

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: P1208997

Luminaire Tested: UPW-SA2-090-727-U-T2-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1208997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-727-U-T2-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7095 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

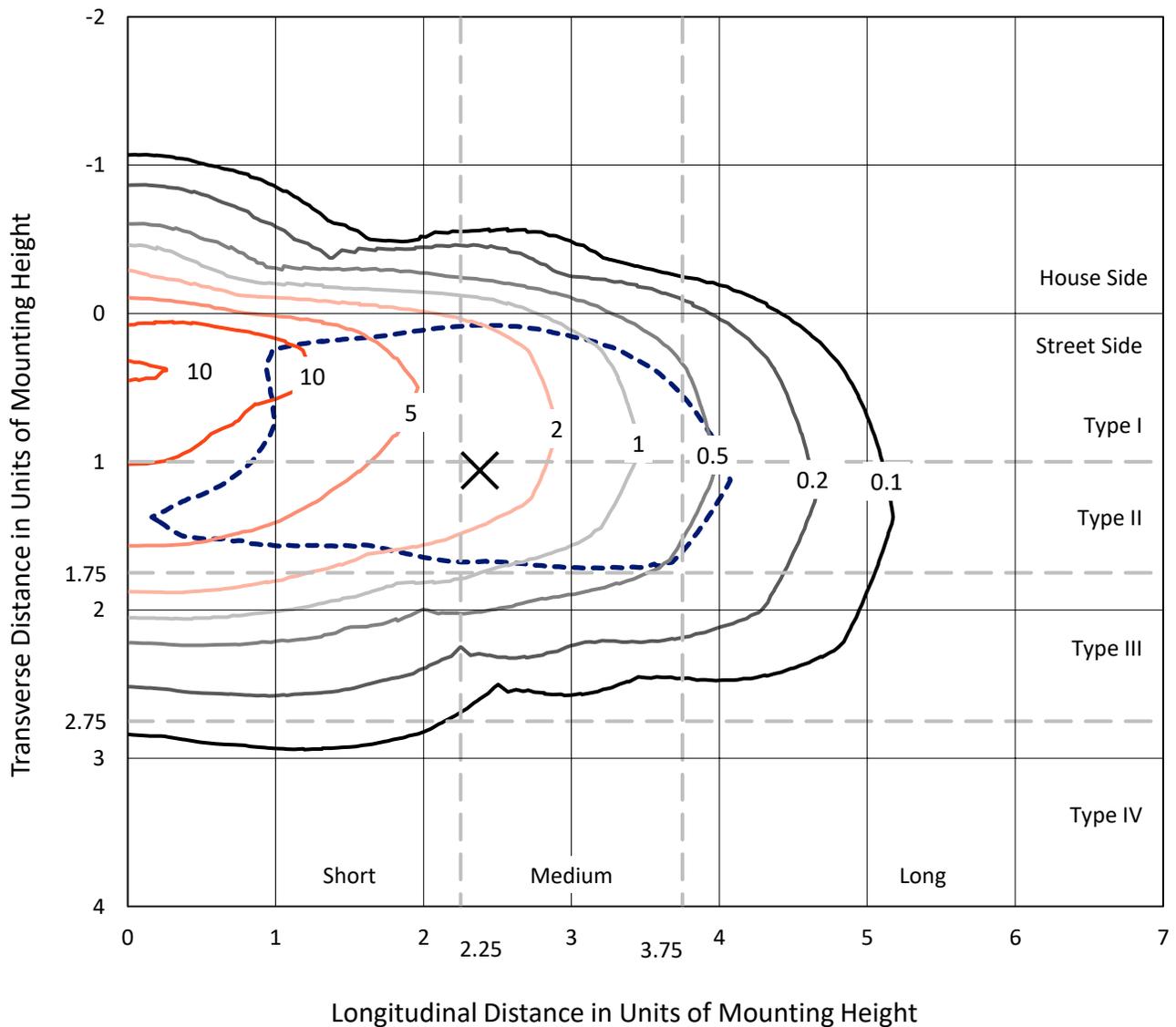
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

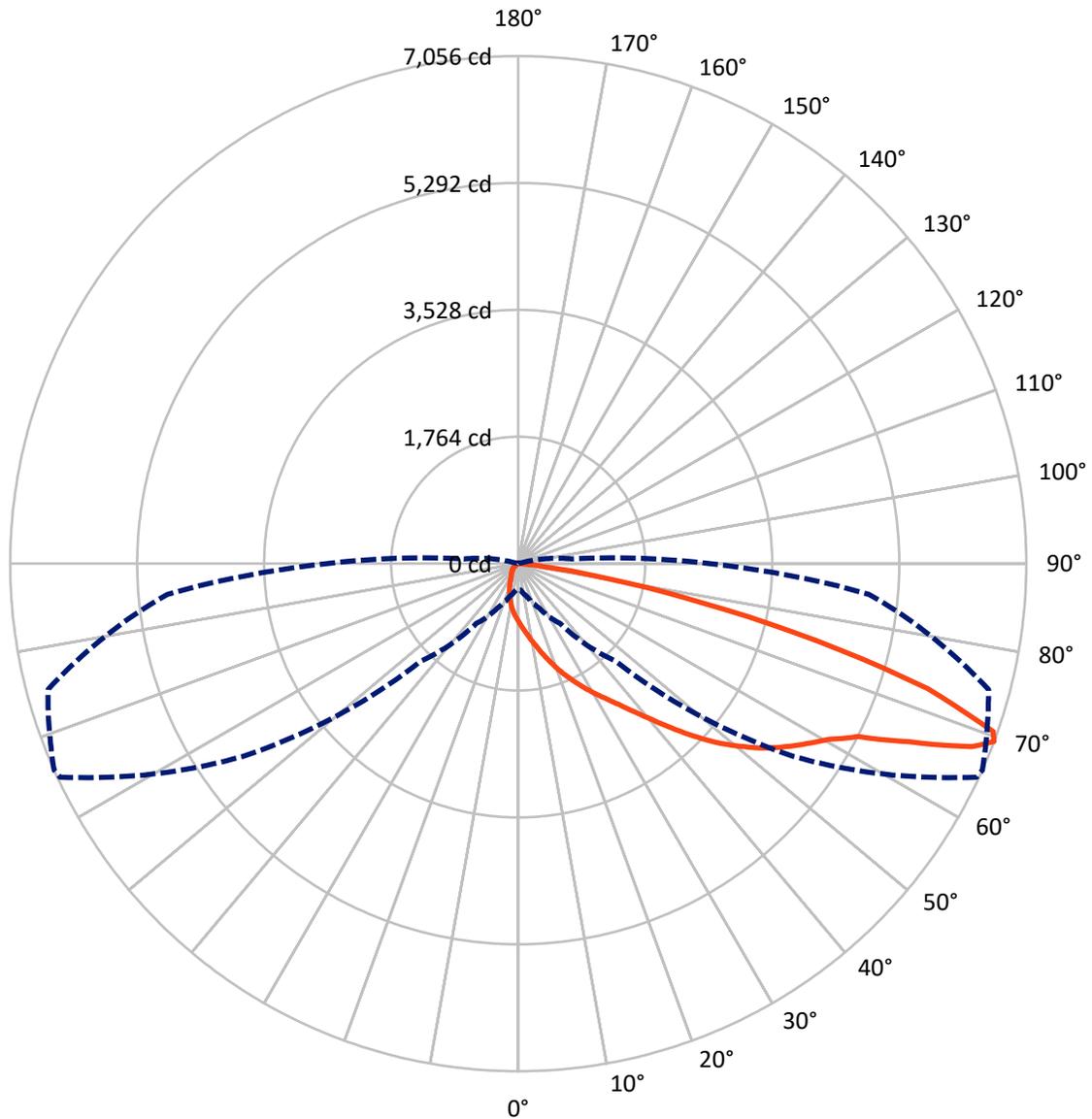
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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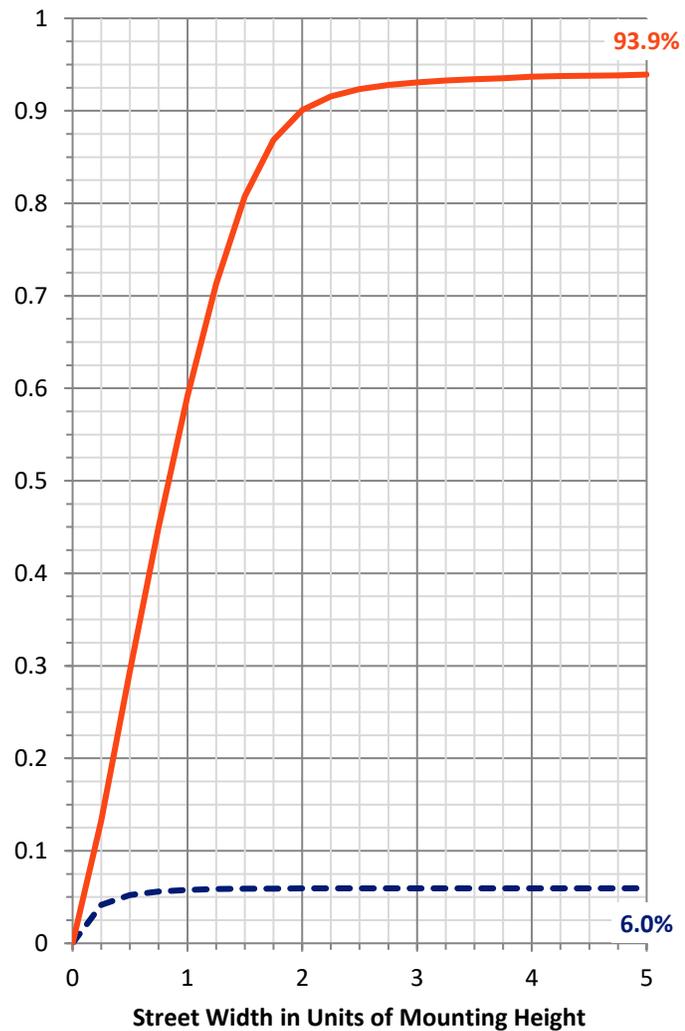
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	425.6	0.0	425.6
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	6669.4	0.0	6669.4
	% Fixture	94.0	0.0	94.0
Total	Lumens	7095.0	0.0	7095.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	1.1
10°-20°	232.3	3.3
20°-30°	404.5	5.7
30°-40°	709.7	10.0
40°-50°	1187.9	16.7
50°-60°	1746.1	24.6
60°-70°	1792.8	25.3
70°-80°	885.1	12.5
80°-90°	58.5	0.8
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°	7095.0	100.0
0°-180°	7095.0	100.0



--- HS — SS

