

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: P1208784

Luminaire Tested: UPW-SA2-070-730-U-T2R

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1208784  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/20/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-070-730-U-T2R  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9227 lumens  
Efficiency: N/A  
Efficacy: 139.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

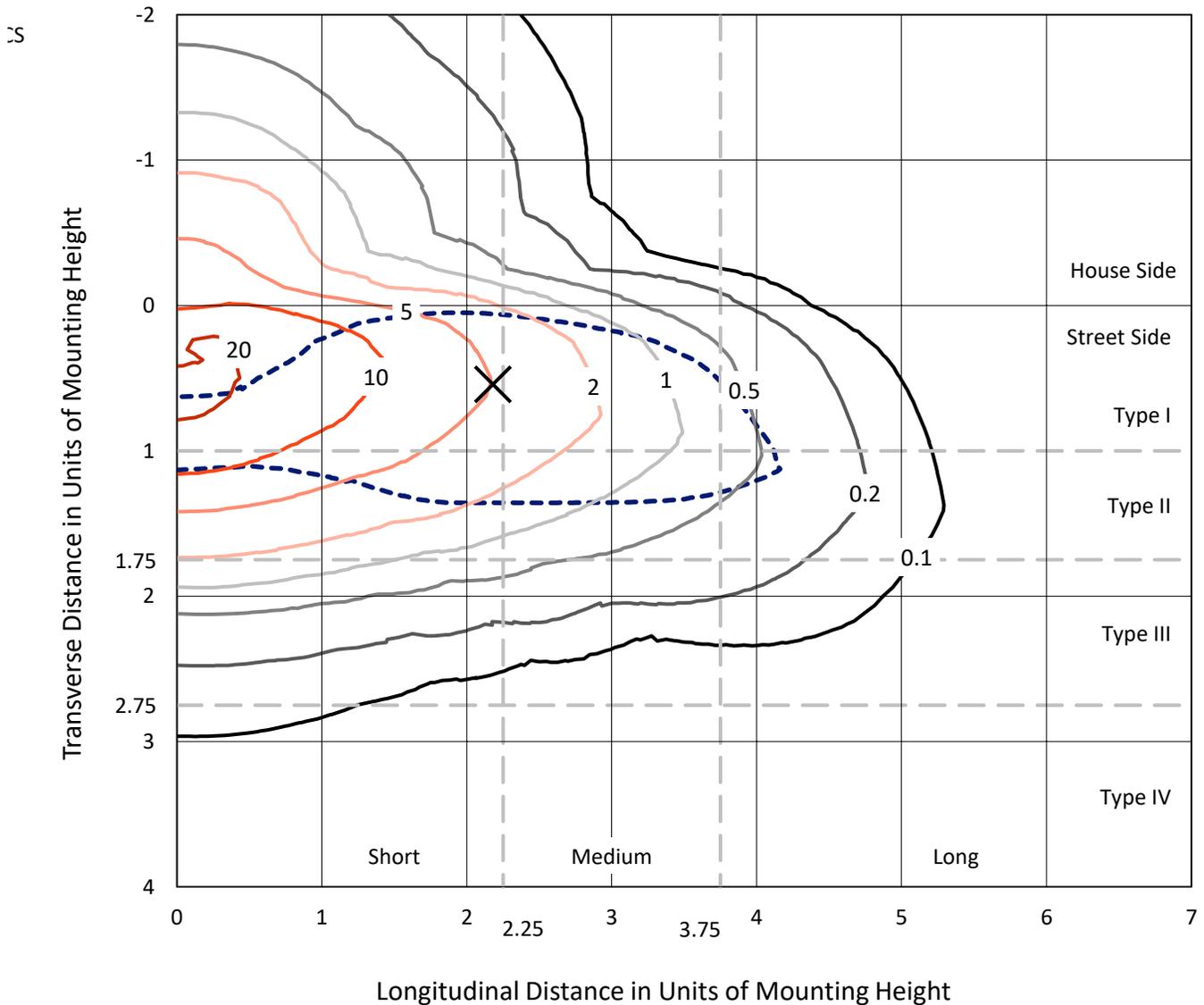
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

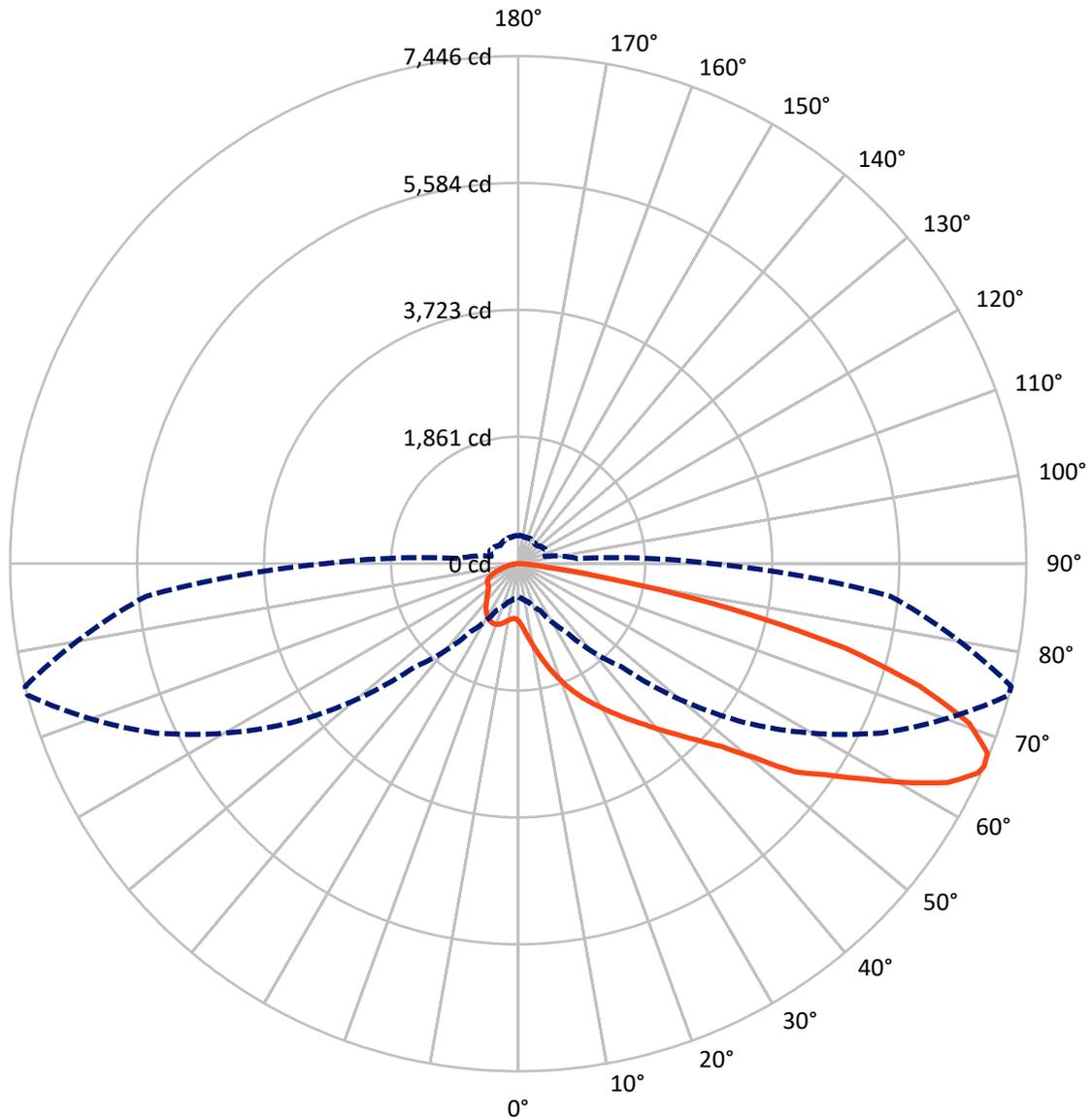
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.4 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	1552.6	0.0	1552.6
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	7674.4	0.0	7674.4
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	9227.0	0.0	9227.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.9	1.1
10°-20°	402.4	4.4
20°-30°	781.9	8.5
30°-40°	1276.3	13.8
40°-50°	1743.7	18.9
50°-60°	2031.1	22.0
60°-70°	1820.9	19.7
70°-80°	920.2	10.0
80°-90°	148.6	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°	9227.0	100.0
0°-180°	9227.0	100.0



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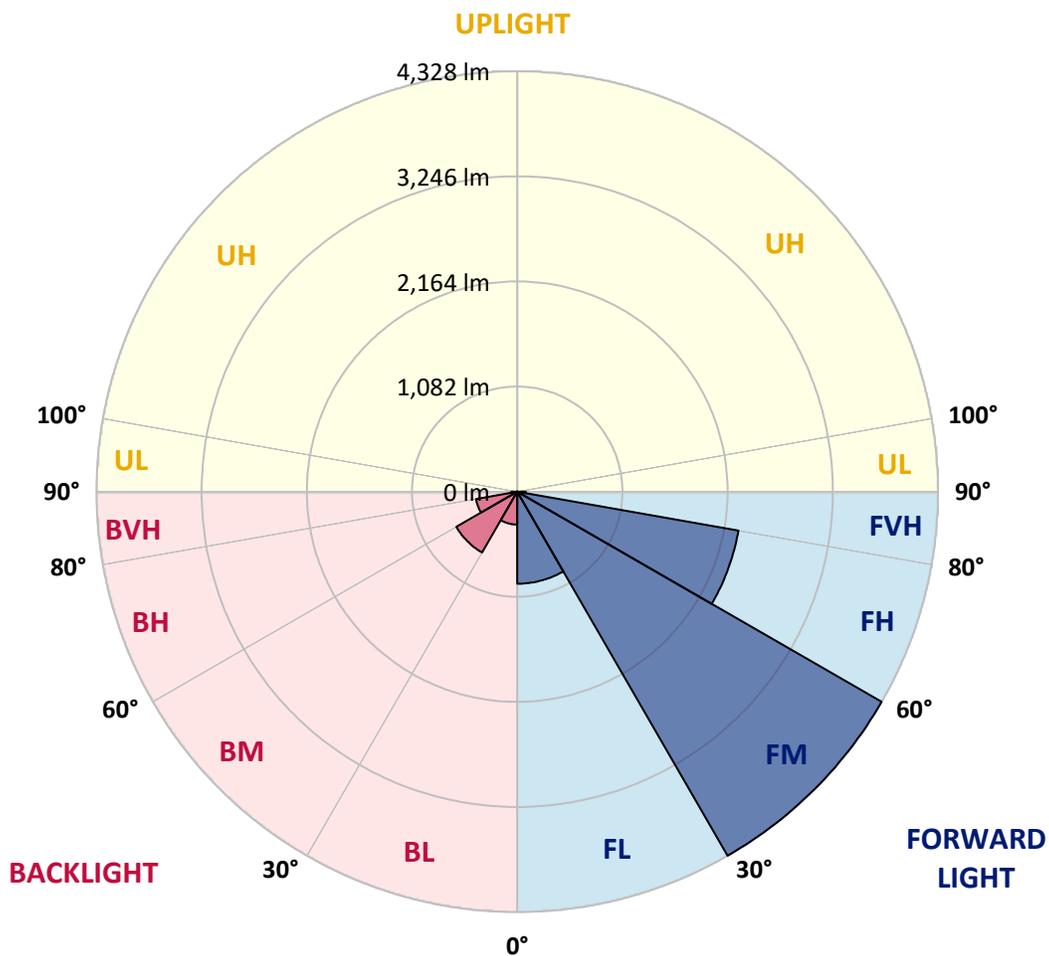
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	947.6	10.3			
FM	(30°-60°)	4328.1	46.9			
FH	(60°-80°)	2311.0	25.0			G2/5000
FVH	(80°-90°)	87.8	1.0			G1/100
BL	(0°-30°)	338.6	3.7	B1/500		
