

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: P1209095

Luminaire Tested: UPW-SA2-090-750-U-SL2

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209095  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-1)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-090-750-U-SL2  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11439 lumens  
Efficiency: N/A  
Efficacy: 133.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
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

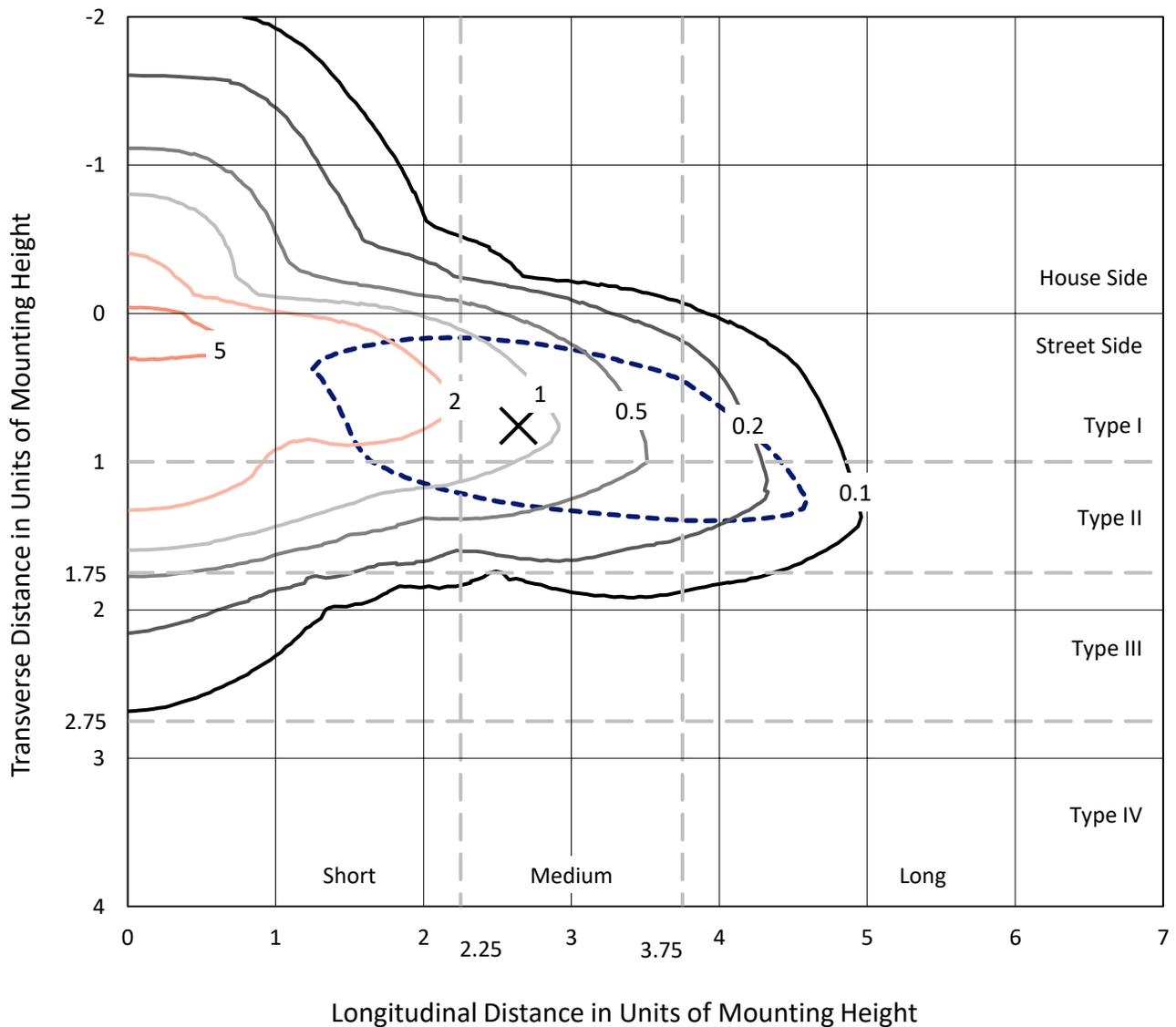


REPORT NUMBER: P1209095

CATALOG NUMBER: UPW-SA2-090-750-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

