

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: P1209093

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

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-750-U-RW
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OF
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12190 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

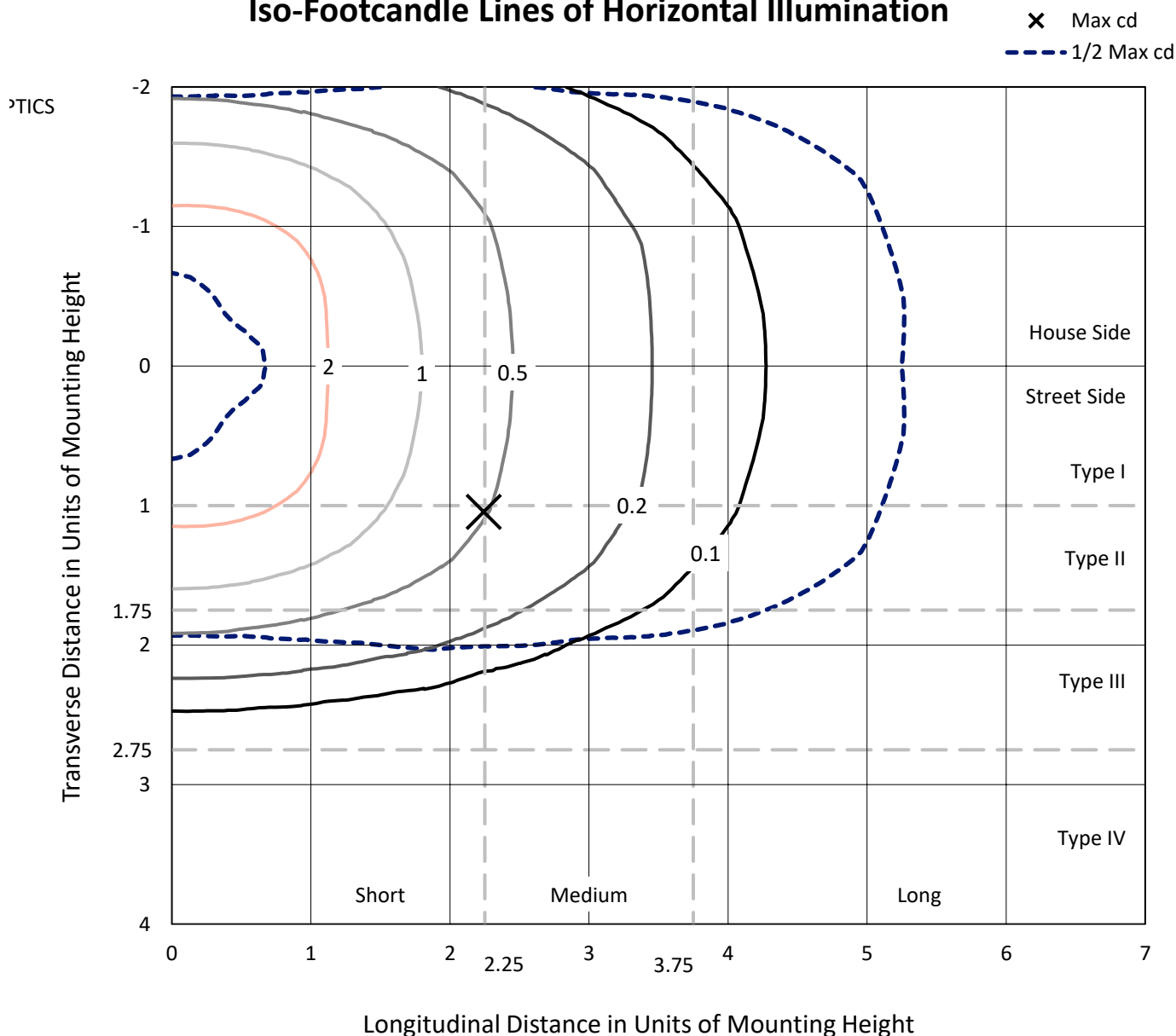
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination



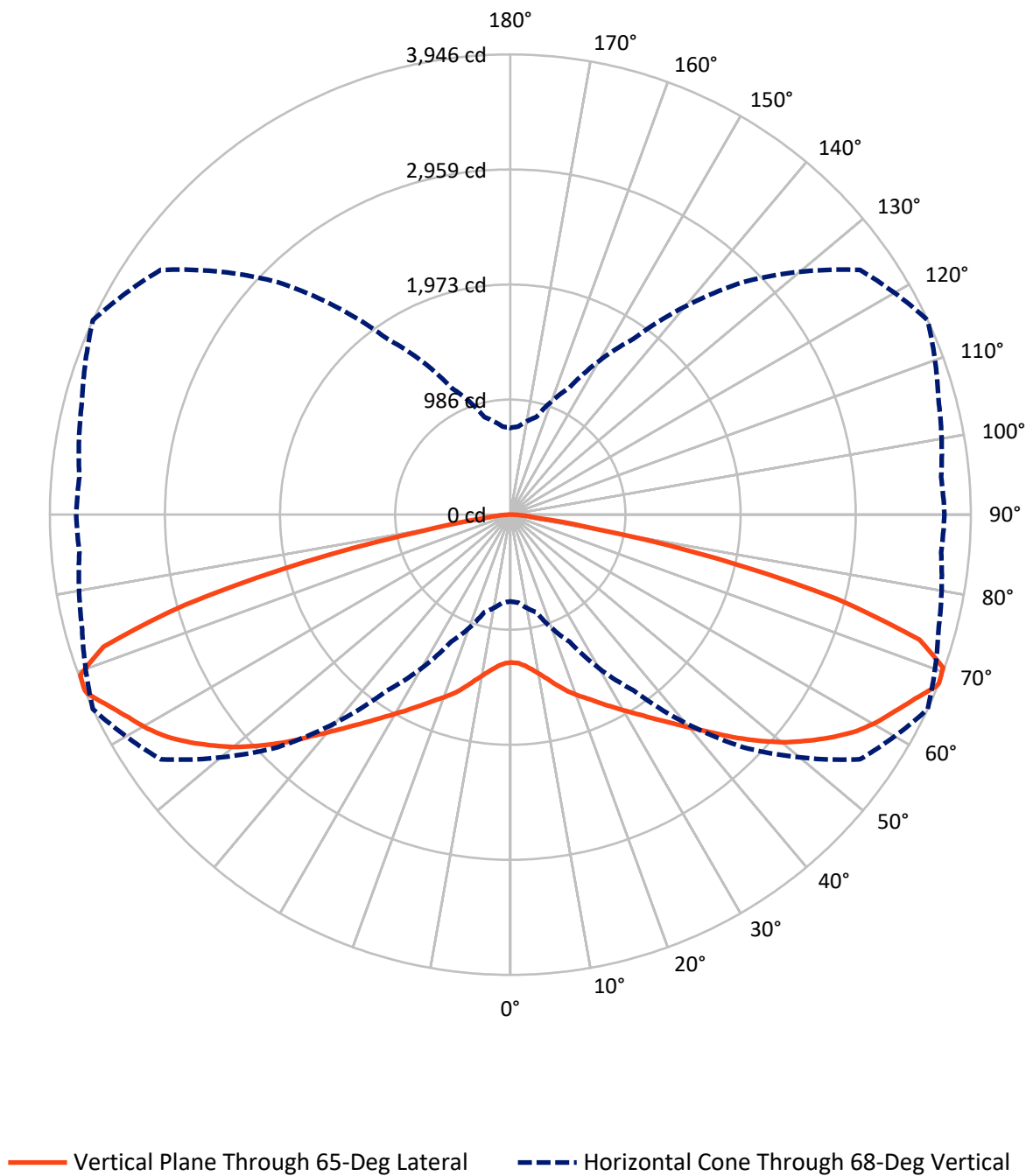
Based on 20 foot mounting height. Maximum calculated value = 3.6 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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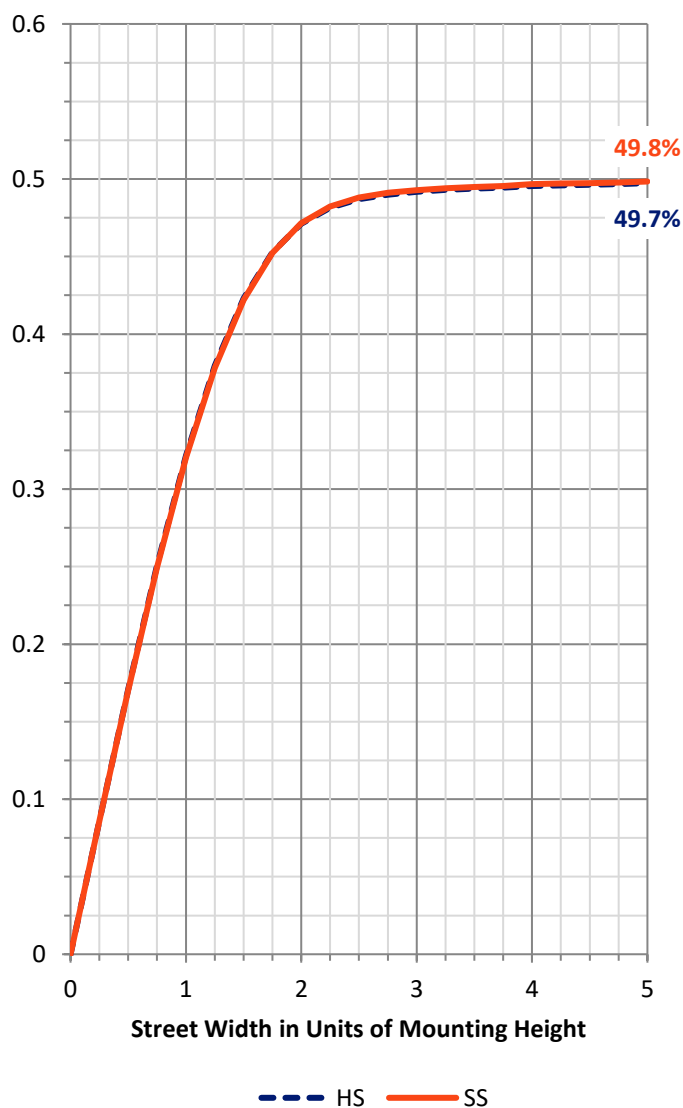
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6095.0	0.0	6095.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6095.0	0.0	6095.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12190.0	0.0	12190.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.1	1.0
