

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: P1209324

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

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209324
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-SA2-110-740-U-T2R
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 4000K, 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: 15379 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

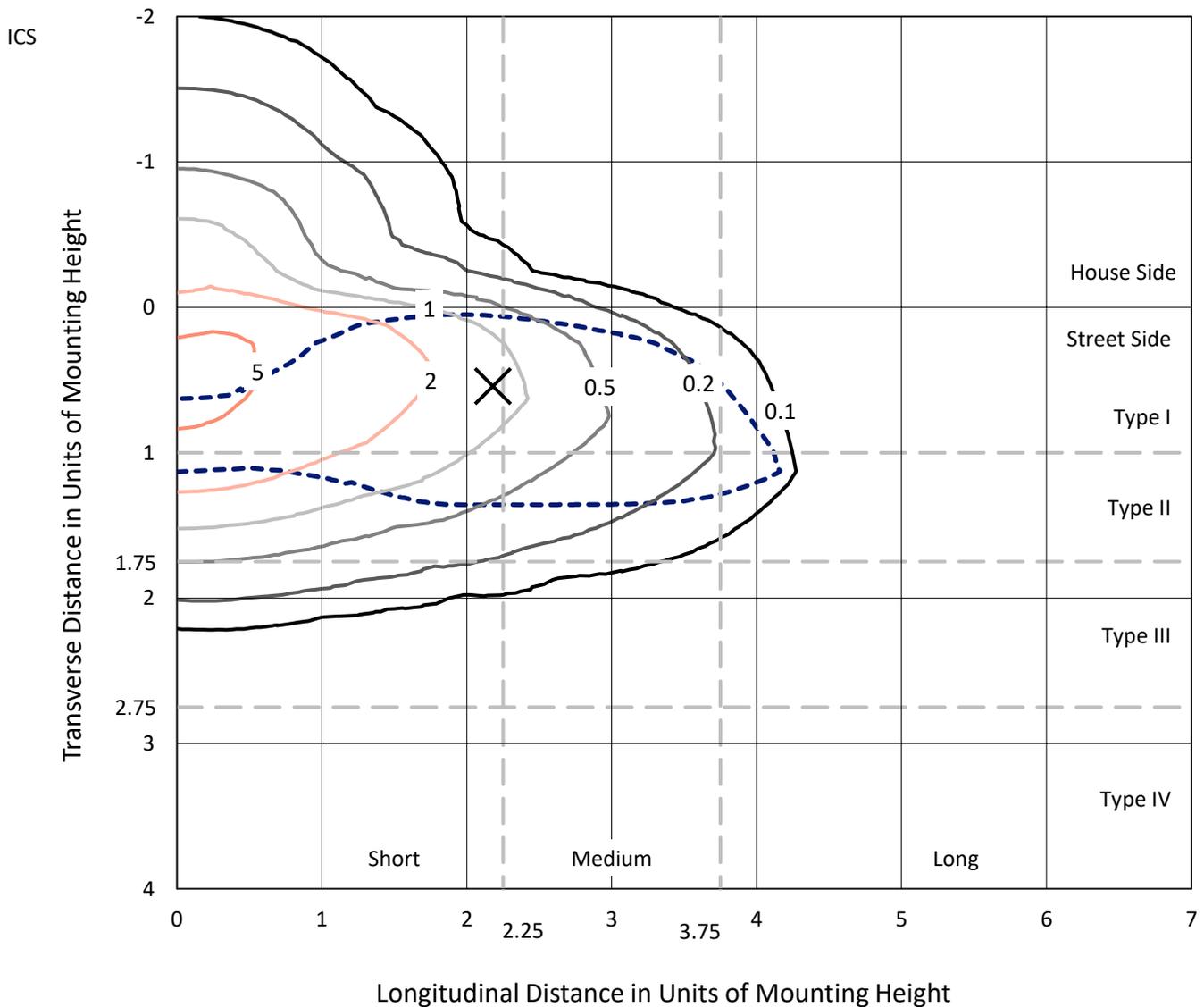
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

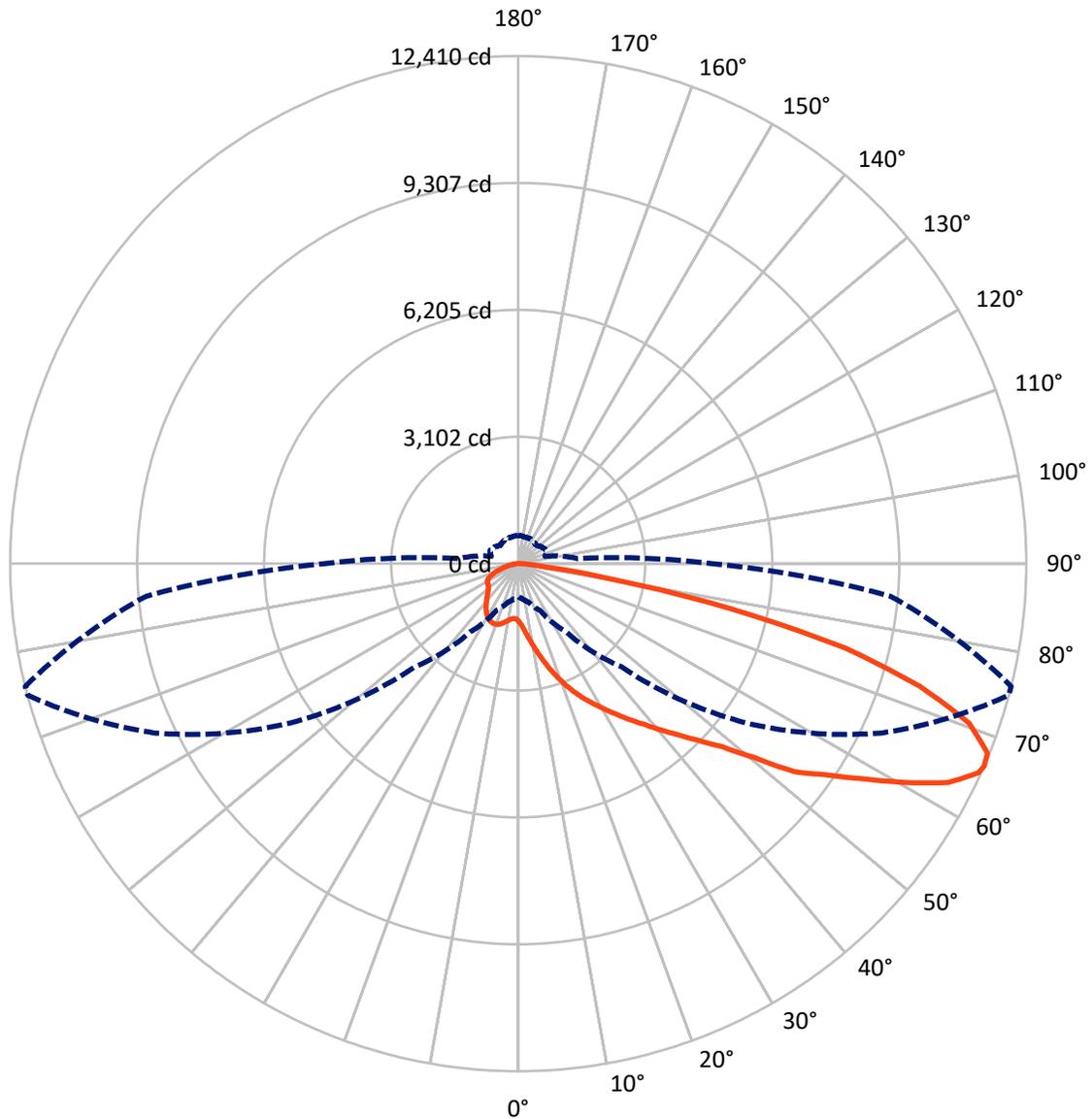
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	2587.8	0.0	2587.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	12791.2	0.0	12791.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	15379.0	0.0	15379.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.8	1.1
10°-20°	670.7	4.4
20°-30°	1303.3	8.5
30°-40°	2127.2	13.8
40°-50°	2906.3	18.9
50°-60°	3385.3	22.0
60°-70°	3035.0	19.7
70°-80°	1533.7	10.0
80°-90°	247.7	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°	15379.0	100.0
0°-180°	15379.0	100.0



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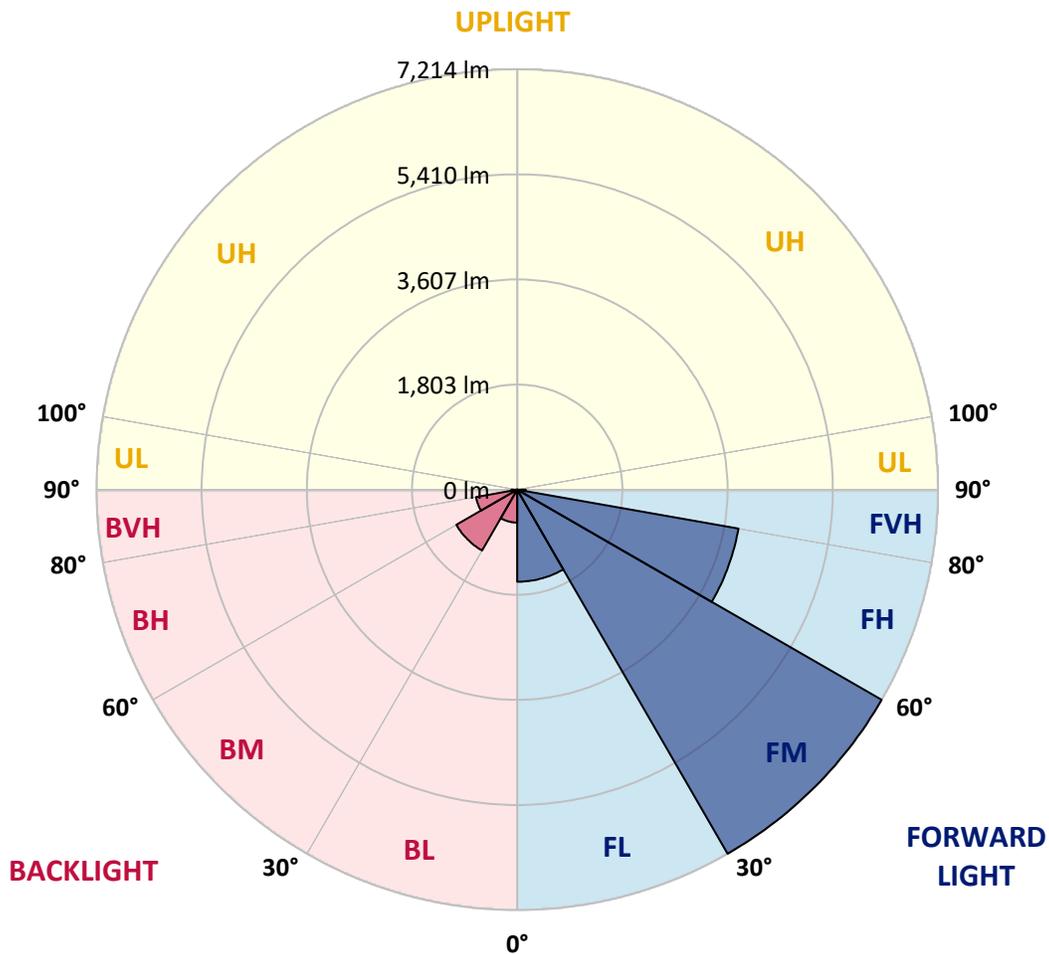
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1579.4	10.3			
FM (30°-60°)	7213.8	46.9			
FH (60°-80°)	3851.8	25.0			G2/5000
FVH (80°-90°)	146.3	1.0			G2/225
BL (0°-30°)	564.4	3.7	B2/1000		
BM (30°-60°)	1205.0	7.8	B2/2500		
BH (60°-80°)	716.9	4.7	B2/1000		G2/1000
BVH (80°-90°)	101.4	0.7			G2/225
