

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: P1209152

Luminaire Tested: UPW-SA2-090-827-U-SL4-HSS

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209152  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-6)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-090-827-U-SL4-HSS  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6388 lumens  
Efficiency: N/A  
Efficacy: 75.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

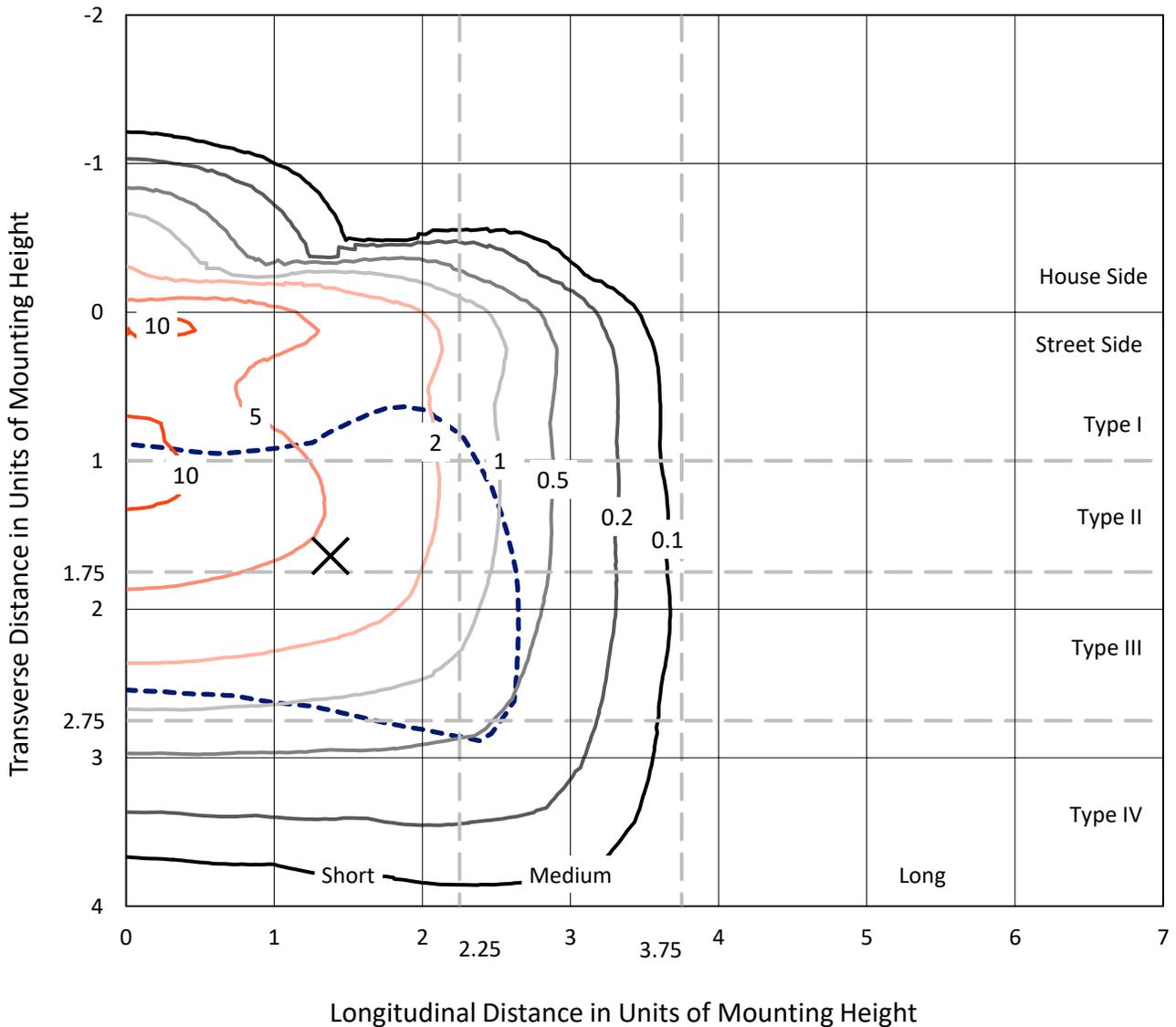
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

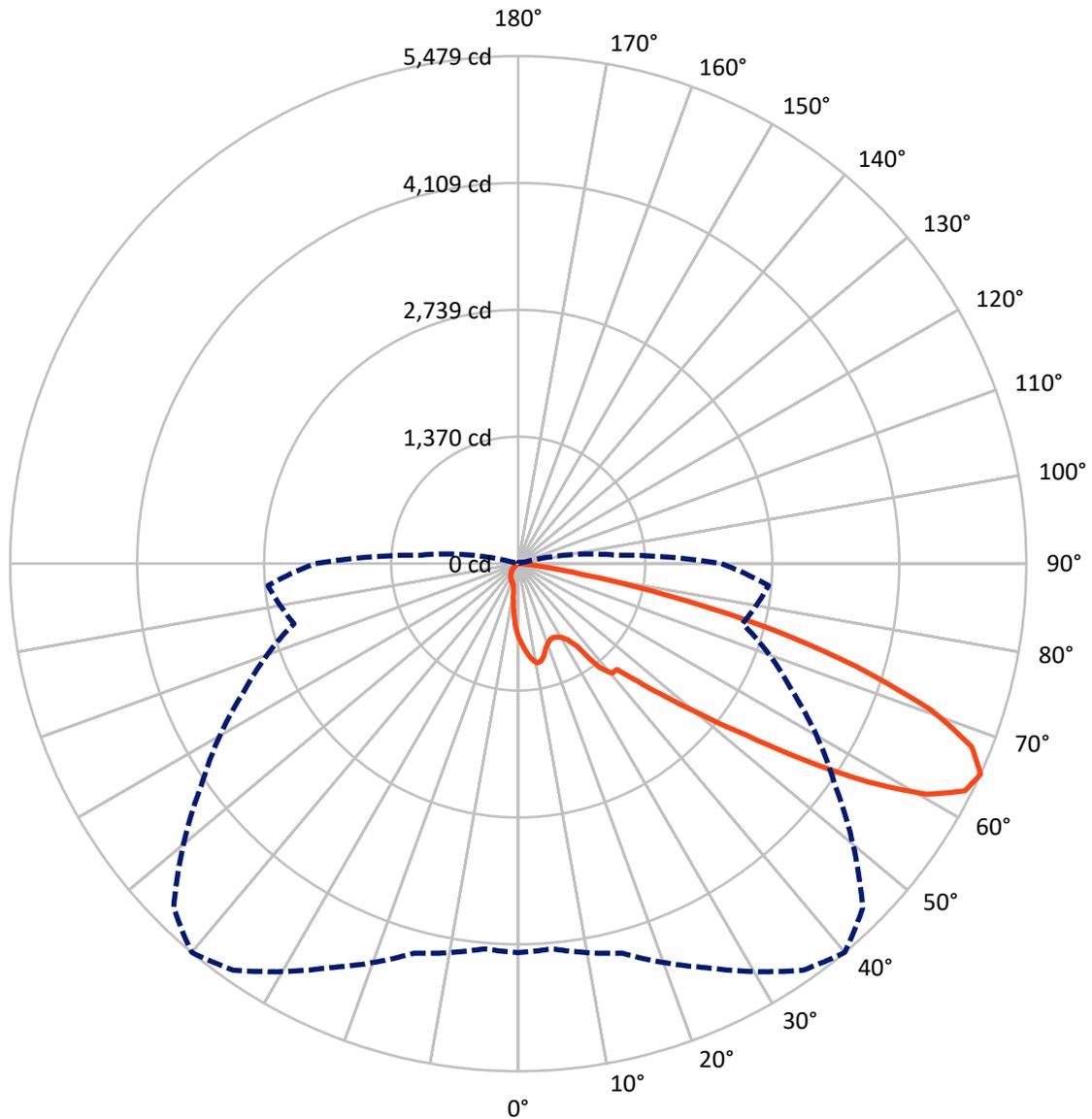
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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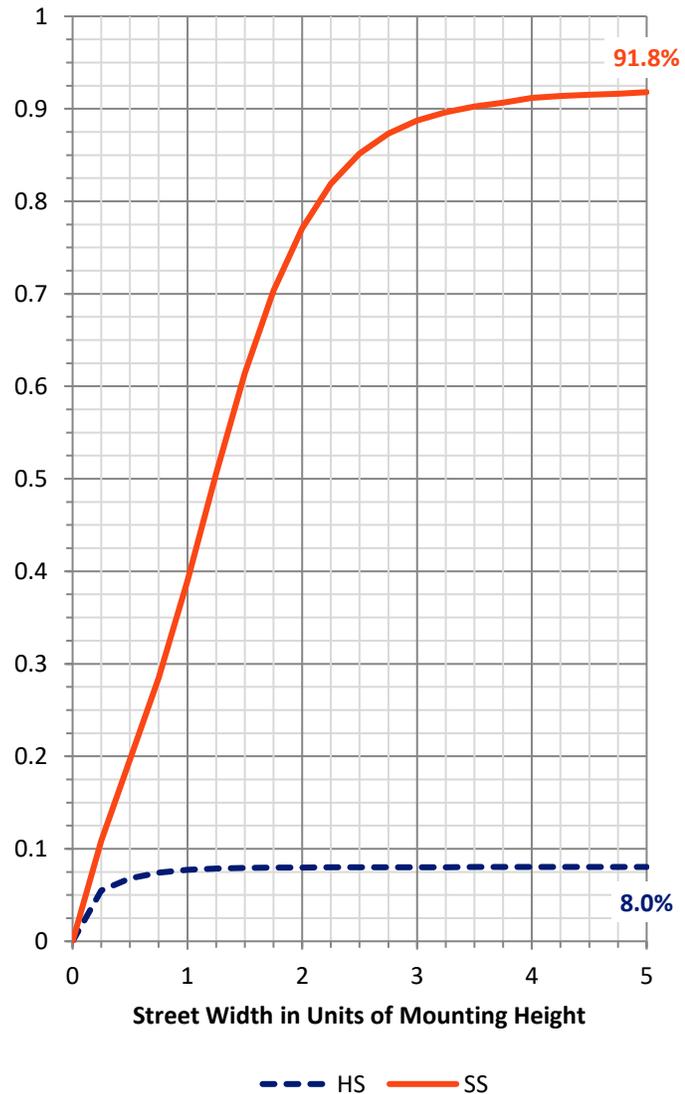
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	517.0	0.0	517.0
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	5871.0	0.0	5871.0
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	6388.0	0.0	6388.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.2	1.1
10°-20°	205.8	3.2
20°-30°	321.1	5.0
30°-40°	532.2	8.3
40°-50°	902.4	14.1
50°-60°	1589.4	24.9
60°-70°	1979.7	31.0