10°-20°	415.5	3.4
20°-30°	810.2	6.6
30°-40°	1361.0	11.2
40°-50°	2144.5	17.6
50°-60°	2867.9	23.5
60°-70°	2787.9	22.9
70°-80°	1524.0	12.5
80°-90°	155.0	1.3
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°	12190.0	100.0
0°-180°	12190.0	100.0

Coefficient of Utilization



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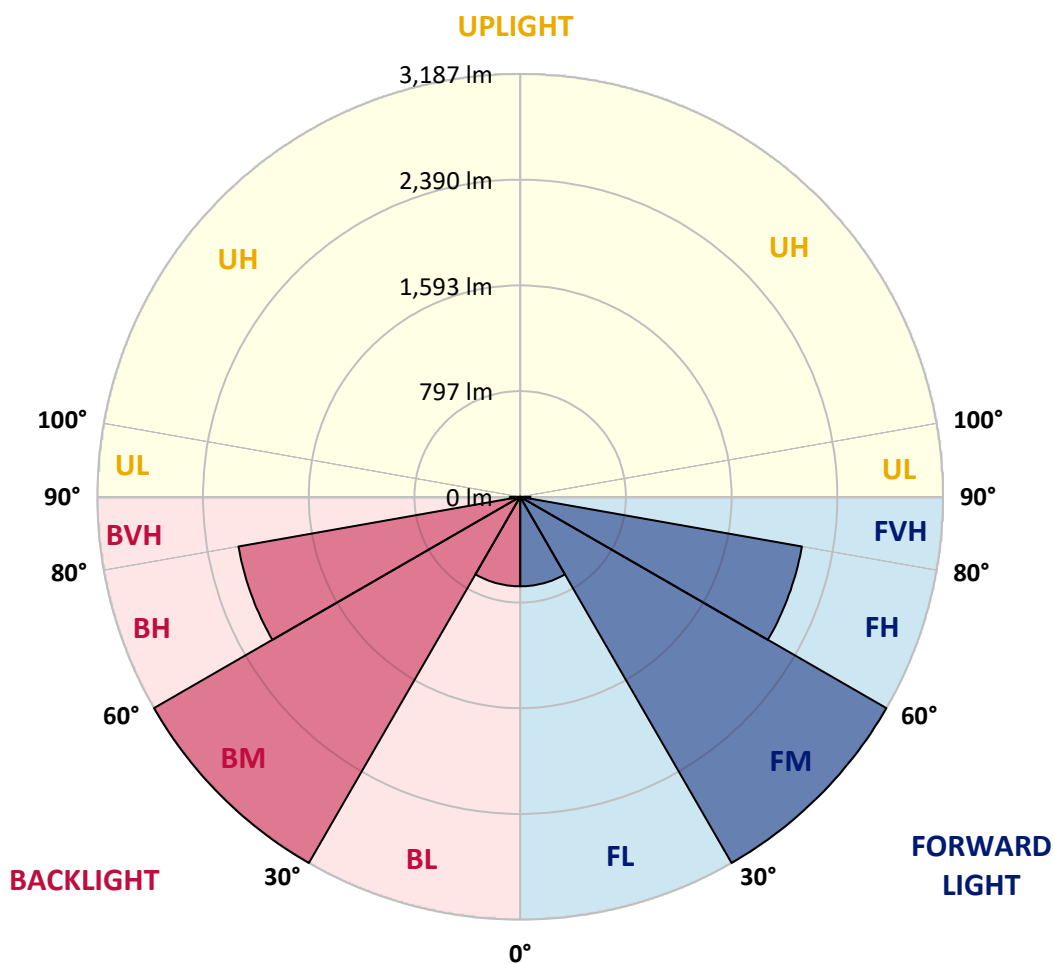
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	674.9	5.5			
FM	(30°-60°)	3186.7	26.1			
FH	(60°-80°)	2156.0	17.7			G2/5000
FVH	(80°-90°)	77.5	0.6			G1/100
BL	(0°-30°)	674.9	5.5	B2/1000		
BM	(30°-60°)	3186.7	26.1	B3/5000		
BH	(60°-80°)	2156.0	17.7	B3/2500		G3/2500
BVH	(80°-90°)	77.5	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5
2.5°	1258.5	1258.9	1260.9	1263.4	1265.4	1270.7	1272.0	1274.0	1274.8	1276.9	1276.9
5°	1247.4	1248.3	1253.2	1259.7	1267.1	1280.1	1289.5	1300.2	1305.5	1311.2	1310.8
