

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: P1208108

Luminaire Tested: UPW-SA1-040-740-U-T2R-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1208108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA1-040-740-U-T2R-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4926 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

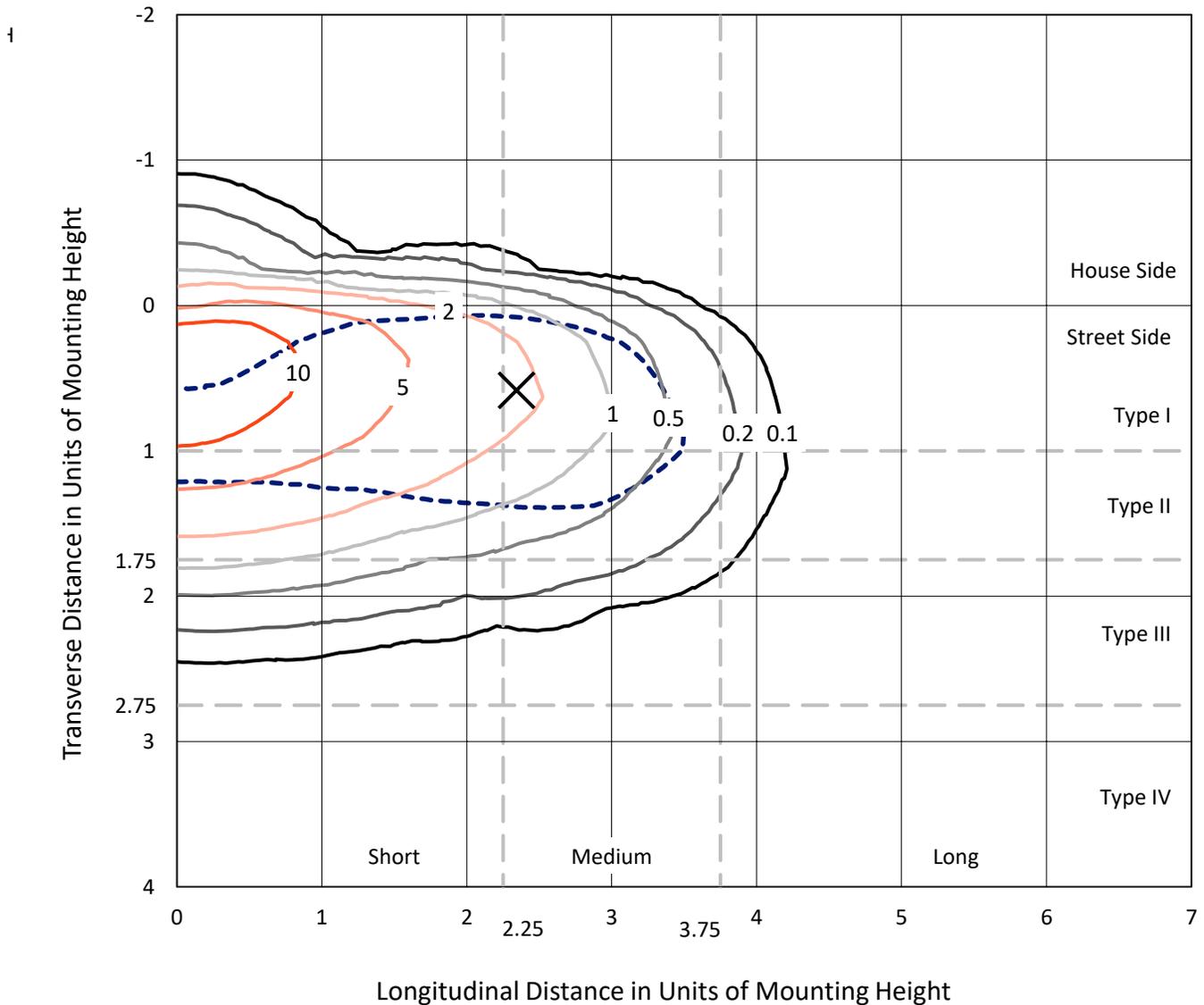
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

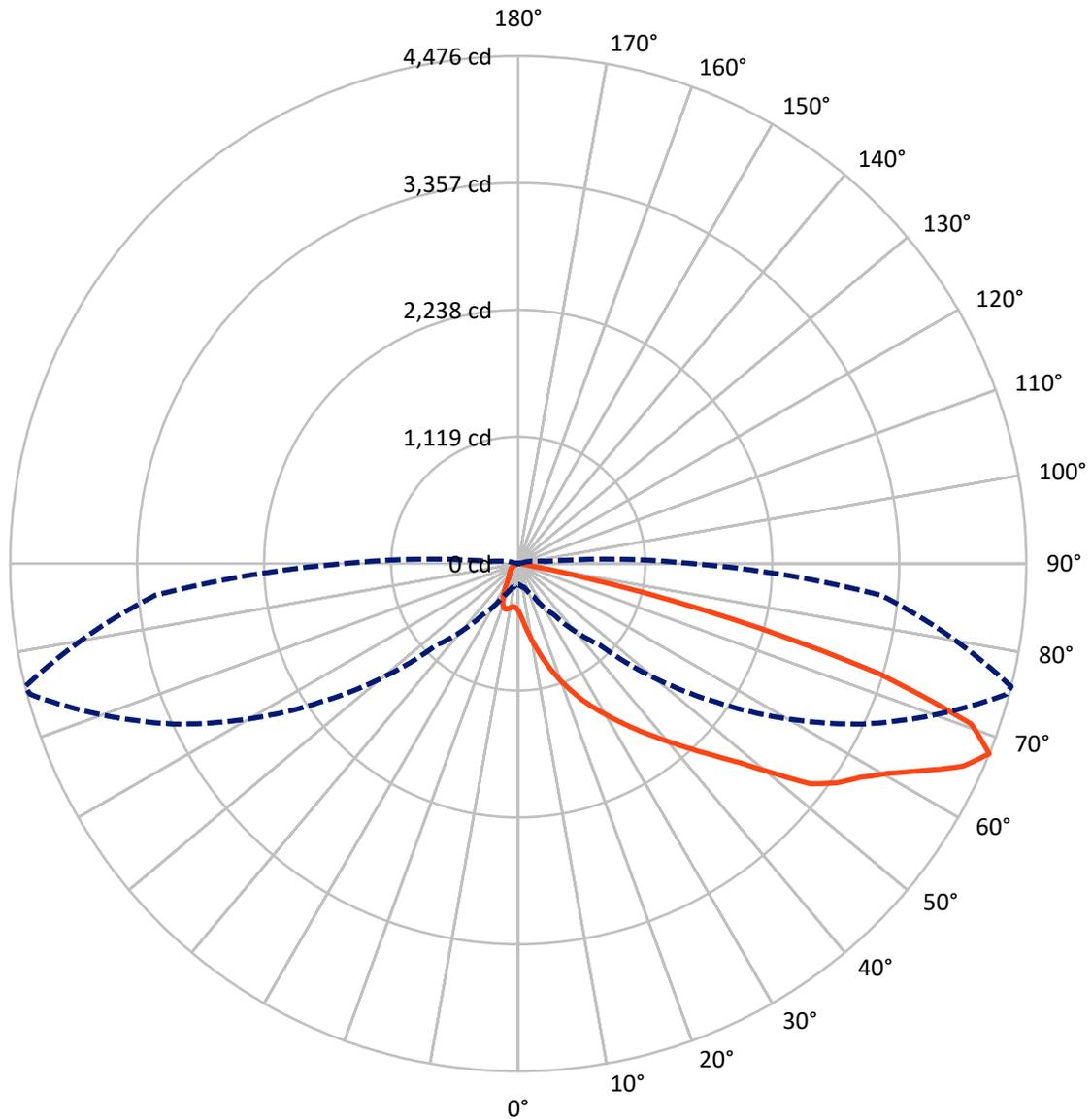
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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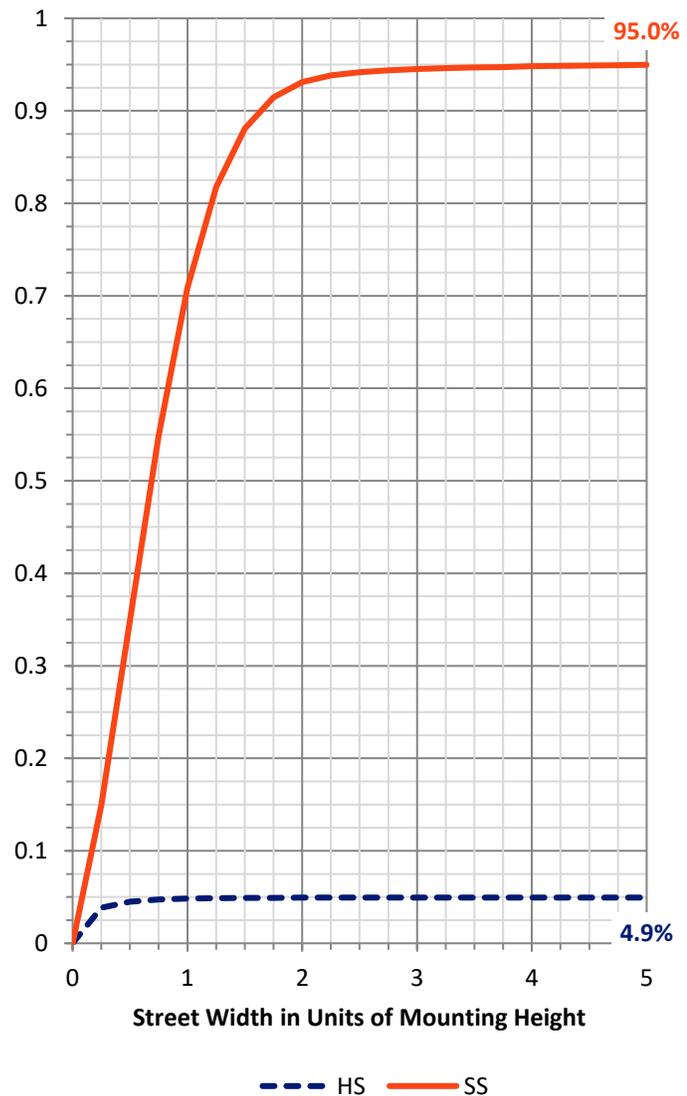
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	244.6	0.0	244.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	4681.4	0.0	4681.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	4926.0	0.0	4926.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.0	1.1
10°-20°	206.0	4.2
20°-30°	419.1	8.5
30°-40°	727.4	14.8
40°-50°	1027.8	20.9
50°-60°	1165.5	23.7
60°-70°	966.7	19.6
70°-80°	350.2	7.1
80°-90°	11.4	0.2
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°	4926.0	100.0