BM	(30°-60°)	723.0	7.8	B1/1000		
BH	(60°-80°)	430.1	4.7	B1/500		G1/500
BVH	(80°-90°)	60.8	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	842.6	842.6	842.6	842.6	842.6	842.6	842.6	842.6	842.6	842.6	842.6
2.5°	1118.6	1101.7	1100.1	1075.4	1069.7	1022.4	987.7	951.3	910.0	901.8	869.3
5°	1436.9	1435.3	1413.7	1373.3	1341.6	1260.8	1180.9	1096.4	1003.6	988.6	915.3
7.5°	1723.2	1720.7	1704.1	1660.5	1614.8	1515.5	1401.5	1271.8	1121.4	1099.2	977.6
10°	1940.6	1939.6	1934.0	1902.0	1863.2	1768.0	1642.0	1465.1	1258.3	1227.9	1055.6
12.5°	2108.5	2110.3	2114.1	2102.8	2084.3	2003.2	1874.2	1669.9	1404.3	1374.2	1142.4
15°	2222.2	2227.8	2247.2	2263.2	2272.9	2223.1	2098.1	1879.5	1567.8	1531.8	1238.6
17.5°	2279.5	2285.8	2319.3	2367.5	2412.0	2407.0	2307.7	2079.3	1724.7	1690.0	1341.9
20°	2329.0	2333.7	2371.3	2429.2	2507.9	2542.6	2486.9	2271.7	1896.7	1855.4	1451.6
22.5°	2472.5	2478.4	2489.7	2522.6	2592.1	2656.0	2629.1	2453.7	2054.3	2015.7	1555.6
25°	2749.4	2756.6	2732.1	2704.3	2717.4	2761.9	2766.9	2619.7	2214.0	2170.5	1667.4
27.5°	3083.0	3093.3	3051.6	2979.9	2917.3	2900.0	2894.1	2755.6	2366.6	2316.1	1778.0
30°	3409.7	3427.5	3373.4	3280.3	3165.4	3084.5	3024.7	2888.8	2516.9	2468.7	1882.3
32.5°	3728.9	3721.7	3643.1	3552.2	3417.5	3316.3	3171.6	3031.6	2686.1	2630.6	1986.0
35°	3947.5	3950.0	3877.1	3769.3	3640.9	3563.2	3368.3	3185.7	2858.7	2807.6	2103.8
37.5°	4133.6	4122.0	4039.3	3938.8	3828.2	3795.0	3598.6	3355.5	3045.7	2989.9	2229.1