70°-80°	744.0	11.6
80°-90°	40.3	0.6
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°	6388.0	100.0
0°-180°	6388.0	100.0



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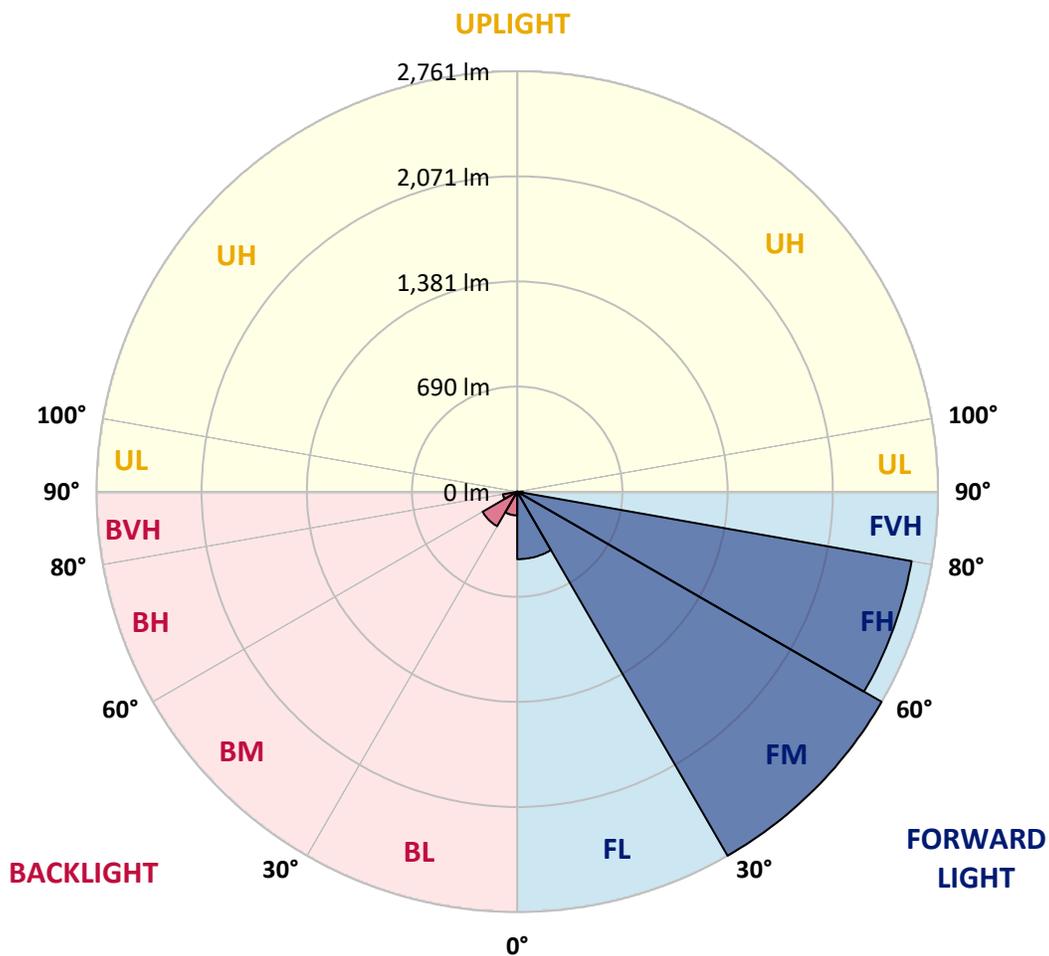
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	443.6	6.9			
FM	(30°-60°)	2761.4	43.2			
FH	(60°-80°)	2628.3	41.1			G2/5000
FVH	(80°-90°)	37.6	0.6			G1/100
BL	(0°-30°)	156.4	2.4	B1/500		
BM	(30°-60°)	262.5	4.1	B1/1000		
BH	(60°-80°)	95.4	1.5	B0/110		G0/110
BVH	(80°-90°)	2.6	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7
2.5°	903.1	895.6	893.7	889.9	880.5	879.6	877.7	860.8	848.5	836.3	817.5
5°	990.6	984.9	980.2	979.3	972.7	964.3	962.4	938.9	916.3	890.9	851.4
7.5°	1054.6	1048.9	1048.9	1048.9	1041.4	1038.6	1038.6	1014.1	992.5	953.9	900.3
10°	1067.7	1064.0	1067.7	1077.1	1086.5	1090.3	1094.1	1088.4	1070.6	1028.2	963.3
12.5°	1034.8	1031.0	1034.8	1048.9	1066.8	1084.7	1108.2	1138.3	1144.9	1115.7	1031.0
15°	1001.9	997.2	989.7	986.8	1005.6	1032.9	1064.9	1146.8	1207.0	1198.5	1109.1
17.5°	981.2	980.2	962.4	937.9	939.8	960.5	1001.9	1112.9	1237.1	1272.8	1181.6
20°	961.4	958.6	938.9	904.0	896.5	915.3	950.1	1065.9	1231.4	1341.5	1256.8
