

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: P1209169

Luminaire Tested: UPW-SA2-090-827-U-T4W-HSS

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209169  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-090-827-U-T4W-HSS  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6354 lumens  
Efficiency: N/A  
Efficacy: 74.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

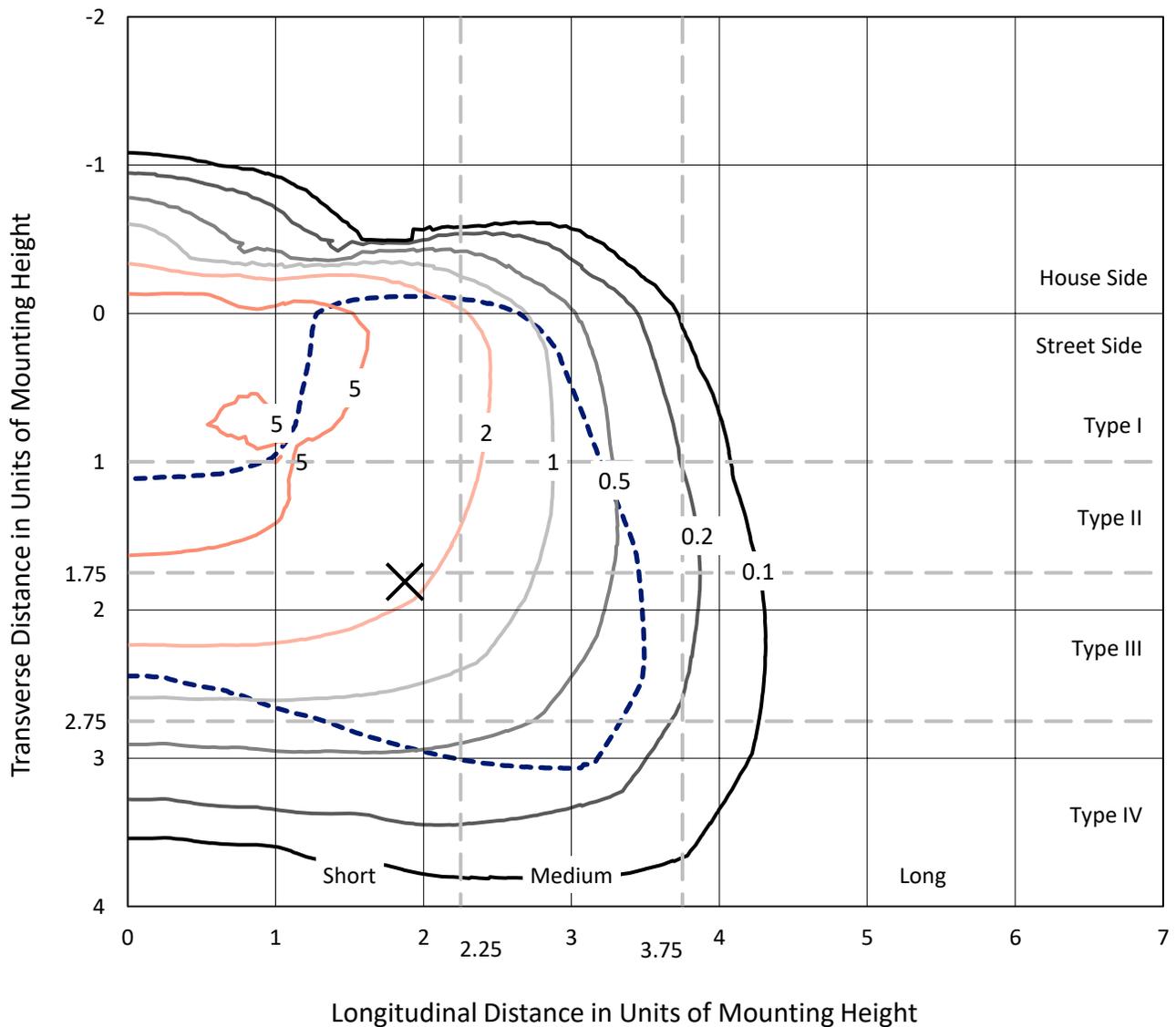
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P1209169  
 CATALOG NUMBER: UPW-SA2-090-827-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