40°	4195.6	4182.2	4128.0	4055.6	3967.0	3964.1	3852.6	3547.8	3257.1	3202.0	2370.3
42.5°	4158.0	4140.8	4118.6	4098.8	4071.6	4084.1	4091.3	3773.4	3489.6	3427.9	2533.9
45°	4019.3	3993.3	4008.9	4051.8	4111.0	4181.8	4306.8	4023.0	3749.9	3698.2	2725.9
47.5°	3805.9	3782.5	3831.3	3923.1	4084.1	4263.3	4510.8	4298.7	4060.6	4009.2	2999.3
50°	3505.9	3512.7	3582.6	3749.6	3993.0	4300.9	4762.0	4663.6	4512.3	4464.4	3372.4
52.5°	3013.4	3014.7	3211.4	3485.5	3831.3	4281.5	4901.4	5130.0	5129.1	5071.1	3727.6
55°	2556.1	2584.0	2739.7	3104.0	3569.4	4203.8	4998.8	5356.8	5534.1	5466.2	4058.7
57.5°	2109.4	2125.7	2273.2	2639.1	3195.7	3996.7	5098.7	5629.0	6000.9	5957.9	4470.3
60°	1601.3	1626.4	1778.9	2116.9	2717.7	3629.3	5108.1	5913.2	6558.8	6515.5	4929.9
62.5°	1039.4	1082.6	1225.4	1542.1	2139.5	3100.8	4890.1	6098.9	7087.5	7072.2	5337.7
65°	597.4	629.9	729.2	973.6	1476.0	2437.4	4371.7	6027.5	7413.0	7404.2	5490.3
66°	488.0	508.4	584.5	760.9	1217.9	2140.4	4070.3	5876.8	7445.2	7445.6	5472.7
67.5°	390.3	399.4	433.5	544.7	898.7	1696.5	3531.9	5544.5	7405.1	7416.1	5359.6
70°	323.0	327.7	338.3	365.2	490.5	1023.1	2506.9	4680.8	7002.6	7011.1	4918.3
72.5°	289.8	292.6	296.6	300.4	346.1	571.7	1531.1	3744.5	6139.6	6150.6	4245.7
75°	262.5	264.1	263.4	263.8	290.4	364.3	791.3	2795.7	4964.3	4942.4	3252.4
77.5°	230.5	232.1	229.0	229.6	256.9	280.0	393.8	1957.2	3350.2	3195.4	1832.5
80°	194.8	196.1	194.8	197.0	223.7	211.4	229.0	1101.1	1481.3	1401.2	651.6
82.5°	147.2	152.6	156.3	165.1	184.2	150.4	153.2	428.8	451.1	429.5	199.9