22.5°	951.1	947.3	921.0	879.6	872.1	889.0	920.0	1015.1	1203.2	1381.9	1328.3
25°	963.3	960.5	922.9	874.9	868.3	882.4	909.7	987.8	1166.5	1397.0	1385.7
27.5°	1004.7	999.1	949.2	891.8	883.3	896.5	919.1	978.4	1134.5	1391.3	1431.8
30°	1145.8	1124.2	1049.9	942.6	916.3	924.7	942.6	990.6	1113.8	1383.8	1483.5
32.5°	1419.6	1408.3	1284.1	1089.4	989.7	982.1	994.4	1028.2	1127.9	1423.3	1579.5
35°	1895.6	1881.5	1705.5	1396.0	1138.3	1096.9	1089.4	1118.5	1235.2	1433.7	1595.5
37.5°	2266.2	2253.1	2105.4	1873.0	1555.0	1420.5	1333.0	1320.8	1241.8	1385.7	1615.2
40°	2446.8	2424.3	2207.9	1894.6	1657.6	1556.9	1460.0	1262.5	1174.0	1357.5	1666.0
42.5°	2883.3	2821.3	2566.3	2174.0	1746.0	1561.6	1390.4	1181.6	1198.5	1386.6	1745.1
45°	3368.8	3372.5	3064.0	2542.8	2035.7	1815.6	1601.1	1278.5	1286.0	1461.0	1849.5
47.5°	3928.5	3863.6	3537.2	3010.3	2397.9	2148.6	1908.7	1446.8	1410.2	1580.4	1989.7
50°	4335.8	4294.4	4040.4	3543.7	2844.8	2561.6	2246.5	1699.9	1613.4	1717.8	2131.7
52.5°	4560.7	4551.3	4424.3	4026.3	3397.9	3068.7	2656.6	1996.2	1861.7	1869.2	2237.1
55°	4737.5	4712.1	4706.5	4511.8	4023.5	3733.8	3197.6	2398.9	2176.9	2016.9	2342.4