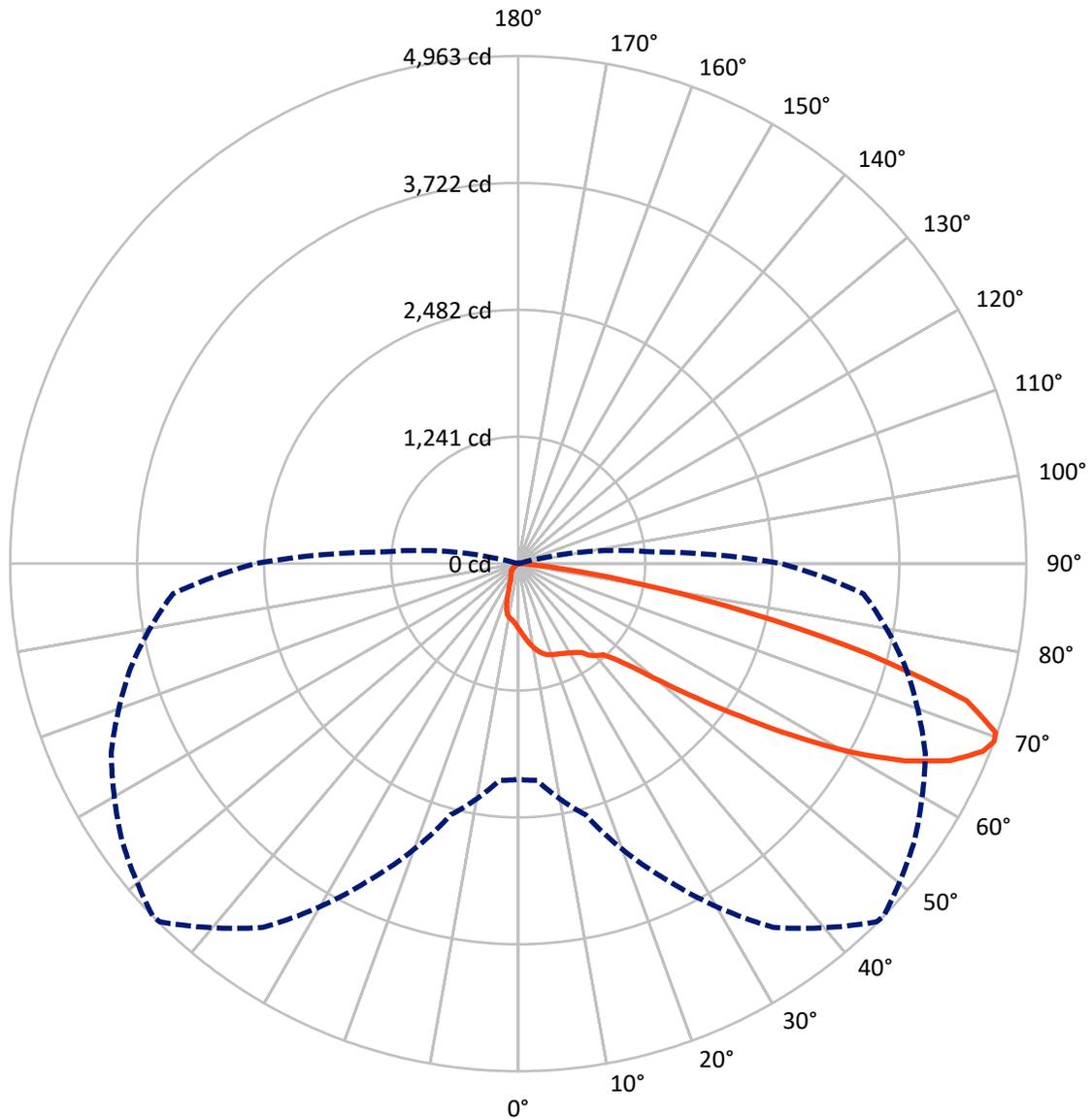
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 fc  
 Type IV - Short - N/A