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°	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4
2.5°	1864.4	1836.2	1833.6	1792.4	1783.0	1704.1	1646.2	1585.6	1516.7	1503.1	1448.8
5°	2394.9	2392.3	2356.2	2288.9	2236.2	2101.5	1968.3	1827.4	1672.8	1647.7	1525.6
7.5°	2872.1	2867.9	2840.2	2767.7	2691.4	2525.9	2335.9	2119.7	1869.1	1832.0	1629.5
10°	3234.4	3232.8	3223.4	3170.2	3105.5	2946.7	2736.8	2441.9	2097.3	2046.6	1759.5
12.5°	3514.3	3517.4	3523.7	3504.9	3474.1	3338.8	3123.7	2783.3	2340.6	2290.5	1904.1
15°	3703.8	3713.2	3745.5	3772.2	3788.4	3705.3	3497.0	3132.6	2613.1	2553.1	2064.4
17.5°	3799.3	3809.8	3865.6	3946.0	4020.2	4011.8	3846.3	3465.7	2874.7	2816.7	2236.7
20°	3881.8	3889.6	3952.3	4048.9	4179.9	4237.9	4145.0	3786.3	3161.3	3092.4	2419.4
22.5°	4120.9	4130.9	4149.7	4204.5	4320.4	4426.9	4382.0	4089.6	3423.9	3359.7	2592.7
25°	4582.5	4594.5	4553.8	4507.3	4529.2	4603.4	4611.7	4366.3	3690.2	3617.6	2779.1
27.5°	5138.5	5155.7	5086.3	4966.7	4862.3	4833.6	4823.7	4592.9	3944.5	3860.4	2963.4
30°	5683.1	5712.8	5622.5	5467.4	5275.8	5141.1	5041.4	4814.8	4195.1	4114.7	3137.3
32.5°	6215.1	6203.1	6072.0	5920.6	5696.1	5527.5	5286.3	5052.9	4477.0	4384.6	3310.1
35°	6579.5	6583.7	6462.0	6282.4	6068.4	5938.9	5614.1	5309.8	4764.7	4679.6	3506.4
37.5°	6889.6	6870.3	6732.5	6564.9	6380.6	6325.2	5997.9	5592.7	5076.4	4983.4	3715.3
40°	6993.0	6970.6	6880.2	6759.6	6611.9	6607.2	6421.3	5913.3	5428.8	5336.9	3950.7
42.5°	6930.4	6901.6	6864.6	6831.7	6786.3	6807.1	6819.2	6289.2	5816.2	5713.3	4223.3
