

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: P1209017

Luminaire Tested: UPW-SA2-090-730-U-SL4-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-6)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-730-U-SL4-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 3000K, 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: 7913 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

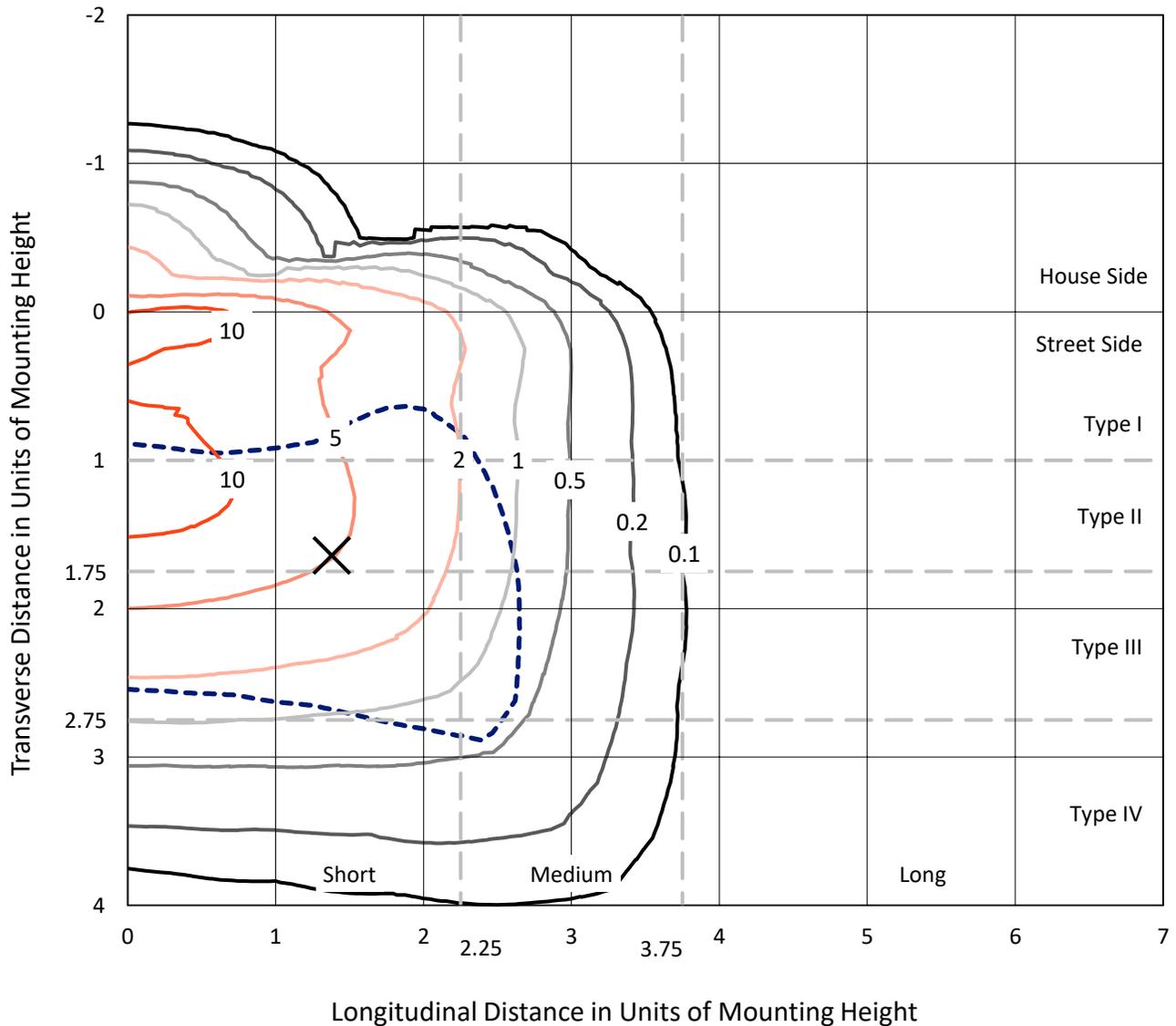
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

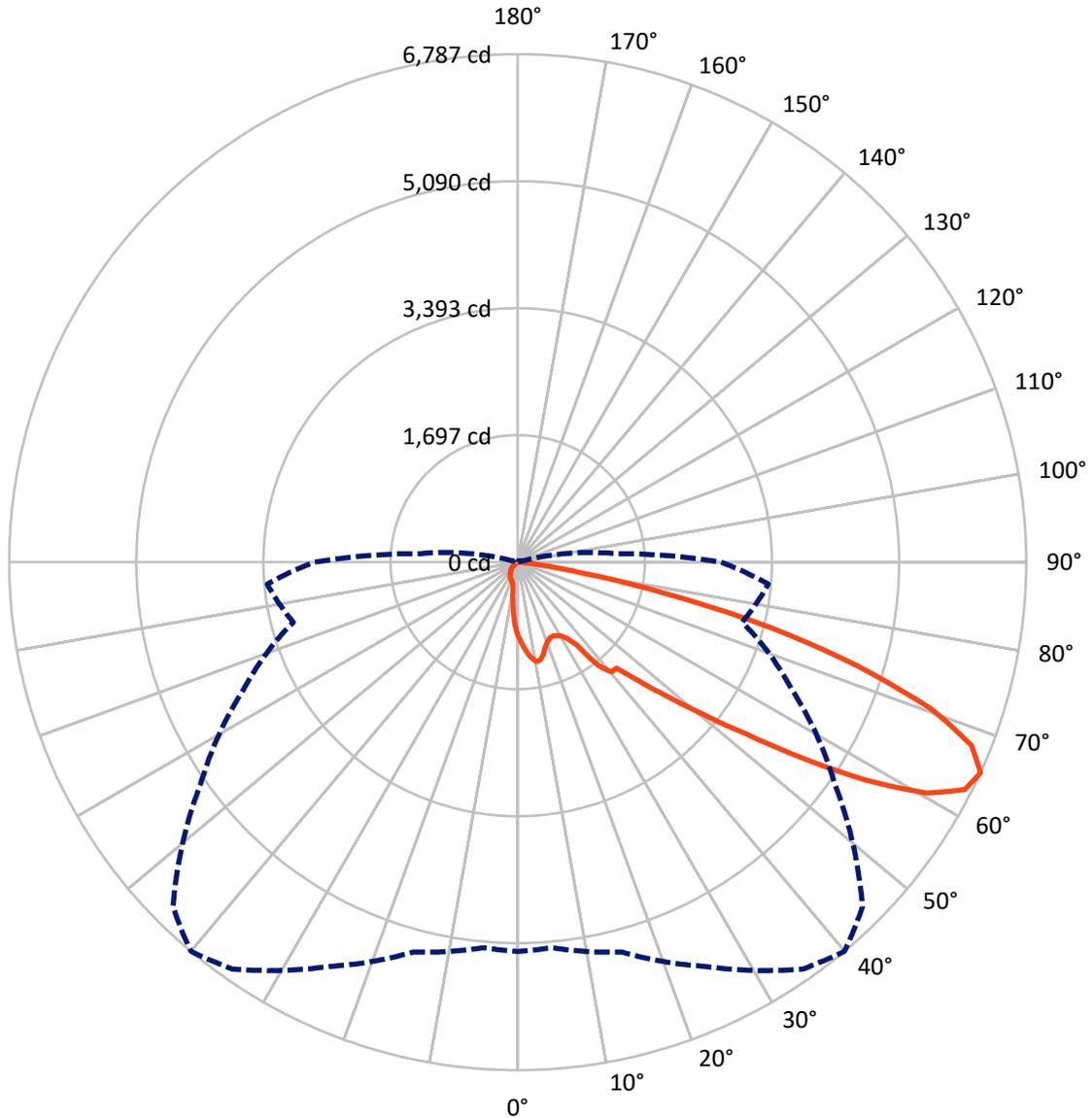
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.8 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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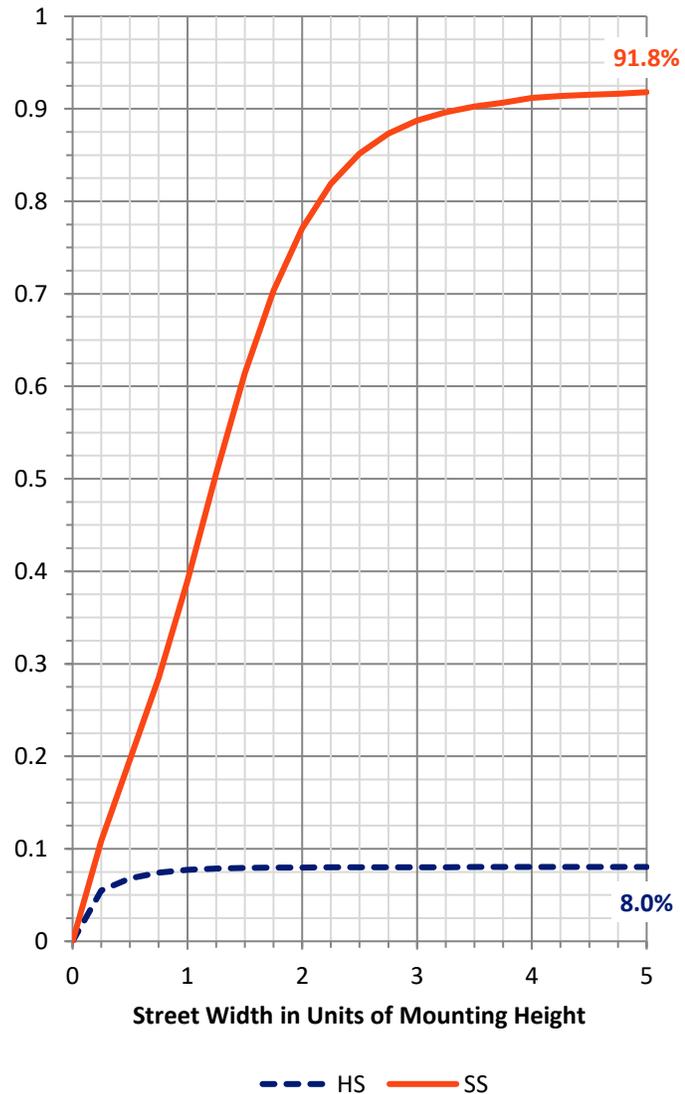
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	640.4	0.0	640.4
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	7272.6	0.0	7272.6
	% Fixture	91.9	0.0	91.9
Total	Lumens	7913.0	0.0	7913.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	1.1
10°-20°	254.9	3.2
20°-30°	397.8	5.0
30°-40°	659.2	8.3
40°-50°	1117.8	14.1
50°-60°	1968.9	24.9
60°-70°	2452.3	31.0
70°-80°	921.6	11.6
