

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: P1209162

Luminaire Tested: UPW-SA2-090-827-U-T2R

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209162
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-SA2-090-827-U-T2R
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 80 CRI, 2700K, 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: 9134 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

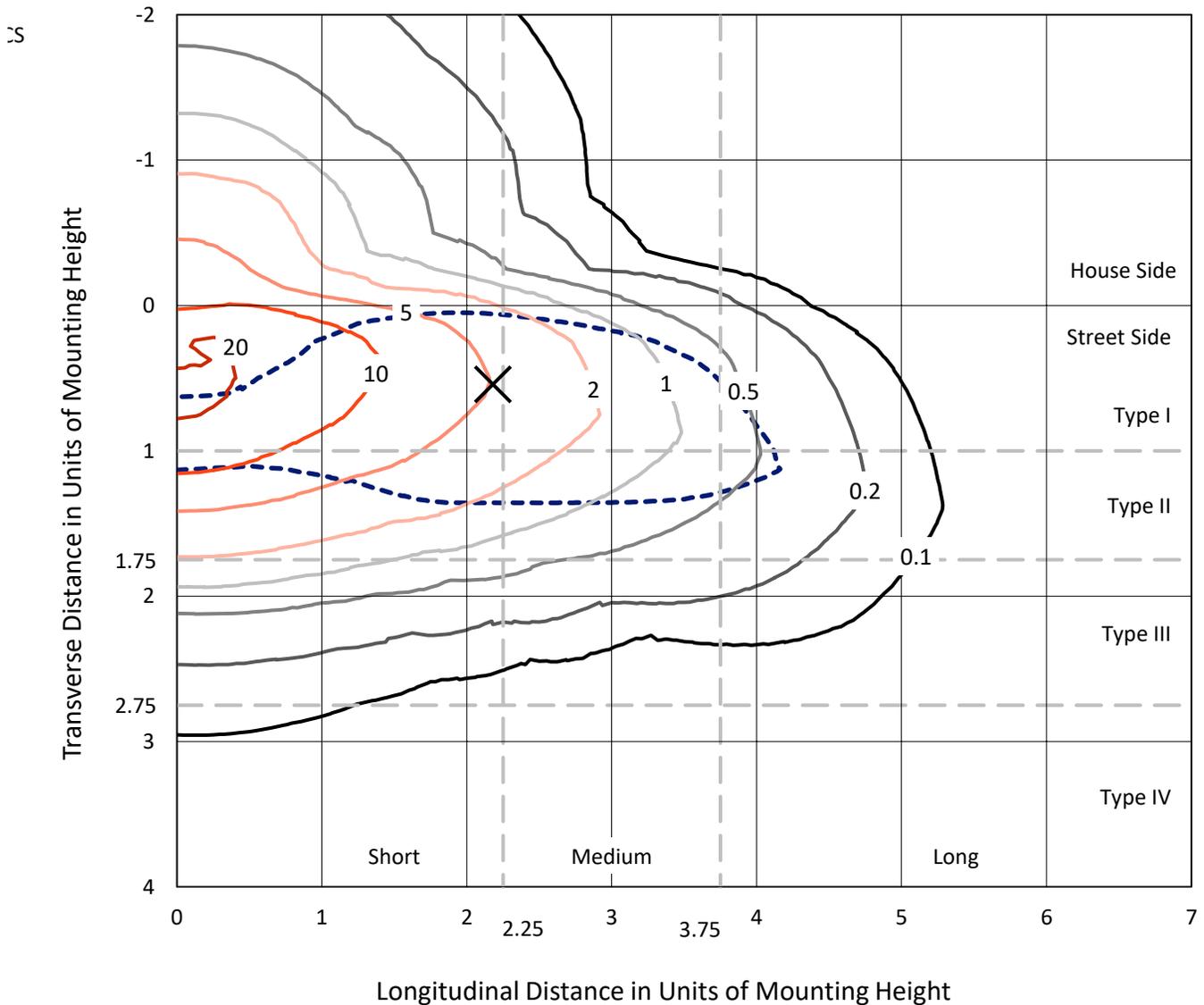
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P1209162
 CATALOG NUMBER: UPW-SA2-090-827-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