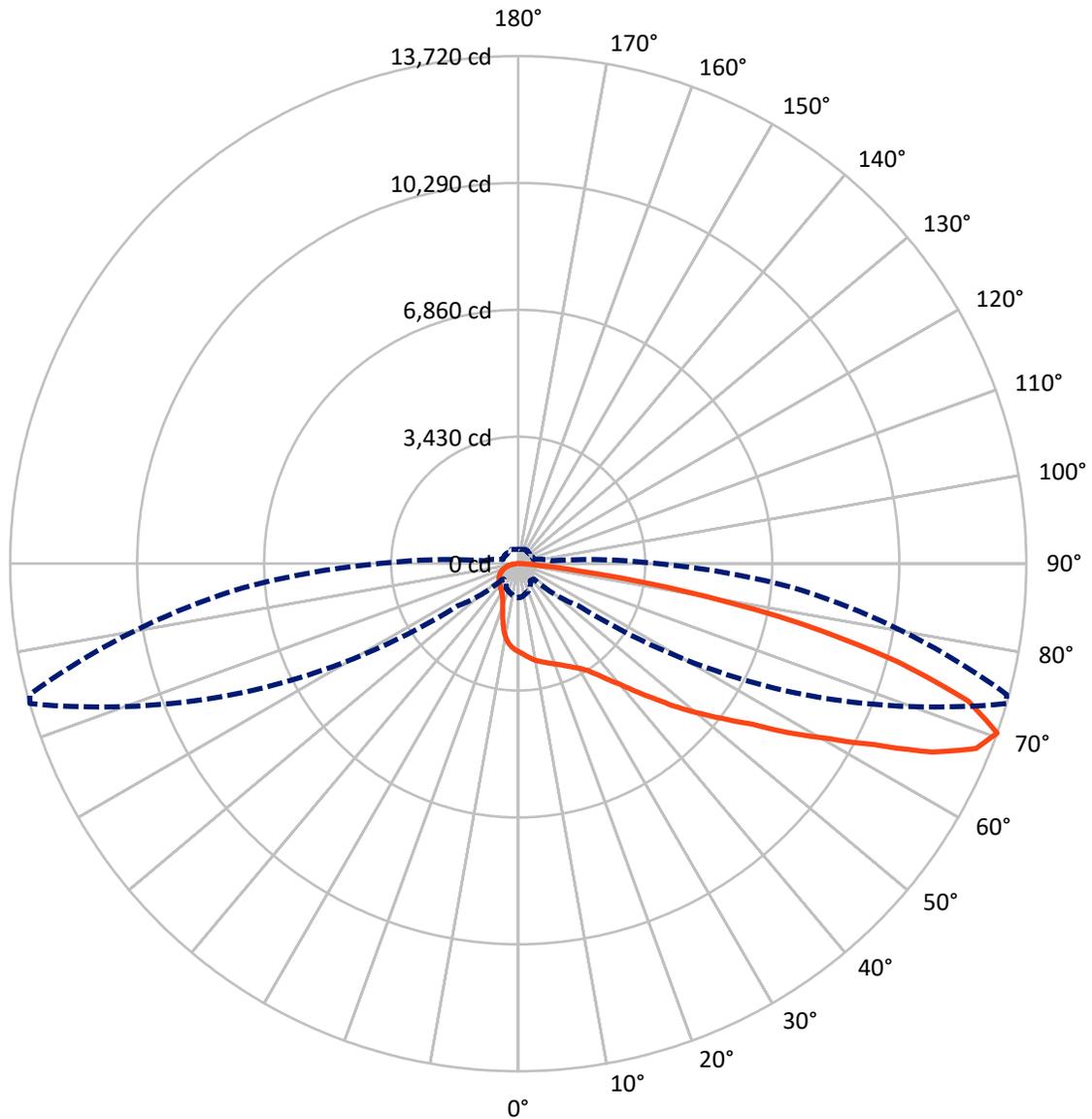
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 fc  
 Type II - Medium - N/A

REPORT NUMBER: P1209095  
CATALOG NUMBER: UPW-SA2-090-750-U-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P1209095

CATALOG NUMBER: UPW-SA2-090-750-U-SL2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2093.8	0.0	2093.8
	% Fixture	18.3	0.0	18.3
<b>Street Side</b>	Lumens	9345.2	0.0	9345.2
	% Fixture	81.7	0.0	81.7
<b>Total</b>	Lumens	11439.0	0.0	11439.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.2	1.8
10°-20°	550.3	4.8
20°-30°	871.5	7.6
30°-40°	1298.5	11.4
40°-50°	1790.6	15.7
50°-60°	2401.4	21.0
60°-70°	2492.2	21.8
70°-80°	1577.0	13.8
80°-90°	248.2	2.2
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°	11439.0	100.0
0°-180°	11439.0	100.0