0°-180°	4926.0	100.0



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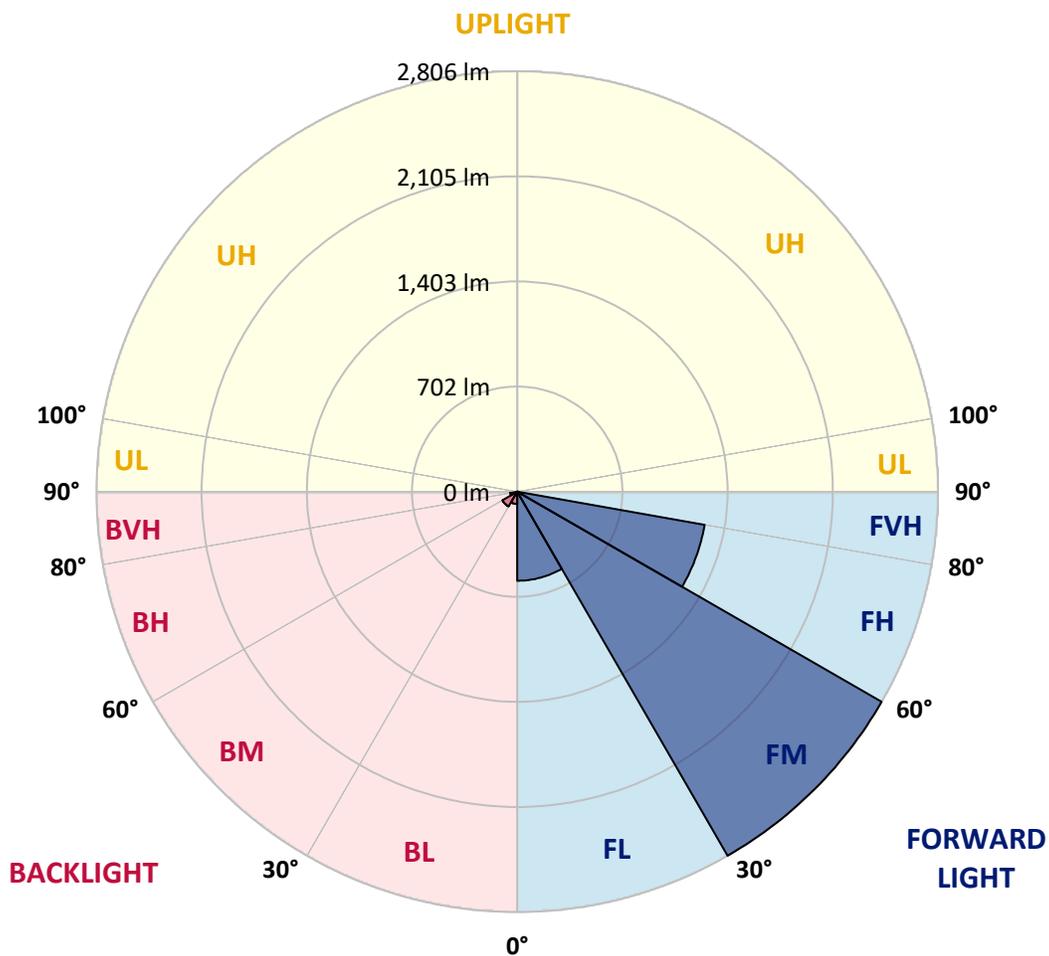
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	594.6	12.1			
FM	(30°-60°)	2806.2	57.0			
FH	(60°-80°)	1269.6	25.8			G1/1800
FVH	(80°-90°)	11.0	0.2			G1/100
BL	(0°-30°)	82.5	1.7	B0/110		
BM	(30°-60°)	114.5	2.3	B0/220		
BH	(60°-80°)	47.3	1.0	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9
2.5°	623.8	609.7	613.0	603.9	587.5	553.8	525.1	497.9	466.2	465.1	439.0
5°	841.1	829.3	827.7	809.4	779.6	722.4	666.7	603.3	532.5	527.3	471.8
7.5°	1038.4	1028.9	1025.5	1003.7	948.2	892.5	820.0	726.7	616.0	606.5	516.1
10°	1189.9	1185.4	1186.3	1170.7	1123.2	1071.4	976.2	857.3	710.8	696.1	569.2
12.5°	1304.8	1305.8	1313.6	1304.1	1277.6	1239.1	1137.5	996.5	815.7	795.6	629.8
15°	1389.2	1394.5	1408.8	1420.7	1418.7	1385.5	1292.2	1137.9	927.0	904.8	697.4
17.5°	1443.8	1449.8	1470.5	1496.9	1521.0	1513.3	1441.6	1274.3	1039.7	1014.0	769.7
20°	1491.7	1498.8	1521.0	1555.8	1600.9	1610.6	1563.5	1406.6	1152.2	1120.9	844.4