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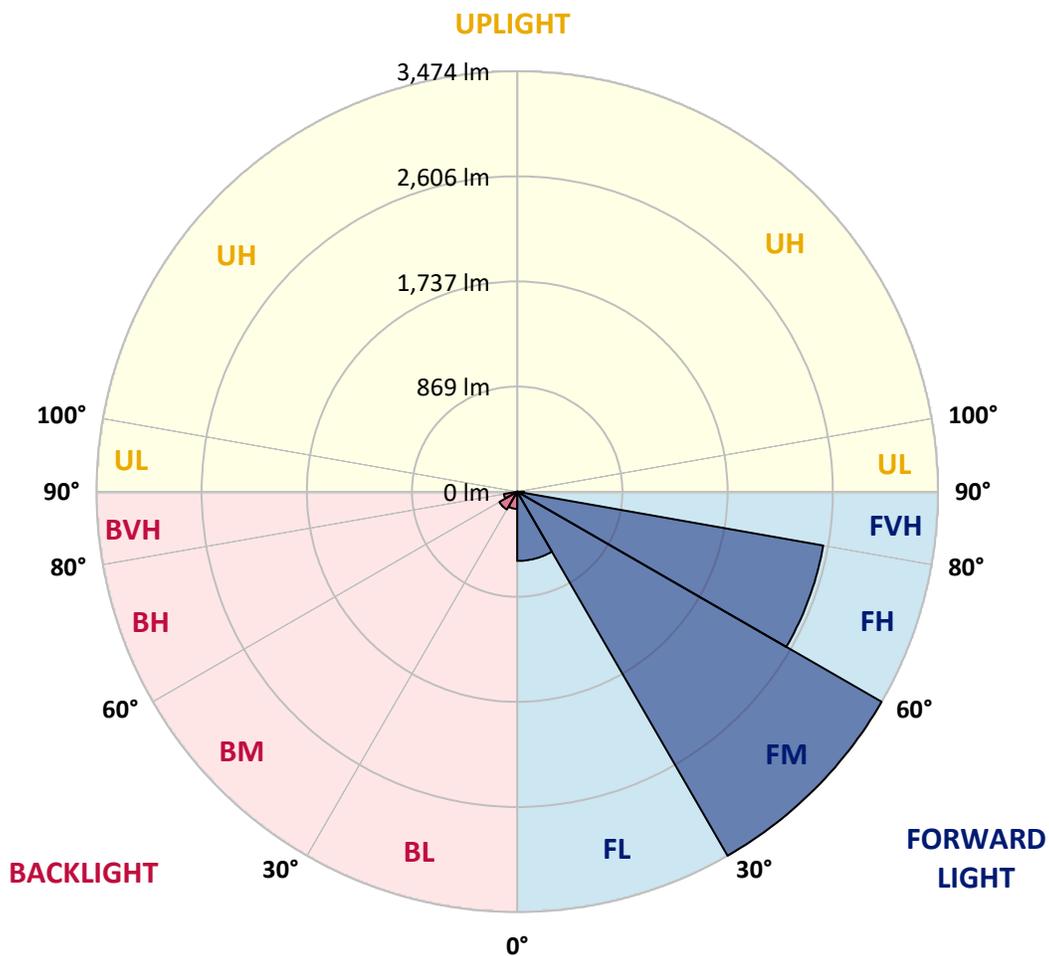
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	572.5	8.1			
FM	(30°-60°)	3474.1	49.0			
FH	(60°-80°)	2565.7	36.2			G2/5000
FVH	(80°-90°)	57.1	0.8			G1/100
BL	(0°-30°)	142.3	2.0	B1/500		
BM	(30°-60°)	169.7	2.4	B0/220		
BH	(60°-80°)	112.2	1.6	B1/500		G1/500
BVH	(80°-90°)	1.4	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4
2.5°	950.3	946.3	944.6	937.2	924.4	914.6	895.7	873.8	869.8	848.5	822.6
5°	1073.7	1070.3	1067.9	1057.5	1044.3	1019.7	985.4	944.6	936.8	896.4	844.5
7.5°	1159.6	1165.7	1165.7	1158.9	1142.4	1123.9	1081.7	1026.1	1016.4	954.4	873.8
10°	1209.8	1217.2	1222.9	1228.7	1226.3	1218.9	1179.1	1116.5	1104.7	1022.4	907.9
12.5°	1214.5	1221.9	1238.1	1262.0	1285.3	1302.1	1277.2	1216.5	1203.1	1101.3	948.3
15°	1188.2	1196.0	1220.9	1267.4	1323.7	1372.9	1381.0	1327.4	1313.6	1195.3	998.8
17.5°	1142.4	1147.5	1183.2	1247.5	1335.8	1426.2	1475.0	1446.4	1433.6	1302.8	1055.1
20°	1108.4	1112.1	1143.4	1212.5	1328.4	1459.5	1564.0	1572.7	1559.3	1418.1	1116.1
22.5°	1166.7	1173.4	1174.4	1207.1	1308.2	1476.0	1642.2	1697.1	1687.0	1540.4	1176.1