REPORT NUMBER: P1209169  
CATALOG NUMBER: UPW-SA2-090-827-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P1209169

CATALOG NUMBER: UPW-SA2-090-827-U-T4W-HSS

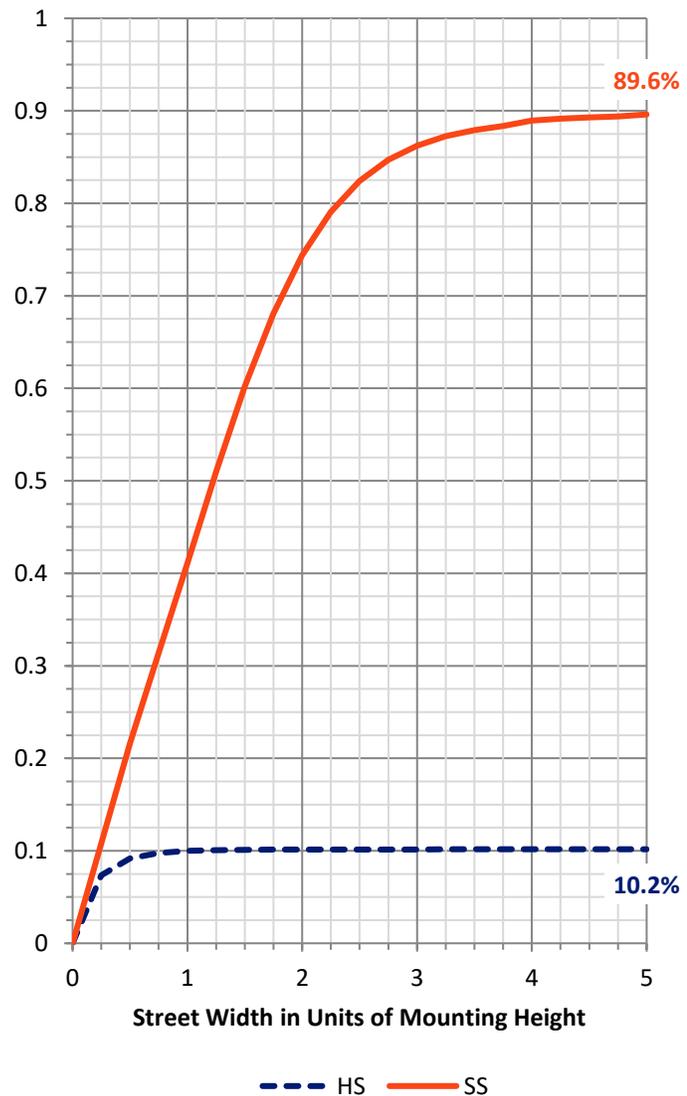
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	652.1	0.0	652.1
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	5701.9	0.0	5701.9
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	6354.0	0.0	6354.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.4	1.0
10°-20°	192.2	3.0
20°-30°	302.3	4.8
30°-40°	433.6	6.8
40°-50°	749.3	11.8
50°-60°	1480.4	23.3
60°-70°	2069.0	32.6
70°-80°	999.5	15.7
80°-90°	64.2	1.0
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°	6354.0	100.0
0°-180°	6354.0	100.0