7.5°	1246.2	1248.3	1255.2	1265.8	1278.1	1299.8	1319.4	1340.6	1354.9	1368.0	1367.2
10°	1258.9	1262.2	1272.0	1287.9	1306.3	1333.3	1362.3	1390.9	1415.8	1435.9	1436.7
12.5°	1278.1	1282.2	1297.7	1321.8	1349.6	1384.4	1418.7	1451.0	1485.3	1515.2	1517.6
15°	1303.4	1308.8	1332.1	1368.0	1410.5	1451.8	1488.6	1521.7	1561.4	1602.6	1606.7
17.5°	1341.0	1348.4	1379.1	1427.7	1483.7	1529.1	1567.5	1592.4	1625.5	1668.0	1675.8
20°	1398.3	1407.7	1446.5	1504.5	1572.8	1620.2	1649.6	1654.9	1671.3	1709.3	1718.3
22.5°	1472.7	1480.8	1524.2	1593.2	1669.7	1721.2	1736.7	1715.4	1713.8	1744.5	1753.0
25°	1555.6	1563.0	1613.3	1690.9	1773.1	1829.9	1829.5	1788.2	1759.6	1783.3	1792.3
27.5°	1648.8	1660.3	1708.5	1790.2	1878.1	1934.1	1930.8	1867.1	1812.7	1818.9	1826.6
30°	1755.9	1768.6	1815.6	1898.6	1986.4	2041.2	2037.1	1952.9	1871.2	1854.8	1860.5
32.5°	1888.7	1903.9	1948.4	2030.2	2107.8	2157.3	2145.4	2046.1	1941.5	1905.9	1911.2
