

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: P1209150

Luminaire Tested: UPW-SA2-090-827-U-SL3-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-4)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-827-U-SL3-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6064 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

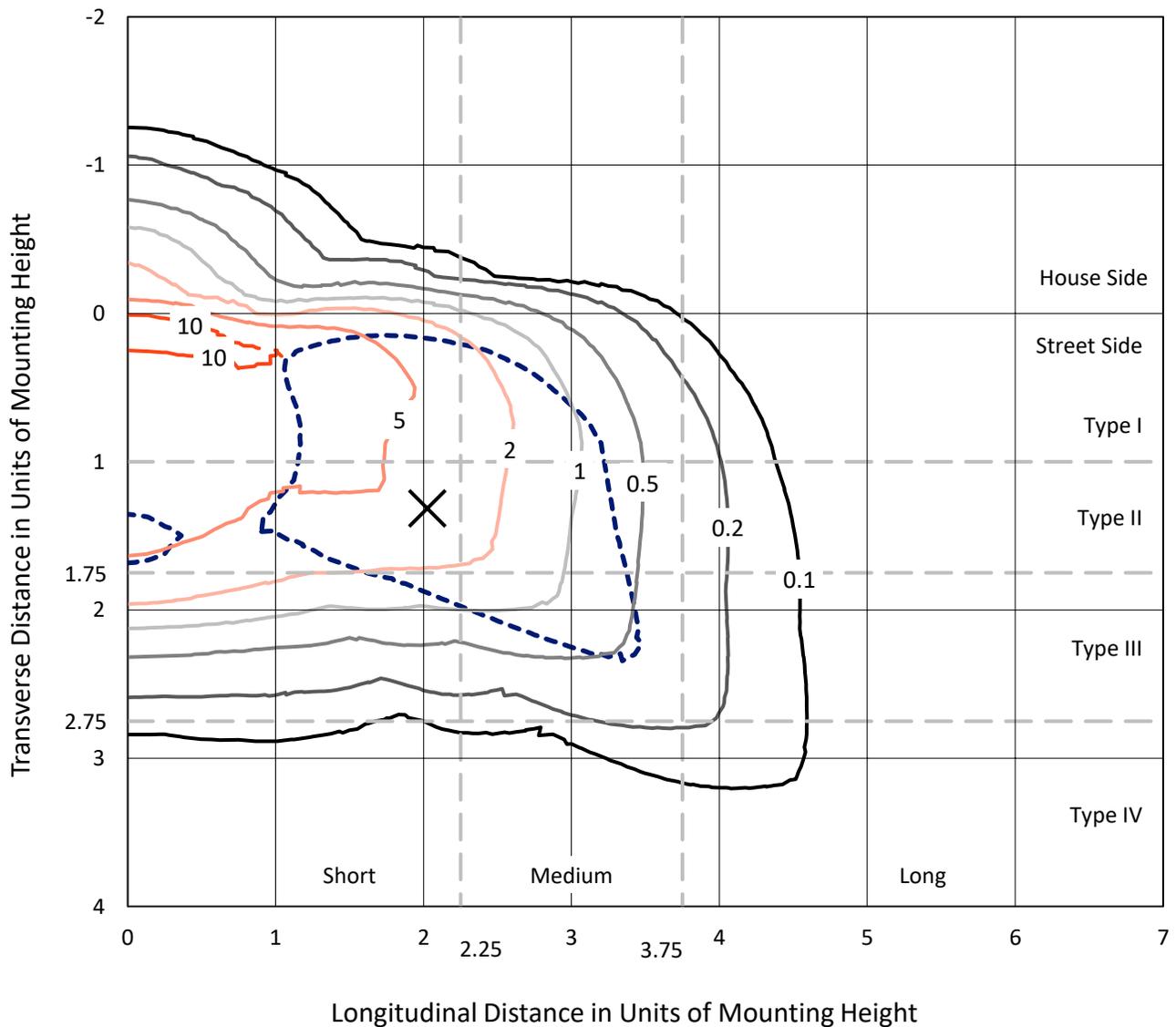
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P1209150
 CATALOG NUMBER: UPW-SA2-090-827-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