85°	64.5	78.6	117.8	126.2	138.5	90.2	100.6	174.8	183.6	177.9	72.7
87.5°	16.9	18.5	58.3	73.3	76.7	40.7	52.3	79.6	84.0	79.6	24.1
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°	842.6	842.6	842.6	842.6	842.6	842.6	842.6	842.6	842.6	842.6	842.6
2.5°	852.0	836.7	809.1	784.7	766.2	753.7	741.1	734.9	731.1	727.4	728.0
5°	879.3	848.3	801.0	767.5	748.7	736.8	730.5	728.0	726.4	722.7	722.7
7.5°	920.3	876.5	811.3	776.9	762.1	753.0	749.3	748.0	746.2	741.8	742.4
10°	972.0	910.6	832.9	799.4	785.9	775.9	770.6	768.7	765.3	760.2	760.9
12.5°	1032.8	952.9	861.4	826.3	810.1	796.6	787.8	782.5	776.5	770.0	770.3
15°	1099.2	998.9	892.1	850.5	828.2	809.4	795.3	786.2	776.9	768.7	768.4
17.5°	1166.5	1043.4	915.6	863.6	833.5	808.8	789.7	775.6	764.0	754.0	753.0
20°	1239.2	1083.5	928.8	862.4	823.5	794.1	768.7	751.2	738.3	728.3	726.7
22.5°	1313.1	1121.1	931.0	849.5	801.3	765.3	738.6	719.2	706.1	695.7	692.0
25°	1380.8	1150.2	921.9	824.8	770.3	731.4	705.4	685.7	675.0	662.8	659.1
27.5°	1442.5	1170.6	903.7	793.1	735.5	697.3	672.9	655.9	644.3	635.0	631.8
30°	1497.9	1181.6	874.0	755.6	699.8	665.0	644.3	632.8	622.7	610.8	608.6
32.5°	1550.6	1181.6	835.7	714.5	664.4	636.5	624.3	617.1	605.8	594.2	591.1
35°	1603.2	1174.4	790.6	671.6	631.8	616.2	615.5	607.1	589.8	574.2	570.1
37.5°	1658.6	1159.6	739.9	631.5	605.2	607.1	612.4	593.6	569.2	546.9	541.0
40°	1721.3	1139.3	687.3	596.7	583.0	603.0	603.9	574.2	526.6	506.2	500.9