25°	1326.1	1333.8	1308.2	1288.0	1325.4	1483.4	1709.2	1824.5	1816.4	1672.2	1236.4
27.5°	1536.7	1544.8	1511.7	1451.4	1415.4	1511.4	1768.9	1953.9	1953.5	1811.7	1301.5
30°	1743.6	1751.7	1718.0	1657.7	1574.8	1590.6	1820.4	2089.4	2091.4	1955.6	1370.5
32.5°	1960.6	1970.7	1936.0	1858.5	1771.9	1727.4	1892.9	2225.5	2237.0	2122.4	1448.4
35°	2207.3	2208.6	2159.8	2078.6	1978.8	1910.4	2009.1	2378.2	2405.5	2329.0	1547.1
37.5°	2449.3	2459.0	2418.9	2290.9	2199.2	2121.7	2182.0	2568.9	2607.6	2581.4	1676.2
40°	2628.5	2649.1	2643.4	2505.2	2418.3	2363.0	2396.7	2795.7	2844.9	2875.2	1839.0
42.5°	2741.1	2756.6	2782.9	2699.6	2620.8	2629.9	2650.1	3059.9	3120.5	3210.2	2026.0
45°	2870.2	2877.6	2899.5	2862.8	2809.5	2901.2	2919.0	3357.5	3421.1	3570.4	2233.6
47.5°	3027.9	3045.4	3051.5	3017.8	2993.5	3141.1	3178.2	3628.1	3717.4	3956.3	2453.3
50°	3228.7	3233.4	3243.9	3222.0	3197.7	3347.3	3410.7	3912.1	3993.4	4343.5	2670.0
52.5°	3425.2	3442.0	3478.4	3464.6	3454.8	3522.9	3618.0	4168.3	4258.9	4666.3	2886.3
55°	3481.8	3496.3	3622.0	3707.9	3787.5	3739.3	3816.1	4397.8	4495.8	4954.8	3094.6
57.5°	3255.7	3285.0	3502.7	3726.5	4056.4	4075.6	4088.4	4633.3	4721.3	5175.9	3311.3