35°	2048.6	2057.5	2104.6	2185.1	2248.0	2281.9	2257.0	2154.0	2030.6	1987.7	1987.7
37.5°	2210.4	2217.4	2270.1	2348.2	2409.1	2427.0	2378.4	2272.1	2147.1	2086.2	2087.4
40°	2365.7	2384.5	2443.8	2523.9	2584.0	2588.9	2524.3	2407.0	2276.6	2213.7	2221.0
42.5°	2528.0	2546.4	2617.1	2707.8	2761.0	2769.1	2693.5	2558.2	2423.0	2371.9	2380.0
45°	2672.7	2687.4	2769.1	2874.6	2940.8	2962.1	2872.6	2731.5	2581.1	2531.3	2533.3
47.5°	2773.6	2792.9	2882.8	3007.0	3103.5	3136.2	3048.3	2900.4	2736.9	2676.4	2681.7
50°	2865.2	2875.4	2966.6	3102.3	3224.9	3292.3	3217.1	3067.1	2894.2	2830.0	2835.8
52.5°	2916.3	2929.4	3017.7	3159.1	3304.2	3412.9	3367.1	3217.1	3046.3	2983.7	2990.7
55°	2880.7	2890.5	2996.4	3171.7	3353.2	3487.3	3494.2	3363.9	3195.5	3140.7	3160.3
57.5°	2718.9	2731.1	2860.3	3090.0	3359.4	3537.6	3589.9	3500.0	3334.8	3290.3	3301.7
60°	2465.9	2473.6	2611.4	2869.7	3240.0	3558.4	3650.8	3611.1	3471.3	3426.8	3442.3