45°	6699.1	6655.7	6681.8	6753.4	6852.0	6970.0	7178.4	6705.3	6250.1	6163.9	4543.3
47.5°	6343.5	6304.4	6385.8	6538.8	6807.1	7105.8	7518.2	7164.8	6768.0	6682.4	4999.1
50°	5843.3	5854.8	5971.3	6249.5	6655.2	7168.4	7937.0	7773.0	7520.9	7441.0	5620.9
52.5°	5022.6	5024.7	5352.6	5809.4	6385.8	7136.1	8169.3	8550.4	8548.9	8452.3	6213.0
55°	4260.3	4306.8	4566.3	5173.5	5949.3	7006.6	8331.7	8928.4	9223.9	9110.6	6764.9
57.5°	3515.8	3543.0	3788.9	4398.7	5326.5	6661.5	8498.2	9382.1	10001.9	9930.3	7450.9
60°	2669.0	2710.7	2965.0	3528.4	4529.7	6049.1	8513.9	9855.7	10931.7	10859.7	8216.8
62.5°	1732.3	1804.4	2042.5	2570.3	3565.9	5168.3	8150.5	10165.3	11813.0	11787.5	8896.6
65°	995.6	1049.9	1215.4	1622.7	2460.1	4062.5	7286.4	10046.3	12355.5	12340.9	9150.9
66°	813.4	847.4	974.2	1268.2	2029.9	3567.5	6784.2	9795.1	12409.3	12409.8	9121.6
67.5°	650.5	665.7	722.6	907.9	1497.9	2827.7	5886.7	9241.2	12342.4	12360.7	8933.1
70°	538.3	546.1	563.9	608.8	817.6	1705.2	4178.4	7801.7	11671.6	11685.6	8197.5
72.5°	482.9	487.6	494.4	500.7	576.9	952.8	2552.0	6241.2	10233.2	10251.4	7076.5
75°	437.5	440.1	439.1	439.6	484.0	607.2	1318.8	4659.7	8274.2	8237.7	5421.0
77.5°	384.3	386.9	381.7	382.7	428.1	466.8	656.3	3262.1	5583.9	5325.9	3054.3
80°	324.7	326.8	324.7	328.4	372.8	352.4	381.7	1835.2	2469.0	2335.4	1086.0
82.5°	245.4	254.3	260.5	275.1	307.0	250.6	255.3	714.8	751.8	715.8	333.1
85°	107.6	131.0	196.3	210.4	230.8	150.4	167.6	291.3	306.0	296.6	121.1