REPORT NUMBER: P1209095

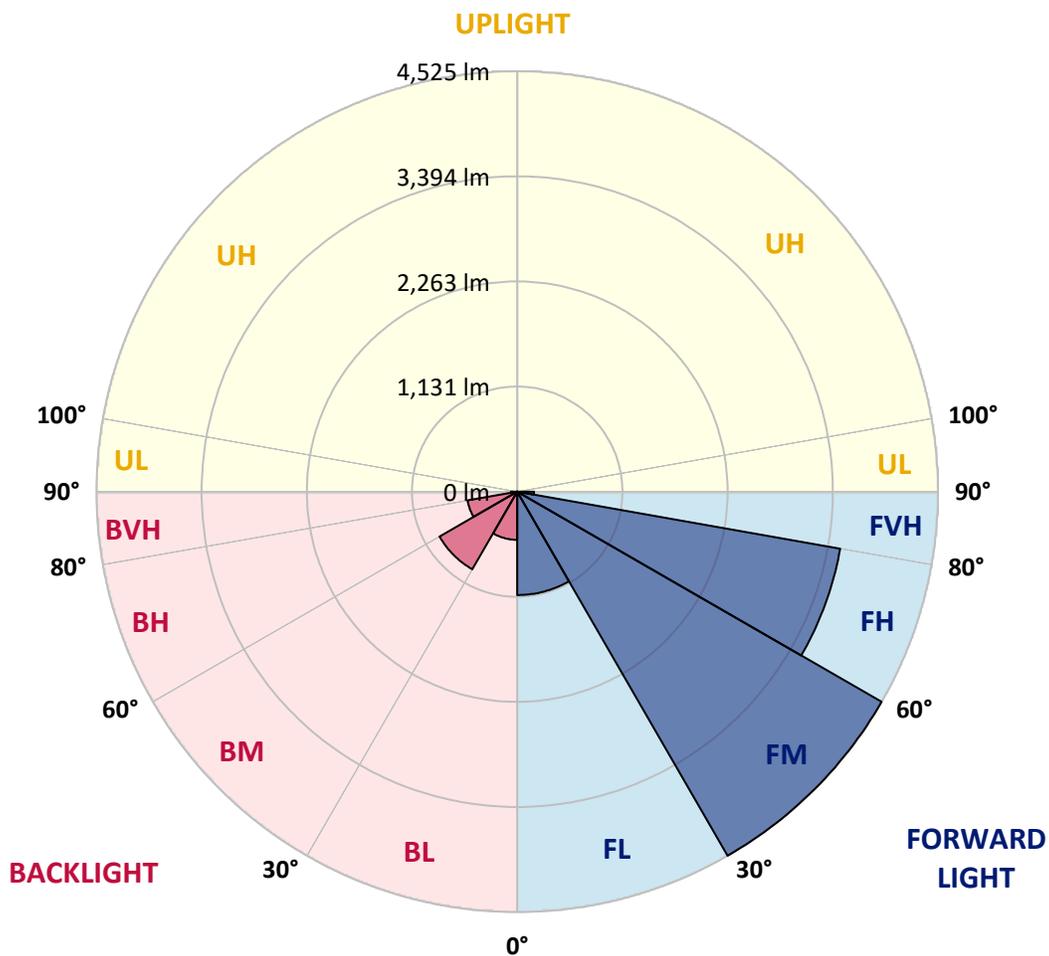
CATALOG NUMBER: UPW-SA2-090-750-U-SL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1112.8	9.7			
FM (30°-60°)	4525.1	39.6			
FH (60°-80°)	3527.0	30.8			G2/5000
FVH (80°-90°)	180.4	1.6			G2/225
BL (0°-30°)	518.2	4.5	B2/1000		
BM (30°-60°)	965.4	8.4	B1/1000		
BH (60°-80°)	542.3	4.7	B2/1000		G2/1000
BVH (80°-90°)	67.8	0.6			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 Medium