80°-90°	49.9	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°	7913.0	100.0
0°-180°	7913.0	100.0



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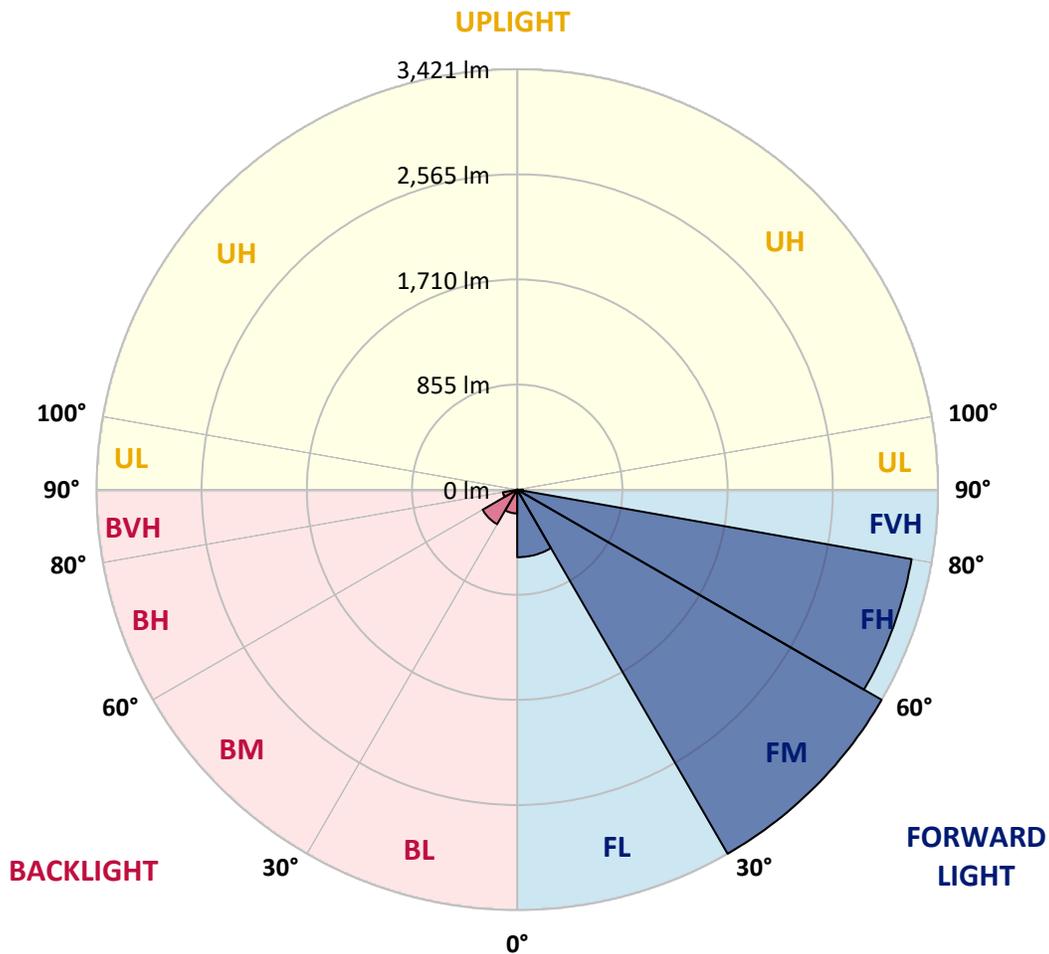
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	549.6	6.9			
FM	(30°-60°)	3420.7	43.2			
FH	(60°-80°)	3255.8	41.1			G2/5000
FVH	(80°-90°)	46.6	0.6			G1/100
BL	(0°-30°)	193.8	2.4	B1/500		
BM	(30°-60°)	325.2	4.1	B1/1000		
BH	(60°-80°)	118.2	1.5	B1/500		G1/500
BVH	(80°-90°)	3.3	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°	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2
2.5°	1118.7	1109.4	1107.0	1102.4	1090.7	1089.6	1087.2	1066.3	1051.1	1036.0	1012.7
5°	1227.1	1220.1	1214.3	1213.1	1204.9	1194.4	1192.1	1163.0	1135.0	1103.6	1054.6
7.5°	1306.3	1299.3	1299.3	1299.3	1290.0	1286.5	1286.5	1256.2	1229.4	1181.6	1115.2
10°	1322.6	1318.0	1322.6	1334.3	1345.9	1350.6	1355.3	1348.3	1326.1	1273.7	1193.3
12.5°	1281.8	1277.2	1281.8	1299.3	1321.5	1343.6	1372.7	1410.0	1418.2	1382.1	1277.2
15°	1241.1	1235.2	1225.9	1222.4	1245.7	1279.5	1319.1	1420.5	1495.1	1484.6	1373.9
17.5°	1215.4	1214.3	1192.1	1161.8	1164.1	1189.8	1241.1	1378.6	1532.4	1576.7	1463.6