87.5°	28.2	30.8	97.1	122.2	127.9	67.9	87.2	132.6	139.9	132.6	40.2
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°	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4
2.5°	1420.1	1394.5	1348.6	1307.9	1277.1	1256.2	1235.3	1224.8	1218.6	1212.3	1213.4
5°	1465.5	1413.8	1335.0	1279.1	1247.8	1228.0	1217.5	1213.4	1210.8	1204.5	1204.5
7.5°	1533.9	1460.8	1352.2	1294.8	1270.3	1255.1	1248.9	1246.8	1243.6	1236.3	1237.4
10°	1620.1	1517.7	1388.3	1332.4	1309.9	1293.2	1284.4	1281.2	1275.5	1267.1	1268.2
12.5°	1721.4	1588.2	1435.8	1377.3	1350.2	1327.7	1313.1	1304.2	1294.3	1283.3	1283.8
15°	1832.0	1665.0	1486.9	1417.5	1380.4	1349.1	1325.6	1310.5	1294.8	1281.2	1280.7
17.5°	1944.3	1739.1	1526.1	1439.4	1389.3	1348.1	1316.2	1292.7	1273.4	1256.7	1255.1
20°	2065.4	1805.9	1548.0	1437.3	1372.6	1323.5	1281.2	1252.0	1230.6	1213.9	1211.3
22.5°	2188.6	1868.6	1551.7	1415.9	1335.5	1275.5	1231.1	1198.7	1176.8	1159.6	1153.3
25°	2301.4	1917.2	1536.5	1374.7	1283.8	1219.1	1175.8	1142.9	1125.1	1104.8	1098.5
27.5°	2404.3	1951.1	1506.3	1322.0	1225.9	1162.2	1121.5	1093.3	1074.0	1058.3	1053.1
30°	2496.7	1969.4	1456.7	1259.3	1166.4	1108.4	1074.0	1054.6	1037.9	1018.1	1014.4
32.5°	2584.4	1969.4	1393.0	1190.9	1107.4	1060.9	1040.5	1028.5	1009.7	990.4	985.2
35°	2672.1	1957.4	1317.8	1119.4	1053.1	1027.0	1025.9	1011.8	983.1	957.0	950.2
37.5°	2764.5	1932.8	1233.2	1052.6	1008.7	1011.8	1020.7	989.4	948.7	911.6	901.7
40°	2868.9	1898.9	1145.5	994.6	971.6	1005.0	1006.6	957.0	877.7	843.7	834.8