REPORT NUMBER: P1209095

CATALOG NUMBER: UPW-SA2-090-750-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0
2.5°	2547.1	2543.3	2534.3	2534.3	2530.5	2521.5	2495.9	2469.1	2443.5	2440.9	2407.6
5°	2652.1	2645.7	2644.4	2644.4	2639.3	2630.3	2595.8	2558.6	2521.5	2513.8	2453.7
7.5°	2702.0	2696.9	2698.2	2704.6	2714.8	2707.1	2676.4	2644.4	2594.5	2588.1	2498.5
10°	2675.1	2679.0	2694.3	2730.2	2755.8	2769.8	2744.2	2714.8	2663.6	2655.9	2534.3
12.5°	2504.9	2516.4	2565.0	2657.2	2754.5	2808.2	2807.0	2776.2	2714.8	2708.4	2562.5
15°	2247.6	2233.5	2323.1	2470.3	2647.0	2799.3	2849.2	2835.1	2773.7	2764.7	2595.8
17.5°	2120.9	2122.2	2161.9	2252.7	2447.3	2726.3	2872.2	2894.0	2836.4	2824.9	2632.9
20°	2172.1	2170.8	2174.7	2205.4	2298.8	2577.8	2873.5	2958.0	2897.8	2890.2	2666.2
22.5°	2318.0	2312.9	2301.4	2275.8	2278.3	2446.0	2855.6	3028.4	2975.9	2960.6	2689.2
25°	2521.5	2508.7	2471.6	2414.0	2352.6	2406.3	2809.5	3110.3	3065.5	3048.9	2713.5
27.5°	2753.2	2750.6	2711.0	2600.9	2484.4	2456.3	2757.0	3199.9	3171.8	3148.7	2740.4
30°	2992.6	2978.5	2941.4	2823.6	2676.4	2565.0	2741.7	3298.5	3284.4	3254.9	2762.2
32.5°	3123.1	3116.7	3092.4	3020.7	2892.7	2722.5	2786.5	3399.6	3445.7	3423.9	2809.5
35°	3226.8	3215.3	3189.7	3160.2	3095.0	2929.8	2890.2	3521.2	3686.3	3647.9	2910.6
37.5°	3325.3	3312.5	3294.6	3266.5	3224.2	3128.2	3041.2	3687.6	3990.9	3964.0	3064.2
40°	3435.4	3421.3	3398.3	3379.1	3320.2	3290.8	3183.3	3846.3	4317.3	4304.5	3248.5
42.5°	3518.6	3503.3	3491.7	3478.9	3414.9	3359.9	3294.6	3997.3	4757.6	4725.6	3493.0
45°	3580.1	3571.1	3571.1	3555.7	3513.5	3362.5	3372.7	4199.6	5231.2	5221.0	3830.9
47.5°	3646.6	3635.1	3641.5	3627.4	3614.6	3365.0	3468.7	4469.6	5800.8	5791.8	4208.5
50°	3726.0	3714.5	3740.1	3719.6	3724.7	3441.8	3605.7	4807.5	6364.0	6342.2	4610.4
52.5°	3736.2	3733.7	3797.7	3843.7	3880.9	3617.2	3837.3	5210.7	6979.6	6979.6	5078.9
55°	3528.9	3523.7	3647.9	3843.7	4052.4	3953.8	4267.4	5841.8	7660.6	7678.5	5496.2
57.5°	2865.8	2890.2	3100.1	3485.3	4043.4	4433.8	4903.5	6609.7	8620.6	8561.7	5905.8
60°	1822.7	1858.5	2026.2	2556.1	3439.3	4514.4	5588.3	7585.1	9594.6	9482.0	6447.2
62.5°	1204.4	1173.7	1176.3	1425.9	2213.1	3793.8	5722.7	8740.9	10769.6	10687.7	6928.4
65°	1071.3	1049.6	940.8	875.5	1075.2	2369.2	4866.4	9574.1	12280.0	12050.9	7297.1
67.5°	1016.3	994.5	893.4	792.3	677.1	1210.8	3458.5	9420.5	13334.7	13190.0	7569.7
70°	920.3	907.5	825.6	747.5	565.7	584.9	1995.5	8269.8	13719.9	13650.8	7445.6
72.5°	800.0	784.6	729.6	675.8	496.6	431.3	957.4	6556.0	12707.5	12702.4	6919.5
75°	655.3	642.5	597.7	579.8	419.8	353.3	544.0	4604.0	10586.6	10530.3	6150.2
77.5°	536.3	518.4	487.7	473.6	348.2	284.2	382.7	3214.0	7812.9	7665.7	4304.5
80°	389.1	377.6	348.2	381.4	275.2	220.2	284.2	1999.3	4591.2	4291.7	1612.8
82.5°	236.8	213.8	240.6	291.8	203.5	157.4	208.6	1114.8	1646.0	1446.4	481.3
85°	110.1	112.6	140.8	186.9	121.6	92.2	130.6	487.7	477.4	456.9	202.2
87.5°	17.9	19.2	53.8	81.9	51.2	30.7	52.5	107.5	180.5	185.6	87.0
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: P1209095