REPORT NUMBER: P1209169

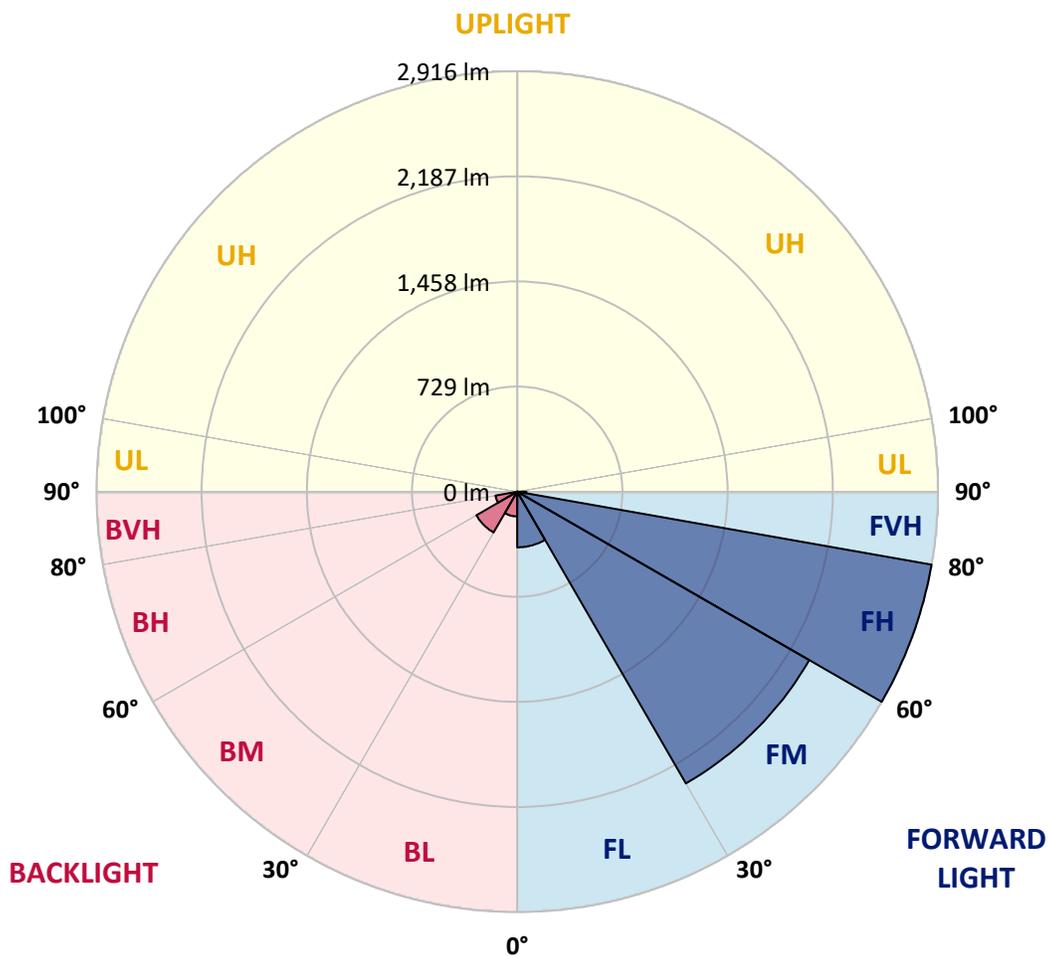
CATALOG NUMBER: UPW-SA2-090-827-U-T4W-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	386.1	6.1			
FM	(30°-60°)	2336.5	36.8			
FH	(60°-80°)	2915.6	45.9			G2/5000
FVH	(80°-90°)	63.7	1.0			G1/100
BL	(0°-30°)	171.9	2.7	B1/500		
BM	(30°-60°)	326.8	5.1	B1/1000		
BH	(60°-80°)	152.9	2.4	B1/500		G1/500
BVH	(80°-90°)	0.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