60°	2684.1	2689.9	3047.1	3430.9	4011.9	4369.1	4486.0	4886.4	4960.2	5381.8	3570.8
62.5°	1707.2	1765.5	2157.4	2699.3	3541.5	4326.6	4966.9	5269.2	5296.2	5628.8	3942.8
65°	813.2	850.9	1133.3	1667.8	2565.2	3783.1	5298.9	5961.7	5973.9	6118.4	4439.9
67.5°	450.2	468.4	602.9	897.7	1499.6	2675.4	5164.7	6782.0	6793.4	6618.5	4875.9
69°	352.2	367.7	473.5	676.7	1016.7	1922.9	4673.7	7022.2	7056.3	6761.8	4891.4
70°	298.9	314.1	407.8	571.5	817.5	1485.8	4160.2	6962.6	6998.7	6748.3	4775.9
72.5°	183.0	191.7	271.6	402.4	547.9	747.4	2565.5	5888.3	5949.3	6190.2	4104.6
75°	123.3	128.1	169.8	277.7	391.9	384.8	1332.8	4150.4	4282.5	4815.3	3031.6
77.5°	88.3	92.7	113.9	179.6	274.6	254.1	603.6	2579.3	2607.6	2888.0	1653.3
80°	50.2	54.3	80.5	106.8	186.4	169.5	239.9	1232.0	1246.2	1238.4	552.0
82.5°	26.3	29.7	44.1	70.4	119.6	110.9	99.7	412.5	414.5	344.7	121.0
85°	5.1	6.1	21.9	48.2	61.7	48.2	40.8	96.7	98.7	87.3	30.0
87.5°	0.0	0.3	8.8	10.8	12.1	12.5	13.1	18.9	20.2	27.3	8.1
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°	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4
2.5°	811.1	799.0	775.8	748.8	727.9	707.3	691.2	674.3	668.3	665.2	664.9