20°	1190.9	1187.5	1163.0	1119.9	1110.5	1133.8	1177.0	1320.3	1525.4	1661.7	1556.9
22.5°	1178.1	1173.5	1140.8	1089.6	1080.2	1101.2	1139.7	1257.4	1490.4	1711.8	1645.4
25°	1193.3	1189.8	1143.2	1083.7	1075.6	1093.1	1126.9	1223.6	1445.0	1730.5	1716.5
27.5°	1244.6	1237.6	1175.8	1104.7	1094.2	1110.5	1138.5	1211.9	1405.4	1723.5	1773.6
30°	1419.4	1392.5	1300.5	1167.6	1135.0	1145.5	1167.6	1227.1	1379.7	1714.2	1837.7
32.5°	1758.5	1744.5	1590.7	1349.4	1225.9	1216.6	1231.7	1273.7	1397.2	1763.1	1956.6
35°	2348.1	2330.6	2112.7	1729.3	1410.0	1358.8	1349.4	1385.6	1530.1	1775.9	1976.4
37.5°	2807.2	2790.9	2608.0	2320.1	1926.3	1759.6	1651.2	1636.1	1538.2	1716.5	2000.8
40°	3031.0	3003.0	2735.0	2346.9	2053.3	1928.6	1808.6	1563.9	1454.3	1681.5	2063.8
42.5°	3571.7	3494.8	3179.0	2693.0	2162.8	1934.4	1722.3	1463.6	1484.6	1717.7	2161.7
45°	4173.0	4177.6	3795.4	3149.8	2521.7	2249.1	1983.4	1583.7	1593.0	1809.7	2291.0
47.5°	4866.3	4785.9	4381.6	3729.0	2970.4	2661.6	2364.4	1792.3	1746.8	1957.7	2464.6
50°	5370.9	5319.7	5005.0	4389.7	3523.9	3173.1	2782.8	2105.7	1998.5	2127.9	2640.6
52.5°	5649.4	5637.8	5480.5	4987.5	4209.1	3801.3	3290.8	2472.8	2306.2	2315.5	2771.1