57.5°	4915.3	4886.2	4910.6	4875.8	4696.1	4446.8	3846.7	2836.3	2451.5	2174.0	2468.5
60°	4918.2	4889.0	4957.7	5104.4	5184.4	5055.5	4505.2	3314.2	2754.5	2334.9	2639.7
62.5°	4691.4	4662.3	4779.9	5085.6	5419.6	5403.6	5016.0	3772.3	3056.4	2495.8	2781.7
65°	4197.6	4174.0	4353.7	4811.8	5356.5	5478.8	5254.0	4170.3	3261.5	2503.3	2708.4
67.5°	3201.3	3243.6	3548.4	4180.6	5029.2	5274.7	5220.1	4274.7	3160.9	2275.6	2429.0
70°	2065.8	2143.0	2483.5	3229.5	4279.4	4717.8	4746.0	3794.9	2645.3	1850.4	1825.0
72.5°	1099.7	1113.8	1428.0	2089.4	3254.0	3829.7	3872.1	2857.0	1810.0	1229.5	996.2
75°	481.7	520.2	699.0	1175.0	2168.4	2806.2	2680.1	1712.1	934.1	562.6	385.7
77.5°	173.1	187.2	271.9	574.8	1223.9	1642.5	1530.6	813.7	377.2	249.3	112.9
80°	83.7	84.7	109.1	219.2	511.8	692.4	602.1	287.9	172.2	140.2	44.2
82.5°	28.2	34.8	62.1	86.5	190.0	236.1	174.0	107.2	102.5	106.3	31.0
85°	0.0	0.9	31.0	47.0	48.9	55.5	44.2	47.0	63.0	64.0	10.3
87.5°	0.0	0.0	0.0	9.4	10.3	10.3	5.6	11.3	26.3	31.0	1.9
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°	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7