5°	819.2	793.6	744.4	693.9	652.4	613.3	585.4	558.7	546.3	540.5	538.2
7.5°	832.7	791.6	712.4	635.2	575.6	526.7	488.0	459.0	444.5	438.4	436.1
10°	848.5	788.9	675.0	573.2	497.1	446.5	408.1	379.5	363.6	356.9	353.5
12.5°	867.1	784.2	631.9	510.5	430.0	379.5	332.9	297.6	279.4	271.6	267.9
15°	890.0	779.5	586.7	451.6	371.0	309.4	258.5	234.5	230.8	229.5	229.8
17.5°	912.6	772.0	537.5	393.3	309.0	241.6	215.7	214.3	215.0	215.0	215.0
20°	932.8	755.2	483.9	343.4	250.0	203.9	198.5	196.1	194.4	193.1	191.4
22.5°	948.6	732.6	432.4	293.9	204.2	186.7	178.3	170.9	164.8	160.7	158.7
25°	959.4	702.6	385.2	246.3	183.7	169.8	154.7	142.2	132.8	127.0	124.7
27.5°	967.5	670.3	343.1	206.2	169.5	150.3	130.4	115.6	105.8	100.8	98.7
30°	973.2	633.5	306.0	181.3	153.7	129.7	108.5	94.0	86.9	84.2	82.9
32.5°	978.6	592.8	270.9	169.5	138.8	110.9	91.0	79.9	75.5	72.1	71.1
35°	992.1	555.0	237.6	157.0	123.7	94.7	78.2	70.1	65.7	63.7	63.0
37.5°	1024.1	527.1	205.6	144.2	108.5	81.9	68.4	62.7	58.6	56.6	55.9
40°	1075.7	512.9	178.6	130.4	93.7	72.1	62.0	56.6	52.2	49.2	48.5
42.5°	1151.5	514.9	159.7	116.6	81.9	64.4	55.9	49.5	44.8	42.1	41.5