55°	5868.5	5837.1	5830.1	5588.8	4984.0	4625.1	3960.9	2971.5	2696.5	2498.4	2901.6
57.5°	6088.8	6052.6	6082.9	6039.8	5817.2	5508.4	4765.0	3513.4	3036.8	2693.0	3057.8
60°	6092.3	6056.1	6141.2	6323.0	6422.0	6262.4	5580.7	4105.4	3412.0	2892.3	3269.9
62.5°	5811.4	5775.3	5921.0	6299.7	6713.4	6693.6	6213.4	4672.9	3786.1	3091.6	3445.8
65°	5199.6	5170.5	5393.1	5960.6	6635.3	6786.8	6508.3	5165.8	4040.1	3100.9	3354.9
67.5°	3965.6	4018.0	4395.6	5178.7	6229.8	6533.9	6466.3	5295.2	3915.5	2818.9	3008.8
70°	2559.0	2654.6	3076.4	4000.5	5301.0	5844.0	5879.0	4700.9	3276.9	2292.2	2260.7
72.5°	1362.3	1379.7	1768.9	2588.2	4030.8	4744.0	4796.4	3539.1	2242.1	1523.1	1234.1
75°	596.6	644.4	865.8	1455.5	2686.0	3476.1	3320.0	2120.9	1157.2	696.9	477.8
77.5°	214.4	231.9	336.8	712.0	1516.1	2034.6	1896.0	1008.0	467.3	308.8	139.8
80°	103.7	104.9	135.2	271.5	633.9	857.7	745.8	356.6	213.3	173.6	54.8
82.5°	35.0	43.1	76.9	107.2	235.4	292.5	215.6	132.8	127.0	131.7	38.5
85°	0.0	1.2	38.5	58.3	60.6	68.8	54.8	58.3	78.1	79.2	12.8
87.5°	0.0	0.0	0.0	11.7	12.8	12.8	7.0	14.0	32.6	38.5	2.3
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°	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2