22.5°	1595.5	1595.3	1608.9	1629.2	1672.1	1697.2	1667.4	1529.4	1263.3	1230.7	920.6
25°	1783.3	1776.2	1771.4	1755.4	1764.9	1780.5	1763.8	1644.3	1375.1	1342.1	997.8
27.5°	2006.5	2010.8	1972.4	1929.4	1896.2	1880.2	1853.0	1750.7	1482.6	1446.3	1073.4
30°	2241.9	2243.2	2197.9	2143.1	2069.9	2009.3	1962.2	1852.3	1593.1	1553.6	1146.8
32.5°	2454.3	2445.9	2401.0	2326.3	2234.0	2165.7	2068.0	1965.9	1710.1	1671.9	1228.3
35°	2622.7	2612.8	2558.1	2490.2	2394.3	2325.7	2208.0	2079.2	1833.1	1795.8	1310.2
37.5°	2745.7	2734.1	2677.9	2608.0	2525.3	2485.4	2370.6	2202.4	1967.4	1927.2	1396.3
40°	2788.4	2778.3	2743.1	2692.0	2625.5	2616.4	2543.0	2344.2	2113.5	2070.8	1493.8
42.5°	2763.0	2753.0	2740.5	2723.3	2695.6	2704.3	2705.8	2505.9	2275.8	2233.7	1601.5
45°	2662.0	2653.1	2666.1	2691.3	2725.6	2768.4	2854.3	2679.7	2457.1	2412.2	1726.1
47.5°	2513.2	2506.8	2542.6	2605.6	2706.0	2823.8	2990.0	2862.3	2660.7	2619.0	1881.5
50°	2301.7	2300.6	2372.3	2487.3	2641.7	2850.6	3130.3	3069.9	2943.4	2899.6	2097.5
52.5°	1972.4	1974.5	2115.5	2299.6	2528.8	2832.5	3220.6	3336.7	3272.4	3226.8	2284.7
55°	1658.7	1671.7	1771.6	2037.1	2355.7	2765.1	3251.6	3461.2	3453.9	3410.7	2388.7