REPORT NUMBER: P1209169

CATALOG NUMBER: UPW-SA2-090-827-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6
2.5°	707.3	706.4	702.2	700.4	690.3	684.3	681.9	674.5	663.8	653.0	641.1
5°	787.7	787.4	779.6	772.2	753.1	735.3	732.0	714.7	690.6	667.9	645.3
7.5°	869.9	866.0	858.3	844.0	816.3	787.7	785.0	760.6	726.3	693.5	661.1
10°	939.6	937.2	927.1	905.4	872.9	840.4	837.1	807.1	768.3	728.1	686.7
12.5°	993.8	992.1	978.7	951.5	917.0	883.3	878.9	852.0	810.6	765.6	716.8
15°	1026.9	1026.0	1009.6	980.7	946.8	917.6	913.7	890.2	851.7	804.7	749.6
17.5°	1034.7	1035.0	1018.0	988.8	960.8	939.9	936.9	919.1	886.9	840.1	782.3
20°	1017.4	1021.0	1005.8	980.4	963.2	952.1	949.8	939.0	911.9	867.8	808.5
22.5°	993.0	994.7	984.3	967.3	960.2	962.3	961.1	955.1	932.2	891.7	834.5
25°	978.1	978.1	971.8	957.5	962.3	975.1	975.4	974.2	956.0	920.9	866.0
27.5°	977.5	975.7	968.5	957.8	970.9	990.6	991.8	999.8	988.5	956.3	905.4
30°	1001.3	999.2	984.0	970.0	986.7	1007.9	1010.8	1028.4	1022.7	994.7	949.2
32.5°	1057.0	1049.6	1015.9	993.0	1005.5	1030.8	1034.7	1062.7	1071.6	1042.1	991.5
35°	1133.3	1109.7	1061.2	1036.5	1037.6	1064.2	1067.7	1108.8	1135.4	1085.6	1024.2
37.5°	1238.4	1226.8	1147.9	1081.7	1087.1	1127.3	1137.7	1182.4	1175.0	1109.4	1061.5
40°	1469.0	1450.9	1366.8	1208.6	1134.5	1178.6	1181.8	1205.7	1206.3	1163.4	1138.9
42.5°	1783.0	1775.6	1687.1	1438.9	1227.7	1212.8	1218.8	1259.0	1304.0	1277.2	1276.0
45°	2130.7	2126.8	2033.0	1744.6	1416.3	1325.1	1332.6	1386.5	1472.6	1478.6	1516.4
47.5°	2410.4	2408.7	2354.7	2085.7	1705.0	1515.5	1517.9	1575.1	1726.4	1801.2	1861.7
50°	2665.5	2674.1	2631.5	2454.8	2098.2	1813.7	1808.1	1846.2	2089.3	2211.7	2286.8
52.5°	3020.0	3032.2	2912.7	2799.2	2510.8	2183.7	2179.3	2219.2	2525.4	2617.2	2630.6
55°	3333.1	3312.2	3217.8	3185.0	3014.0	2640.7	2639.5	2674.7	2947.3	2986.3	3011.0
57.5°	3471.3	3463.3	3508.9	3583.9	3541.0	3180.9	3178.2	3151.4	3324.7	3328.9	3404.9
60°	3558.6	3568.4	3708.2	3939.6	4046.6	3762.1	3744.8	3581.3	3685.2	3676.0	3757.3
62.5°	3493.1	3512.4	3763.9	4149.7	4425.0	4269.4	4245.0	3975.1	3993.3	3961.4	4037.1
65°	3145.1	3175.2	3587.2	4110.1	4612.6	4666.0	4641.2	4322.8	4237.9	4185.4	4143.4
67.5°	2553.7	2571.6	3001.8	3765.4	4528.0	4902.5	4897.4	4627.5	4422.6	4147.6	3821.7
69°	2110.4	2128.0	2542.1	3402.5	4341.8	4953.2	4963.0	4725.2	4387.4	3917.6	3386.1
70°	1787.5	1806.3	2192.1	3091.5	4125.8	4929.6	4947.2	4716.0	4286.7	3651.3	3003.9
72.5°	937.5	953.6	1349.6	2129.8	3363.5	4526.5	4579.9	4317.4	3633.7	2651.8	1776.2
75°	294.6	303.9	527.0	1113.3	2302.9	3519.6	3531.8	3386.7	2580.3	1458.6	739.7
77.5°	112.3	109.6	175.5	410.2	1164.3	2216.2	2291.0	2116.4	1354.0	515.7	170.7
80°	60.5	60.8	91.2	169.8	498.1	1138.9	1202.1	1025.7	481.1	160.9	39.3
82.5°	26.2	27.4	51.2	90.0	228.8	420.1	451.6	376.0	183.8	108.1	14.6
85°	5.7	6.3	24.7	48.9	93.2	118.0	123.6	121.8	117.1	84.0	5.7
87.5°	0.0	0.0	11.0	17.6	23.5	26.8	23.5	30.7	64.6	56.6	3.0
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: P1209169