2.5°	806.2	794.9	772.3	753.5	728.1	710.3	691.4	683.0	677.3	653.8	651.9
5°	829.7	804.3	752.6	696.1	640.6	586.1	534.3	505.2	479.8	469.4	457.2
7.5°	864.5	826.0	734.7	637.8	533.4	448.7	391.3	359.4	333.0	328.3	324.6
10°	912.5	854.2	719.7	562.6	415.8	335.8	288.8	268.1	259.6	257.8	254.9
12.5°	965.2	889.9	702.7	475.1	325.5	257.8	238.0	238.0	242.7	244.6	244.6
15°	1032.9	931.3	670.7	397.0	261.5	225.8	224.8	228.6	233.3	235.2	236.1
17.5°	1092.2	974.6	630.3	325.5	224.8	214.5	216.4	219.2	223.9	227.7	227.7
20°	1156.2	1014.1	588.9	268.1	207.0	204.1	206.0	209.8	215.4	218.3	219.2
22.5°	1212.6	1045.2	540.9	230.5	194.7	194.7	197.6	201.3	207.9	212.6	212.6
25°	1259.6	1069.6	489.2	205.1	183.4	184.4	187.2	192.9	199.4	204.1	205.1
27.5°	1296.3	1081.8	429.9	184.4	172.2	172.2	176.9	183.4	191.9	197.6	197.6
30°	1343.4	1100.7	384.8	169.3	159.9	159.9	163.7	172.2	183.4	191.0	191.0
32.5°	1413.9	1133.6	336.8	156.2	148.6	148.6	152.4	159.9	171.2	180.6	182.5
35°	1425.2	1118.5	287.9	145.8	138.3	137.3	139.2	145.8	155.2	161.8	164.6
37.5°	1443.1	1118.5	241.8	134.5	127.9	127.0	127.9	130.8	134.5	136.4	135.5
40°	1482.6	1126.1	203.2	125.1	118.5	116.7	115.7	114.8	111.0	106.3	105.4