42.5°	1794.9	1118.9	638.4	566.0	565.4	590.8	588.0	532.2	503.7	493.4	490.5
45°	1891.7	1107.3	592.0	536.9	551.6	571.0	560.7	509.0	497.1	491.2	488.7
47.5°	2044.2	1113.3	549.4	513.7	537.8	551.3	510.0	499.6	491.2	484.0	481.5
50°	2235.3	1109.8	515.0	497.7	522.2	530.6	487.1	487.4	483.0	474.9	471.1
52.5°	2379.1	1082.9	492.7	488.7	508.4	494.0	472.7	475.5	473.3	461.4	457.3
55°	2517.9	1059.7	481.5	485.2	498.4	448.3	455.8	462.7	460.5	448.9	447.0
57.5°	2690.5	1055.3	474.6	486.2	489.9	425.4	439.5	448.6	447.0	442.0	441.1
60°	2901.9	1056.6	468.3	487.7	480.5	408.5	424.1	435.7	436.7	435.7	435.1
62.5°	3018.1	1022.4	452.6	483.3	463.9	393.8	408.2	425.1	425.4	427.3	427.0
65°	2919.5	920.3	423.5	468.0	436.0	381.5	394.4	412.9	408.2	416.6	416.6
66°	2823.6	861.4	409.1	458.0	424.1	376.8	390.0	406.6	400.6	412.2	412.2
67.5°	2627.8	762.1	383.1	436.7	407.2	370.3	385.0	396.3	388.1	405.3	404.1
70°	2270.1	589.5	330.8	388.4	379.3	360.5	378.1	375.6	363.7	390.0	385.0
72.5°	1913.9	447.9	265.6	325.1	337.1	348.3	368.4	349.3	334.2	352.7	341.8
75°	1485.1	336.7	209.9	252.8	284.7	329.2	356.8	318.9	297.3	295.4	289.4
77.5°	802.9	231.2	166.3	193.0	226.2	305.4	349.0	286.3	253.7	246.2	241.5
80°	317.9	150.4	120.9	146.3	158.2	271.0	330.2	248.4	209.2	201.7	194.5
82.5°	131.3	89.0	78.0	98.0	103.1	231.8	296.3	203.6	161.6	223.7	237.4
85°	56.4	48.9	46.4	50.7	58.3	162.6	235.9	155.4	174.5	155.7	123.7
87.5°	16.9	20.7	19.7	19.4	21.3	38.8	125.6	86.5	128.1	48.6	36.3
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)