62.5°	2015.0	2026.5	2191.2	2537.4	2987.8	3496.7	3709.6	3703.1	3598.5	3557.6	3571.5
65°	1377.4	1397.4	1579.7	2017.5	2599.1	3307.9	3763.2	3810.2	3710.9	3659.4	3677.8
67.5°	831.8	846.5	978.5	1332.1	1988.9	2926.9	3708.0	3932.0	3790.2	3707.2	3722.3
68°	743.5	757.0	867.3	1202.1	1839.7	2819.4	3657.7	3945.9	3798.7	3706.4	3719.9
70°	449.2	458.2	532.2	743.1	1226.6	2236.6	3314.8	3934.4	3853.5	3717.8	3725.6
72.5°	292.7	295.5	307.8	381.3	626.6	1250.7	2487.9	3666.3	3935.7	3784.4	3783.2
75°	243.2	241.6	242.8	251.4	309.0	548.5	1453.9	2896.3	3751.7	3679.4	3653.6
77.5°	205.6	204.4	204.0	204.4	206.8	264.9	631.1	1804.1	2870.9	3254.7	3277.6
80°	166.4	164.7	170.0	167.6	160.2	164.7	264.4	750.4	1353.3	1455.9	1364.3
82.5°	121.0	114.9	137.7	131.2	125.1	116.1	145.9	242.4	322.9	221.5	155.7
85°	93.2	86.7	104.6	100.5	85.8	59.3	86.7	118.5	130.8	74.8	58.9
87.5°	38.0	40.1	75.6	59.7	50.3	28.6	35.6	47.4	63.8	31.9	24.5
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)