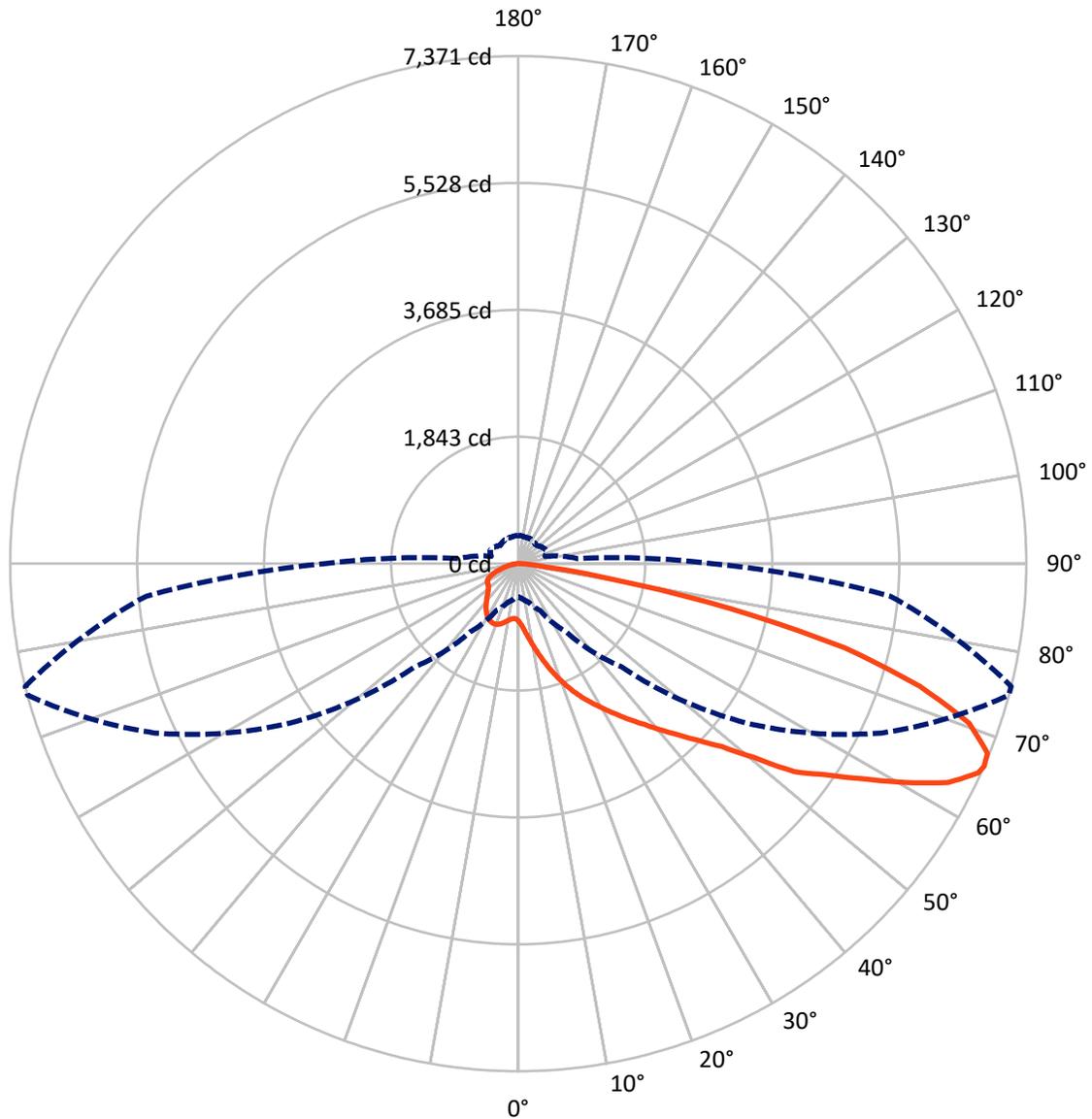


Based on 10 foot mounting height. Maximum calculated value = 22.1 fc
 Type II - Short - N/A

REPORT NUMBER: P1209162

CATALOG NUMBER: UPW-SA2-090-827-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P1209162

CATALOG NUMBER: UPW-SA2-090-827-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1536.9	0.0	1536.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	7597.1	0.0	7597.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	9134.0	0.0	9134.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	1.1
10°-20°	398.3	4.4
20°-30°	774.1	8.5
30°-40°	1263.4	13.8
40°-50°	1726.1	18.9
50°-60°	2010.6	22.0
60°-70°	1802.5	19.7
70°-80°	910.9	10.0
80°-90°	147.1	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°	9134.0	100.0
0°-180°	9134.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1209162