2.5°	998.7	984.7	956.7	933.4	902.0	879.8	856.5	846.0	839.0	809.9	807.6
5°	1027.8	996.3	932.3	862.3	793.6	726.0	661.9	625.8	594.3	581.5	566.3
7.5°	1070.9	1023.1	910.1	790.1	660.7	555.9	484.8	445.1	412.5	406.7	402.0
10°	1130.4	1058.1	891.5	696.9	515.1	416.0	357.8	332.1	321.6	319.3	315.8
12.5°	1195.6	1102.4	870.5	588.5	403.2	319.3	294.8	294.8	300.7	303.0	303.0
15°	1279.5	1153.7	830.9	491.8	324.0	279.7	278.5	283.2	289.0	291.3	292.5
17.5°	1352.9	1207.3	780.8	403.2	278.5	265.7	268.0	271.5	277.3	282.0	282.0
20°	1432.2	1256.2	729.5	332.1	256.4	252.9	255.2	259.9	266.9	270.4	271.5
22.5°	1502.1	1294.7	670.1	285.5	241.2	241.2	244.7	249.4	257.5	263.4	263.4
25°	1560.4	1325.0	606.0	254.0	227.2	228.4	231.9	238.9	247.0	252.9	254.0
27.5°	1605.8	1340.1	532.5	228.4	213.3	213.3	219.1	227.2	237.7	244.7	244.7
30°	1664.1	1363.4	476.6	209.8	198.1	198.1	202.8	213.3	227.2	236.6	236.6
32.5°	1751.5	1404.2	417.2	193.4	184.1	184.1	188.8	198.1	212.1	223.7	226.1
35°	1765.4	1385.6	356.6	180.6	171.3	170.1	172.5	180.6	192.3	200.4	203.9
37.5°	1787.6	1385.6	299.5	166.6	158.5	157.3	158.5	162.0	166.6	169.0	167.8
40°	1836.5	1394.9	251.7	155.0	146.8	144.5	143.3	142.2	137.5	131.7	130.5