57.5°	1351.6	1375.1	1471.4	1719.4	2102.9	2609.9	3234.6	3515.2	3589.0	3556.0	2526.0
60°	1018.8	1029.6	1140.5	1372.3	1778.5	2326.8	3110.9	3544.5	3773.8	3750.9	2725.2
62.5°	648.2	675.1	773.6	997.2	1384.8	1933.5	2902.4	3544.1	4004.9	4017.4	2982.3
65°	341.5	373.0	425.2	618.0	951.6	1494.3	2588.8	3510.9	4288.5	4306.0	3183.2
67.5°	184.1	193.2	220.8	320.7	551.9	1012.3	2128.0	3346.8	4452.8	4475.9	3211.3
70°	134.7	139.6	150.0	177.4	277.8	587.9	1552.8	2974.9	4241.1	4232.4	2853.2
72.5°	103.4	111.2	118.9	129.9	159.7	313.8	966.8	2329.6	3383.9	3327.0	2132.7
75°	81.6	82.9	93.9	103.8	119.8	178.7	429.3	1356.8	2065.4	1930.5	1106.0
77.5°	65.2	66.0	72.5	81.2	96.3	117.4	133.0	533.8	659.4	588.4	240.0
80°	38.6	40.8	54.0	62.6	79.9	74.0	48.6	115.9	103.0	93.2	40.4
82.5°	21.6	23.3	30.4	49.4	55.7	35.4	24.2	31.3	24.2	23.5	11.4
85°	0.0	1.1	19.6	30.6	22.7	7.8	10.1	10.4	7.1	6.7	4.5
87.5°	0.0	0.0	6.0	5.8	0.9	1.3	2.4	3.5	2.8	2.8	2.4
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°	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9