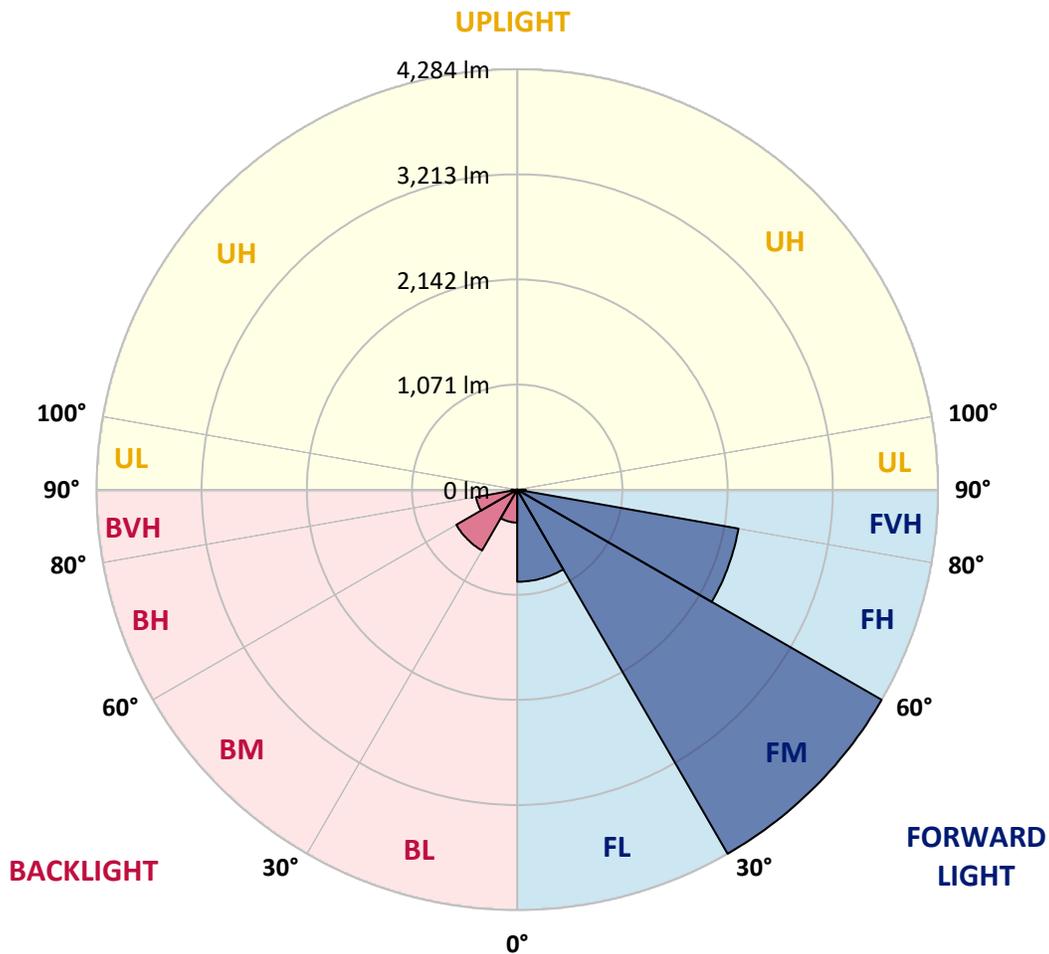
CATALOG NUMBER: UPW-SA2-090-827-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	938.0	10.3			
FM	(30°-60°)	4284.5	46.9			
FH	(60°-80°)	2287.7	25.0			G2/5000
FVH	(80°-90°)	86.9	1.0			G1/100
BL	(0°-30°)	335.2	3.7	B1/500		
BM	(30°-60°)	715.7	7.8	B1/1000		
BH	(60°-80°)	425.8	4.7	B1/500		G1/500
BVH	(80°-90°)	60.2	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