45°	1243.5	529.8	146.6	103.1	72.1	58.3	49.2	42.5	38.1	35.7	35.0
47.5°	1343.3	553.7	135.8	91.0	64.4	52.6	42.5	35.4	31.7	29.7	29.3
50°	1448.4	576.9	124.7	79.2	57.6	46.8	35.7	29.3	26.3	24.6	23.9
52.5°	1554.9	603.9	114.6	68.4	51.9	40.1	29.7	23.9	21.6	20.2	19.5
55°	1669.5	624.1	104.8	60.0	46.2	34.0	24.6	19.9	17.9	16.2	15.8
57.5°	1804.3	655.5	94.7	51.9	39.4	28.3	20.2	15.8	14.2	12.5	12.1
60°	1986.2	692.2	83.9	45.8	32.4	23.3	16.5	12.8	10.8	9.4	9.1
62.5°	2226.2	733.0	70.4	40.1	26.3	18.9	13.1	10.1	7.8	6.1	6.1
65°	2530.5	799.3	57.6	33.7	21.6	15.5	10.1	7.4	4.4	2.7	2.7
67.5°	2708.1	810.8	46.5	27.6	17.5	13.1	8.4	5.1	1.3	0.3	0.0
69°	2651.1	744.4	39.4	23.6	15.2	12.5	7.8	3.7	0.7	0.0	0.0
70°	2544.0	680.7	34.7	20.9	13.8	11.8	7.4	2.7	0.7	0.0	0.0
72.5°	2102.2	484.6	26.3	15.5	10.1	10.4	6.7	1.7	0.7	0.0	0.0
75°	1531.3	294.5	18.9	10.8	6.4	7.8	4.7	0.7	0.3	0.0	0.0
77.5°	851.9	138.8	11.8	6.1	4.0	4.7	2.4	0.0	0.0	0.0	0.0
80°	276.7	37.7	5.4	3.4	2.4	2.7	1.0	0.0	0.0	0.0	0.0
82.5°	51.2	10.8	3.0	1.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0
85°	11.1	4.4	1.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	1.3	0.3	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)