42.5°	1913.4	1419.4	210.9	142.2	134.0	131.7	128.2	120.0	109.5	101.4	101.4
45°	2005.5	1441.5	177.1	131.7	122.4	120.0	109.5	96.7	83.9	78.1	78.1
47.5°	2118.5	1468.3	150.3	122.4	113.0	107.2	89.7	74.6	64.1	61.8	61.8
50°	2249.1	1484.6	127.0	111.9	103.7	93.2	71.1	58.3	50.1	48.9	48.9
52.5°	2339.9	1483.4	108.4	102.5	94.4	78.1	57.1	46.6	40.8	38.5	38.5
55°	2427.3	1467.1	90.9	90.9	81.6	62.9	46.6	38.5	32.6	30.3	29.1
57.5°	2533.4	1459.0	78.1	75.7	66.4	51.3	38.5	31.5	25.6	21.0	19.8
60°	2702.4	1473.0	65.3	60.6	52.4	40.8	31.5	24.5	18.6	12.8	11.7
62.5°	2815.4	1459.0	53.6	48.9	42.0	32.6	23.3	17.5	10.5	7.0	5.8
65°	2710.5	1302.8	45.4	39.6	33.8	25.6	17.5	11.7	4.7	1.2	0.0
67.5°	2343.4	1040.6	38.5	32.6	26.8	19.8	12.8	7.0	1.2	0.0	0.0
70°	1703.7	701.5	33.8	26.8	21.0	16.3	9.3	3.5	0.0	0.0	0.0
72.5°	891.5	329.8	30.3	24.5	18.6	12.8	7.0	2.3	0.0	0.0	0.0
75°	312.3	118.9	28.0	23.3	16.3	10.5	5.8	2.3	0.0	0.0	0.0
77.5°	97.9	53.6	28.0	24.5	17.5	10.5	5.8	2.3	0.0	0.0	0.0
80°	44.3	35.0	25.6	23.3	16.3	10.5	5.8	1.2	0.0	0.0	0.0
82.5°	31.5	28.0	24.5	21.0	15.1	9.3	4.7	1.2	0.0	0.0	0.0
85°	11.7	9.3	9.3	11.7	10.5	5.8	2.3	0.0	0.0	0.0	0.0
87.5°	1.2	1.2	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)