REPORT NUMBER: P1209162

CATALOG NUMBER: UPW-SA2-090-827-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1
2.5°	1107.3	1090.6	1089.0	1064.5	1059.0	1012.1	977.7	941.7	900.8	892.7	860.5
5°	1422.4	1420.8	1399.4	1359.4	1328.1	1248.1	1169.0	1085.3	993.5	978.6	906.1
7.5°	1705.8	1703.3	1686.9	1643.8	1598.5	1500.2	1387.3	1259.0	1110.1	1088.1	967.8
10°	1921.0	1920.1	1914.5	1882.9	1844.4	1750.1	1625.5	1450.3	1245.6	1215.6	1045.0
12.5°	2087.2	2089.1	2092.8	2081.6	2063.3	1983.0	1855.3	1653.1	1390.1	1360.4	1130.9
15°	2199.8	2205.4	2224.6	2240.4	2250.0	2200.7	2077.0	1860.5	1552.0	1516.3	1226.1
17.5°	2256.5	2262.7	2295.9	2343.7	2387.7	2382.7	2284.4	2058.4	1707.4	1672.9	1328.4
20°	2305.5	2310.2	2347.4	2404.7	2482.6	2517.0	2461.8	2248.8	1877.6	1836.7	1437.0
22.5°	2447.5	2453.4	2464.6	2497.1	2566.0	2629.2	2602.6	2428.9	2033.6	1995.4	1539.9
25°	2721.7	2728.8	2704.6	2677.0	2690.0	2734.1	2739.0	2593.3	2191.7	2148.6	1650.6
27.5°	3051.9	3062.1	3020.9	2949.9	2887.9	2870.8	2864.9	2727.9	2342.7	2292.8	1760.1
30°	3375.3	3393.0	3339.4	3247.3	3133.5	3053.4	2994.2	2859.6	2491.6	2443.8	1863.3
32.5°	3691.3	3684.2	3606.3	3516.4	3383.1	3282.9	3139.7	3001.0	2659.0	2604.1	1966.0
35°	3907.7	3910.2	3838.0	3731.3	3604.2	3527.3	3334.4	3153.6	2829.9	2779.3	2082.6
37.5°	4091.9	4080.5	3998.6	3899.1	3789.6	3756.7	3562.3	3321.7	3015.0	2959.8	2206.6
40°	4153.3	4140.0	4086.4	4014.7	3927.0	3924.2	3813.8	3512.1	3224.3	3169.7	2346.4
42.5°	4116.1	4099.1	4077.1	4057.5	4030.5	4042.9	4050.1	3735.3	3454.4	3393.3	2508.3
45°	3978.8	3953.0	3968.5	4011.0	4069.6	4139.7	4263.4	3982.5	3712.1	3660.9	2698.4
47.5°	3767.6	3744.3	3792.7	3883.6	4042.9	4220.3	4465.3	4255.4	4019.7	3968.8	2969.1
50°	3470.5	3477.3	3546.5	3711.8	3952.7	4257.5	4714.0	4616.6	4466.8	4419.4	3338.4
52.5°	2983.1	2984.3	3179.0	3450.4	3792.7	4238.3	4852.0	5078.3	5077.4	5020.0	3690.1
55°	2530.3	2557.9	2712.0	3072.7	3533.5	4161.4	4948.4	5302.8	5478.3	5411.1	4017.8
57.5°	2088.1	2104.3	2250.3	2612.5	3163.5	3956.4	5047.3	5572.3	5940.4	5897.9	4425.3
60°	1585.2	1610.0	1761.0	2095.6	2690.3	3592.7	5056.6	5853.6	6492.6	6449.9	4880.2
62.5°	1028.9	1071.7	1213.1	1526.6	2117.9	3069.6	4840.8	6037.4	7016.1	7000.9	5283.9
65°	591.3	623.6	721.9	963.8	1461.1	2412.8	4327.6	5966.7	7338.3	7329.6	5434.9
66°	483.1	503.3	578.6	753.2	1205.6	2118.8	4029.3	5817.6	7370.2	7370.5	5417.6
67.5°	386.4	395.4	429.2	539.2	889.6	1679.4	3496.3	5488.6	7330.5	7341.4	5305.6
70°	319.7	324.4	334.9	361.6	485.6	1012.8	2481.6	4633.7	6932.0	6940.4	4868.7
72.5°	286.8	289.6	293.7	297.4	342.6	565.9	1515.7	3706.8	6077.8	6088.6	4203.0
75°	259.9	261.4	260.8	261.1	287.5	360.6	783.3	2767.5	4914.3	4892.6	3219.7
77.5°	228.2	229.8	226.7	227.3	254.3	277.2	389.8	1937.4	3316.4	3163.2	1814.0
80°	192.9	194.1	192.9	195.0	221.4	209.3	226.7	1090.0	1466.4	1387.0	645.0
82.5°	145.7	151.0	154.7	163.4	182.3	148.8	151.6	424.5	446.5	425.1	197.8
85°	63.9	77.8	116.6	125.0	137.1	89.3	99.5	173.0	181.7	176.1	71.9
87.5°	16.7	18.3	57.7	72.6	76.0	40.3	51.8	78.8	83.1	78.8	23.9
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: P1209162