CATALOG NUMBER: UPW-SA2-090-827-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6
2.5°	637.2	631.9	622.6	612.5	605.4	597.9	592.0	589.3	586.3	584.2	586.9
5°	636.1	625.6	607.7	590.5	578.0	567.8	559.5	556.2	552.9	550.5	550.3
7.5°	646.5	631.9	604.5	579.1	559.8	546.1	534.8	530.0	526.1	524.3	522.8
10°	666.4	647.7	611.0	578.0	552.9	529.7	505.3	486.5	474.3	468.6	466.5
12.5°	692.4	668.8	623.5	584.2	547.9	503.2	451.3	406.7	377.8	368.2	362.6
15°	722.7	693.5	639.9	592.3	529.4	447.8	359.9	301.5	274.7	269.3	263.4
17.5°	751.9	719.8	659.6	593.7	488.9	357.8	263.7	224.0	213.6	217.2	218.1
20°	777.6	745.7	679.0	580.6	415.3	268.4	204.1	194.2	198.1	205.0	206.2
22.5°	803.5	770.7	696.8	546.1	321.2	203.8	183.8	186.2	190.1	196.9	198.1
25°	835.1	801.1	713.5	482.6	241.0	173.4	174.6	178.2	182.0	188.3	188.9
27.5°	871.4	839.5	724.5	400.1	178.7	159.4	163.3	168.6	172.5	178.5	179.6
30°	919.7	890.2	728.1	314.6	149.9	146.9	148.7	155.2	160.9	166.2	167.1
32.5°	965.0	940.2	716.2	237.4	138.8	135.3	135.3	139.1	145.7	150.7	151.9
35°	1006.7	990.6	678.1	173.7	130.5	124.5	121.5	121.5	125.7	129.9	131.1
37.5°	1061.8	1061.2	616.4	138.5	122.4	115.6	109.3	104.6	103.1	104.0	104.6
40°	1156.2	1157.1	536.0	124.2	115.6	106.4	96.8	88.2	80.1	77.5	77.2
42.5°	1303.7	1290.3	451.6	117.4	109.6	96.8	82.5	70.9	58.4	54.5	54.2
45°	1537.8	1458.3	362.3	111.1	103.4	86.1	68.2	52.4	42.3	39.3	39.3
47.5°	1879.0	1679.1	280.6	104.3	95.0	73.9	51.5	37.8	31.0	29.5	29.8
50°	2231.7	1895.3	215.1	95.6	84.9	61.1	38.1	27.4	23.5	23.5	23.8
52.5°	2544.5	2053.8	167.7	86.4	72.4	48.0	28.9	21.4	19.7	19.4	19.7
55°	2837.4	2156.0	128.4	75.7	57.5	35.7	22.0	17.6	16.4	15.8	15.5
57.5°	3119.8	2206.7	96.2	61.1	41.7	25.9	17.6	14.9	13.7	12.8	12.5
60°	3307.8	2165.6	66.1	45.0	28.9	18.8	14.6	12.8	11.3	10.4	10.1
62.5°	3413.8	2053.2	42.6	32.5	20.6	14.0	11.6	10.7	8.6	7.7	7.7
65°	3370.9	1867.9	29.8	23.2	14.9	10.4	8.6	8.6	6.3	5.1	4.8
67.5°	2987.2	1578.1	22.6	17.3	10.7	7.7	6.6	7.4	3.9	2.4	2.4
69°	2570.1	1307.9	19.4	14.3	8.9	6.3	5.7	6.9	2.7	1.8	1.5
70°	2233.8	1128.2	17.6	12.5	7.4	5.4	5.1	6.6	2.7	1.5	1.2
72.5°	1336.5	629.2	13.4	8.9	4.8	4.2	4.2	7.4	2.7	1.5	1.2
75°	540.1	221.6	9.8	6.3	3.6	3.6	5.1	9.5	2.4	1.2	0.9
77.5°	122.4	48.6	5.7	3.9	2.4	3.6	6.0	7.4	1.5	0.6	0.0
80°	29.8	11.9	3.6	2.4	1.5	2.7	4.5	4.2	0.3	0.0	0.0
82.5°	9.8	4.2	1.5	1.2	0.3	0.9	2.1	1.2	0.0	0.0	0.0
85°	4.2	2.4	0.6	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0
87.5°	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)