42.5°	1544.7	1145.8	170.3	114.8	108.2	106.3	103.5	96.9	88.4	81.8	81.8
45°	1619.0	1163.7	143.0	106.3	98.8	96.9	88.4	78.1	67.7	63.0	63.0
47.5°	1710.3	1185.3	121.4	98.8	91.3	86.5	72.4	60.2	51.7	49.9	49.9
50°	1815.6	1198.5	102.5	90.3	83.7	75.3	57.4	47.0	40.5	39.5	39.5
52.5°	1889.0	1197.6	87.5	82.8	76.2	63.0	46.1	37.6	32.9	31.0	31.0
55°	1959.5	1184.4	73.4	73.4	65.9	50.8	37.6	31.0	26.3	24.5	23.5
57.5°	2045.2	1177.8	63.0	61.1	53.6	41.4	31.0	25.4	20.7	16.9	16.0
60°	2181.6	1189.1	52.7	48.9	42.3	32.9	25.4	19.8	15.1	10.3	9.4
62.5°	2272.8	1177.8	43.3	39.5	33.9	26.3	18.8	14.1	8.5	5.6	4.7
65°	2188.1	1051.7	36.7	32.0	27.3	20.7	14.1	9.4	3.8	0.9	0.0
67.5°	1891.8	840.1	31.0	26.3	21.6	16.0	10.3	5.6	0.9	0.0	0.0
70°	1375.4	566.3	27.3	21.6	16.9	13.2	7.5	2.8	0.0	0.0	0.0
72.5°	719.7	266.2	24.5	19.8	15.1	10.3	5.6	1.9	0.0	0.0	0.0
75°	252.1	96.0	22.6	18.8	13.2	8.5	4.7	1.9	0.0	0.0	0.0
77.5°	79.0	43.3	22.6	19.8	14.1	8.5	4.7	1.9	0.0	0.0	0.0
80°	35.7	28.2	20.7	18.8	13.2	8.5	4.7	0.9	0.0	0.0	0.0
82.5°	25.4	22.6	19.8	16.9	12.2	7.5	3.8	0.9	0.0	0.0	0.0
85°	9.4	7.5	7.5	9.4	8.5	4.7	1.9	0.0	0.0	0.0	0.0
87.5°	0.9	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)