CATALOG NUMBER: UPW-SA2-090-750-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0
2.5°	2387.1	2366.7	2329.5	2288.6	2242.5	2200.3	2182.3	2123.5	2109.4	2105.5	2076.1
5°	2411.5	2366.7	2269.4	2154.2	2019.8	1898.2	1763.8	1656.3	1596.1	1591.0	1598.7
7.5°	2435.8	2365.4	2187.5	1954.5	1716.4	1480.9	1337.6	1253.1	1194.2	1180.1	1184.0
10°	2448.6	2347.5	2062.0	1703.6	1374.7	1203.2	1121.2	1091.8	1082.8	1075.2	1075.2
12.5°	2451.1	2307.8	1895.6	1433.6	1173.7	1090.5	1067.5	1059.8	1058.5	1057.3	1054.7
15°	2453.7	2257.9	1683.2	1224.9	1082.8	1056.0	1047.0	1045.7	1048.3	1047.0	1047.0
17.5°	2451.1	2190.0	1477.1	1104.6	1049.6	1039.3	1034.2	1032.9	1036.8	1035.5	1034.2
20°	2442.2	2103.0	1276.1	1043.2	1026.5	1024.0	1017.6	1012.5	1017.6	1018.9	1017.6
22.5°	2407.6	1975.0	1131.5	1004.8	1004.8	1004.8	997.1	990.7	999.7	1002.2	1003.5
25°	2353.9	1821.4	1024.0	972.8	979.2	976.6	976.6	975.3	984.3	986.9	988.1
27.5°	2297.5	1661.4	948.5	938.2	948.5	954.9	966.4	967.7	967.7	965.1	963.8
30°	2225.9	1487.3	899.8	907.5	921.6	944.6	965.1	962.5	953.6	944.6	945.9
32.5°	2168.3	1346.5	852.5	880.6	906.2	939.5	957.4	961.3	960.0	944.6	944.6
35°	2146.5	1233.9	820.5	857.6	896.0	926.7	934.4	951.0	948.5	929.3	928.0
37.5°	2160.6	1143.0	792.3	833.3	880.6	896.0	912.6	916.5	884.5	864.0	858.9
40°	2191.3	1076.4	766.7	802.5	855.0	867.8	890.9	856.3	829.4	812.8	815.3
42.5°	2277.1	1048.3	743.7	768.0	816.6	846.1	837.1	826.9	789.7	762.9	760.3
45°	2412.7	1047.0	723.2	732.1	773.1	803.8	802.5	791.0	751.3	723.2	719.3
47.5°	2598.3	1072.6	701.4	698.9	732.1	751.3	769.3	751.3	710.4	678.4	674.5
50°	2819.8	1139.2	680.9	664.3	687.3	716.8	725.7	712.9	674.5	643.8	640.0
52.5°	3086.0	1231.3	663.0	633.6	640.0	680.9	701.4	689.9	646.4	613.1	608.0
55°	3344.5	1318.4	638.7	601.6	591.3	647.7	679.7	678.4	614.4	579.8	577.3
57.5°	3609.5	1400.3	611.8	574.7	558.1	611.8	656.6	661.7	581.1	544.0	544.0
60°	3878.3	1457.9	578.5	546.5	537.6	572.1	622.1	623.3	551.7	523.5	526.1
62.5°	4098.4	1423.3	545.3	519.7	513.3	533.7	583.7	595.2	549.1	518.4	520.9
65°	4191.9	1308.1	508.1	494.1	483.8	491.5	537.6	551.7	503.0	468.5	472.3
67.5°	4131.7	1140.4	471.0	464.6	450.5	448.0	477.4	486.4	450.5	428.8	426.2
70°	3774.6	910.1	426.2	426.2	413.4	401.9	417.3	424.9	396.8	384.0	386.5
72.5°	3266.5	739.8	382.7	387.8	369.9	354.6	363.5	367.3	350.7	344.3	341.8
75°	2826.2	618.2	339.2	346.9	327.7	303.4	313.6	313.6	299.5	298.2	297.0
77.5°	2060.7	464.6	291.8	300.8	285.4	254.7	257.3	258.6	253.4	253.4	254.7
80°	881.9	284.2	238.1	252.2	236.8	199.7	207.4	207.4	220.2	252.2	247.0
82.5°	293.1	169.0	180.5	198.4	181.8	148.5	157.4	169.0	217.6	208.6	198.4
85°	125.4	93.4	115.2	125.4	116.5	89.6	102.4	176.6	161.3	156.2	157.4
87.5°	42.2	39.7	48.6	57.6	41.0	28.2	52.5	107.5	105.0	79.4	76.8
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)