2.5°	426.1	414.4	392.4	370.8	352.7	337.8	324.4	319.0	314.7	314.0	310.6
5°	445.1	421.5	379.4	344.9	321.8	305.4	291.4	282.8	276.1	273.5	271.1
7.5°	473.8	438.2	377.7	338.0	310.4	282.8	256.9	228.8	211.3	204.6	200.7
10°	508.7	460.2	384.2	336.1	287.7	229.4	186.5	150.9	136.4	131.7	130.4
12.5°	549.5	487.6	395.4	324.0	239.4	163.0	128.6	116.6	113.3	111.8	111.8
15°	596.4	517.6	403.4	289.0	177.0	123.2	111.4	105.8	102.3	100.4	100.6
17.5°	644.3	546.9	399.5	238.3	130.6	109.6	100.8	94.8	90.0	88.1	87.6
20°	692.6	574.1	377.9	177.4	110.5	99.5	89.6	82.9	78.1	76.2	75.8
22.5°	742.7	597.2	339.9	130.2	99.3	88.3	78.6	71.9	67.3	65.6	64.8
25°	791.5	616.0	286.9	105.3	88.7	77.7	68.4	62.2	58.1	56.3	56.1
27.5°	837.0	627.9	225.3	93.0	79.4	68.2	59.8	54.2	50.7	49.4	49.2
30°	878.0	629.0	166.6	84.0	71.2	60.0	52.2	47.3	44.2	43.0	42.5
32.5°	919.5	619.9	121.3	75.8	63.7	52.9	45.3	41.4	39.3	38.2	38.2
35°	958.5	599.0	94.5	68.6	56.3	46.0	39.9	37.1	35.8	34.8	34.8
37.5°	996.8	569.0	80.3	62.4	49.4	40.1	35.2	33.5	32.4	31.3	31.3
40°	1035.6	531.2	73.0	56.6	43.8	35.6	31.3	29.8	28.7	27.8	27.6
42.5°	1083.3	487.6	68.2	51.2	38.9	31.5	27.6	25.9	25.0	24.2	23.7