CATALOG NUMBER: UPW-SA2-090-827-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1
2.5°	843.4	828.2	801.0	776.8	758.5	746.1	733.7	727.5	723.7	720.0	720.6
5°	870.4	839.7	792.9	759.7	741.1	729.3	723.1	720.6	719.1	715.4	715.4
7.5°	911.0	867.6	803.1	769.0	754.4	745.5	741.7	740.5	738.6	734.3	734.9
10°	962.2	901.4	824.5	791.3	778.0	768.1	762.8	761.0	757.5	752.6	753.2
12.5°	1022.4	943.3	852.7	818.0	801.9	788.6	779.9	774.6	768.7	762.2	762.5
15°	1088.1	988.9	883.1	841.9	819.9	801.3	787.3	778.3	769.0	761.0	760.6
17.5°	1154.8	1032.9	906.4	854.9	825.1	800.7	781.7	767.8	756.3	746.4	745.5
20°	1226.7	1072.6	919.4	853.7	815.2	786.1	761.0	743.6	730.9	721.0	719.4
22.5°	1299.9	1109.8	921.6	841.0	793.2	757.5	731.2	712.0	698.9	688.7	685.0
25°	1366.9	1138.6	912.6	816.5	762.5	724.1	698.3	678.8	668.2	656.1	652.4
27.5°	1428.0	1158.8	894.6	785.1	728.1	690.3	666.1	649.3	637.9	628.6	625.5
30°	1482.8	1169.7	865.1	747.9	692.7	658.3	637.9	626.4	616.5	604.7	602.5
32.5°	1534.9	1169.7	827.3	707.3	657.7	630.1	618.0	610.9	599.7	588.2	585.1
35°	1587.0	1162.5	782.7	664.8	625.5	609.9	609.3	601.0	583.9	568.4	564.4
37.5°	1641.9	1148.0	732.4	625.1	599.1	601.0	606.2	587.6	563.4	541.4	535.5
40°	1703.9	1127.8	680.3	590.7	577.1	596.9	597.9	568.4	521.3	501.1	495.8
42.5°	1776.8	1107.6	632.0	560.3	559.7	584.8	582.0	526.8	498.6	488.4	485.6
45°	1872.6	1096.2	586.1	531.5	546.1	565.3	555.1	503.9	492.1	486.2	483.7
47.5°	2023.6	1102.1	543.9	508.5	532.4	545.8	504.8	494.6	486.2	479.1	476.6
50°	2212.8	1098.6	509.8	492.7	516.9	525.3	482.2	482.5	478.2	470.1	466.4
52.5°	2355.1	1072.0	487.8	483.7	503.3	489.0	467.9	470.7	468.5	456.8	452.7
55°	2492.5	1049.0	476.6	480.3	493.4	443.7	451.2	458.0	455.8	444.4	442.5
57.5°	2663.4	1044.7	469.8	481.3	485.0	421.1	435.1	444.0	442.5	437.5	436.6
60°	2872.7	1045.9	463.6	482.8	475.7	404.4	419.9	431.3	432.3	431.3	430.7
62.5°	2987.7	1012.1	448.1	478.5	459.2	389.8	404.0	420.8	421.1	423.0	422.7
65°	2890.0	911.0	419.2	463.3	431.6	377.7	390.4	408.7	404.0	412.4	412.4
66°	2795.1	852.7	405.0	453.4	419.9	373.0	386.1	402.5	396.6	408.1	408.1
67.5°	2601.3	754.4	379.2	432.3	403.1	366.5	381.1	392.3	384.2	401.3	400.0
70°	2247.2	583.6	327.5	384.5	375.5	356.9	374.3	371.8	360.0	386.1	381.1
72.5°	1894.6	443.4	263.0	321.9	333.7	344.8	364.7	345.7	330.9	349.2	338.3
75°	1470.1	333.3	207.8	250.2	281.9	325.9	353.2	315.7	294.3	292.4	286.5
77.5°	794.8	228.8	164.7	191.0	223.9	302.3	345.4	283.4	251.2	243.7	239.1
80°	314.7	148.8	119.7	144.8	156.6	268.2	326.8	245.9	207.1	199.7	192.6
82.5°	129.9	88.1	77.2	97.1	102.0	229.5	293.3	201.6	160.0	221.4	235.0
85°	55.8	48.4	45.9	50.2	57.7	160.9	233.5	153.8	172.7	154.1	122.5
87.5°	16.7	20.5	19.5	19.2	21.1	38.5	124.3	85.6	126.8	48.1	36.0
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)