.9	990.3	938.9	906.0	883.2	867.6	855.0	850.7
30°	2017.0	1591.0	1176.8	1017.3	942.3	895.4	867.6	852.0	838.5	822.5	819.5
32.5°	2087.8	1591.0	1125.3	962.1	894.6	857.1	840.6	830.9	815.7	800.1	795.9
35°	2158.7	1581.3	1064.6	904.3	850.7	829.6	828.8	817.4	794.2	773.1	767.6
37.5°	2233.3	1561.4	996.2	850.3	814.9	817.4	824.6	799.3	766.4	736.4	728.4
40°	2317.7	1534.0	925.4	803.5	784.9	811.9	813.2	773.1	709.0	681.6	674.4
42.5°	2416.8	1506.6	859.6	762.2	761.3	795.5	791.7	716.6	678.2	664.3	660.5
45°	2547.1	1491.0	797.2	722.9	742.8	768.9	755.0	685.4	669.4	661.4	658.0
47.5°	2752.5	1499.0	739.8	691.7	724.2	742.3	686.7	672.7	661.4	651.7	648.3
50°	3009.8	1494.4	693.4	670.2	703.1	714.5	655.9	656.3	650.4	639.4	634.4
52.5°	3203.4	1458.1	663.5	658.0	684.6	665.1	636.5	640.3	637.3	621.3	615.8
55°	3390.3	1426.9	648.3	653.3	671.1	603.6	613.7	623.0	620.0	604.4	601.9
57.5°	3622.7	1421.0	639.0	654.6	659.7	572.8	591.8	604.0	601.9	595.1	593.9
60°	3907.4	1422.7	630.6	656.7	647.0	550.0	571.1	586.7	588.0	586.7	585.9
62.5°	4063.9	1376.7	609.5	650.8	624.7	530.2	549.6	572.4	572.8	575.3	574.9
65°	3931.0	1239.2	570.2	630.1	587.1	513.7	531.0	555.9	549.6	561.0	561.0
66°	3801.9	1159.9	550.8	616.6	571.1	507.4	525.1	547.5	539.5	555.1	555.1
67.5°	3538.3	1026.2	515.8	588.0	548.3	498.5	518.4	533.6	522.6	545.8	544.1
70°	3056.6	793.8	445.4	523.0	510.8	485.5	509.1	505.7	489.7	525.1	518.4
72.5°	2577.1	603.1	357.7	437.8	453.8	469.0	496.0	470.3	450.0	474.9	460.2
75°	1999.7	453.4	282.6	340.4	383.4	443.3	480.4	429.4	400.3	397.7	389.7
77.5°	1081.0	311.3	224.0	259.8	304.5	411.2	469.9	385.5	341.6	331.5	325.2
80°	428.1	202.5	162.8	197.0	213.0	364.8	444.6	334.5	281.7	271.6	261.9
82.5°	176.7	119.8	105.0	132.0	138.8	312.1	399.0	274.2	217.6	301.2	319.7
85°	75.9	65.8	62.4	68.3	78.5	218.9	317.6	209.2	234.9	209.6	166.6
87.5°	22.8	27.8	26.6	26.2	28.7	52.3	169.1	116.4	172.5	65.4	48.9
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)