45°	1138.6	450.0	64.3	45.8	34.8	28.1	24.0	22.2	20.9	19.9	19.6
47.5°	1218.2	422.8	59.1	39.9	30.9	24.4	20.7	18.8	16.8	15.8	15.5
50°	1319.9	400.4	52.4	34.8	27.0	20.7	17.3	14.9	13.2	12.1	12.1
52.5°	1370.4	371.0	46.4	30.2	22.7	17.5	14.0	11.2	10.4	9.3	9.3
55°	1390.7	348.6	40.4	25.7	18.8	14.5	11.0	8.6	8.0	7.3	7.1
57.5°	1447.6	342.1	35.2	21.8	15.5	11.4	8.4	6.5	6.0	5.2	5.2
60°	1539.4	345.3	30.4	18.6	12.5	8.8	6.3	5.0	4.5	3.7	3.7
62.5°	1638.4	341.2	25.7	16.0	9.7	6.5	4.3	3.7	3.7	2.2	1.9
65°	1657.4	303.9	22.0	13.2	7.6	4.7	2.8	2.4	3.2	0.4	0.0
67.5°	1538.3	235.7	19.0	10.1	5.6	3.7	2.2	1.1	2.8	0.0	0.0
70°	1230.1	149.8	15.3	7.3	4.3	3.0	1.7	0.4	2.2	0.0	0.0
72.5°	869.8	87.0	12.1	5.2	3.7	2.4	1.3	0.0	1.3	0.0	0.0
75°	439.9	46.4	7.6	3.9	2.8	1.7	0.9	0.0	0.2	0.0	0.0
77.5°	95.2	21.6	4.7	2.8	1.9	1.1	0.4	0.0	0.0	0.0	0.0
80°	20.7	9.5	3.0	1.7	1.1	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	7.6	5.0	1.5	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.1	2.6	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	0.9	0.2	0.2	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)