42.5°	2991.6	1864.9	1064.0	943.4	942.4	984.7	980.0	887.0	839.5	822.3	817.6
45°	3153.0	1845.6	986.8	894.9	919.4	951.8	934.6	848.4	828.6	818.7	814.5
47.5°	3407.2	1855.5	915.8	856.2	896.4	918.9	850.0	832.7	818.7	806.6	802.5
50°	3725.7	1849.8	858.3	829.6	870.3	884.4	811.9	812.4	805.1	791.5	785.2
52.5°	3965.4	1804.9	821.3	814.5	847.4	823.4	787.8	792.5	788.9	769.1	762.3
55°	4196.6	1766.3	802.5	808.7	830.7	747.1	759.7	771.1	767.5	748.2	745.0
57.5°	4484.3	1759.0	791.0	810.3	816.6	709.0	732.5	747.6	745.0	736.7	735.1
60°	4836.7	1761.0	780.5	812.9	800.9	680.8	706.9	726.2	727.8	726.2	725.2
62.5°	5030.4	1704.1	754.4	805.6	773.2	656.3	680.3	708.5	709.0	712.1	711.6
65°	4866.0	1533.9	705.9	780.0	726.8	635.9	657.3	688.1	680.3	694.4	694.4
66°	4706.2	1435.8	681.9	763.3	706.9	628.1	650.0	677.7	667.8	687.1	687.1
67.5°	4379.9	1270.3	638.5	727.8	678.7	617.1	641.7	660.5	646.9	675.6	673.5
70°	3783.7	982.6	551.3	647.4	632.3	600.9	630.2	626.0	606.2	650.0	641.7
72.5°	3190.0	746.6	442.7	541.9	561.8	580.6	614.0	582.1	557.1	587.9	569.6
75°	2475.3	561.3	349.8	421.3	474.6	548.7	594.7	531.5	495.5	492.3	482.4
77.5°	1338.1	385.3	277.2	321.6	377.0	509.0	581.6	477.2	422.9	410.4	402.5
80°	529.9	250.6	201.5	243.8	263.7	451.6	550.3	414.0	348.8	336.2	324.2
82.5°	218.8	148.3	130.0	163.4	171.8	386.4	493.9	339.4	269.4	372.8	395.8
85°	94.0	81.4	77.3	84.6	97.1	271.0	393.1	259.0	290.8	259.5	206.2
87.5°	28.2	34.5	32.9	32.4	35.5	64.7	209.4	144.1	213.5	80.9	60.6
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)