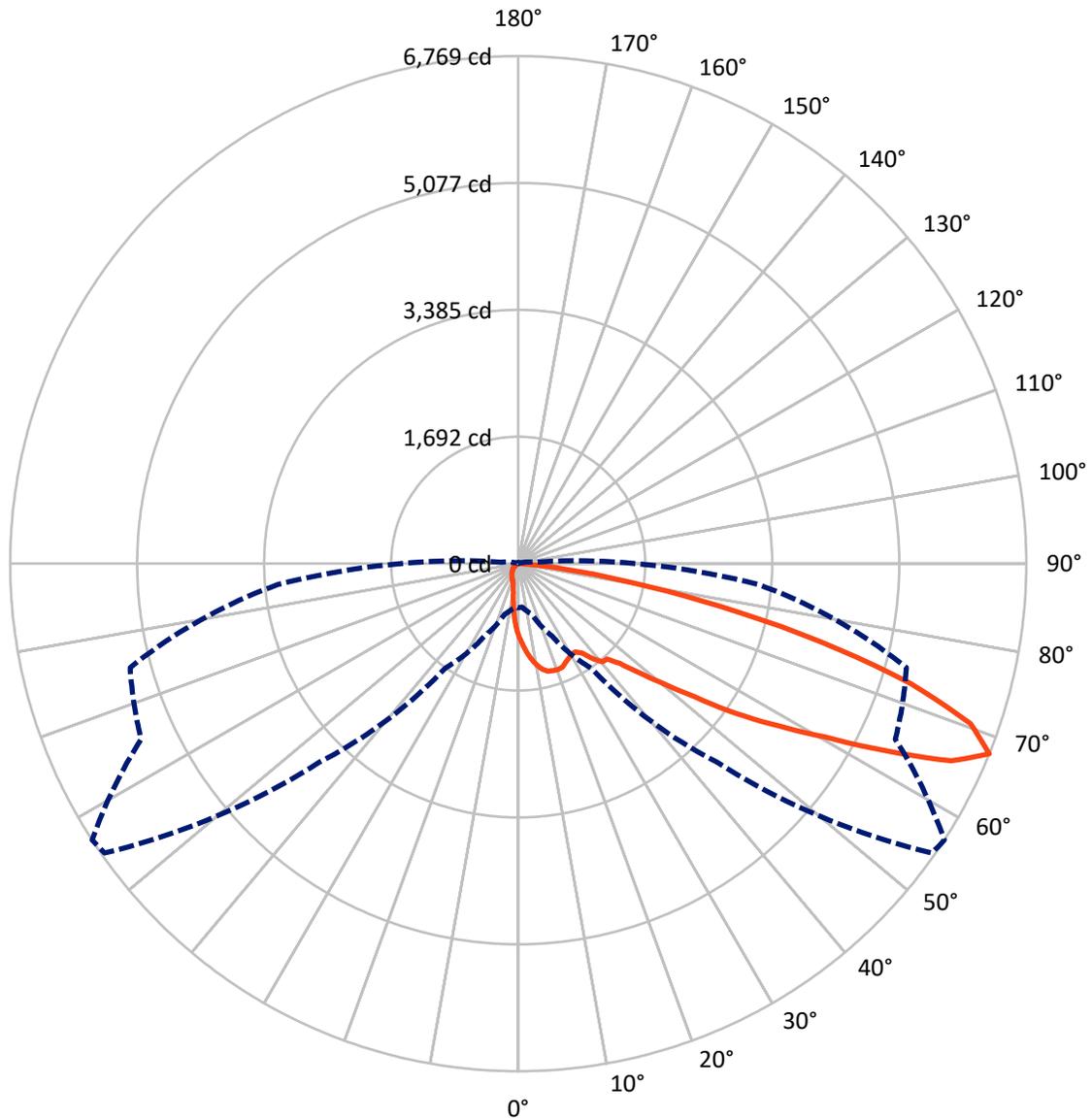
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.6 fc
 Type III - Short - N/A

REPORT NUMBER: P1209150
CATALOG NUMBER: UPW-SA2-090-827-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P1209150

CATALOG NUMBER: UPW-SA2-090-827-U-SL3-HSS

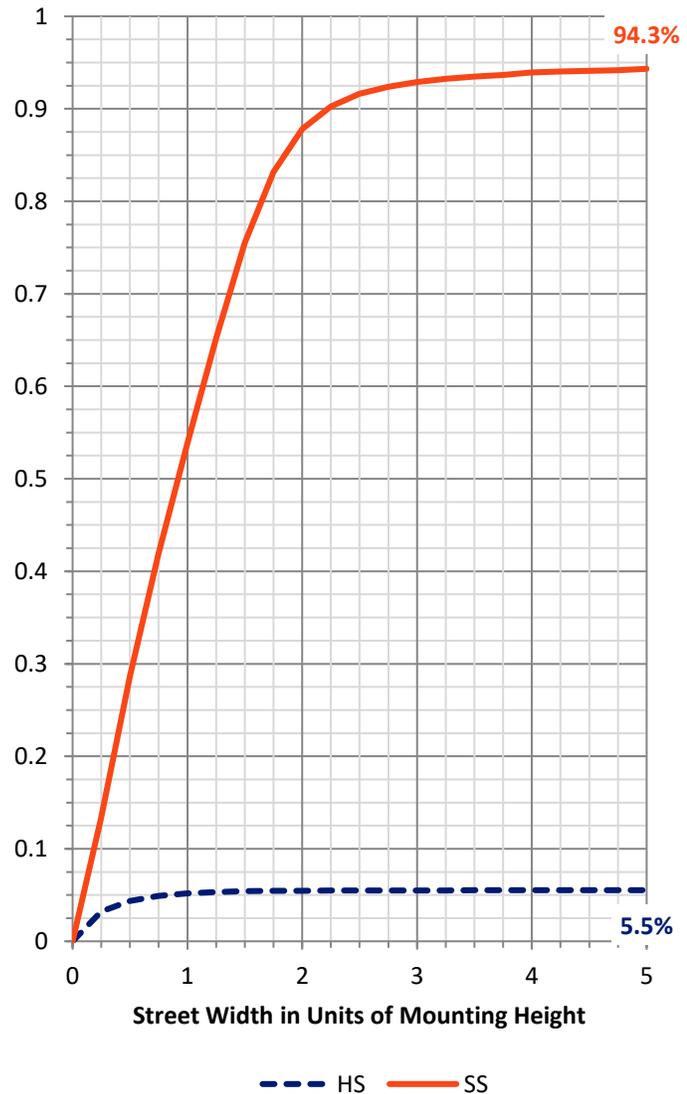
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	337.5	0.0	337.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	5726.5	0.0	5726.5
	% Fixture	94.4	0.0	94.4
Total	Lumens	6064.0	0.0	6064.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	1.4
10°-20°	225.6	3.7
20°-30°	330.1	5.4
30°-40°	496.4	8.2
40°-50°	809.9	13.4
50°-60°	1532.9	25.3
60°-70°	1751.8	28.9
70°-80°	764.6	12.6
80°-90°	66.0	1.1
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°	6064.0	100.0
0°-180°	6064.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1209150

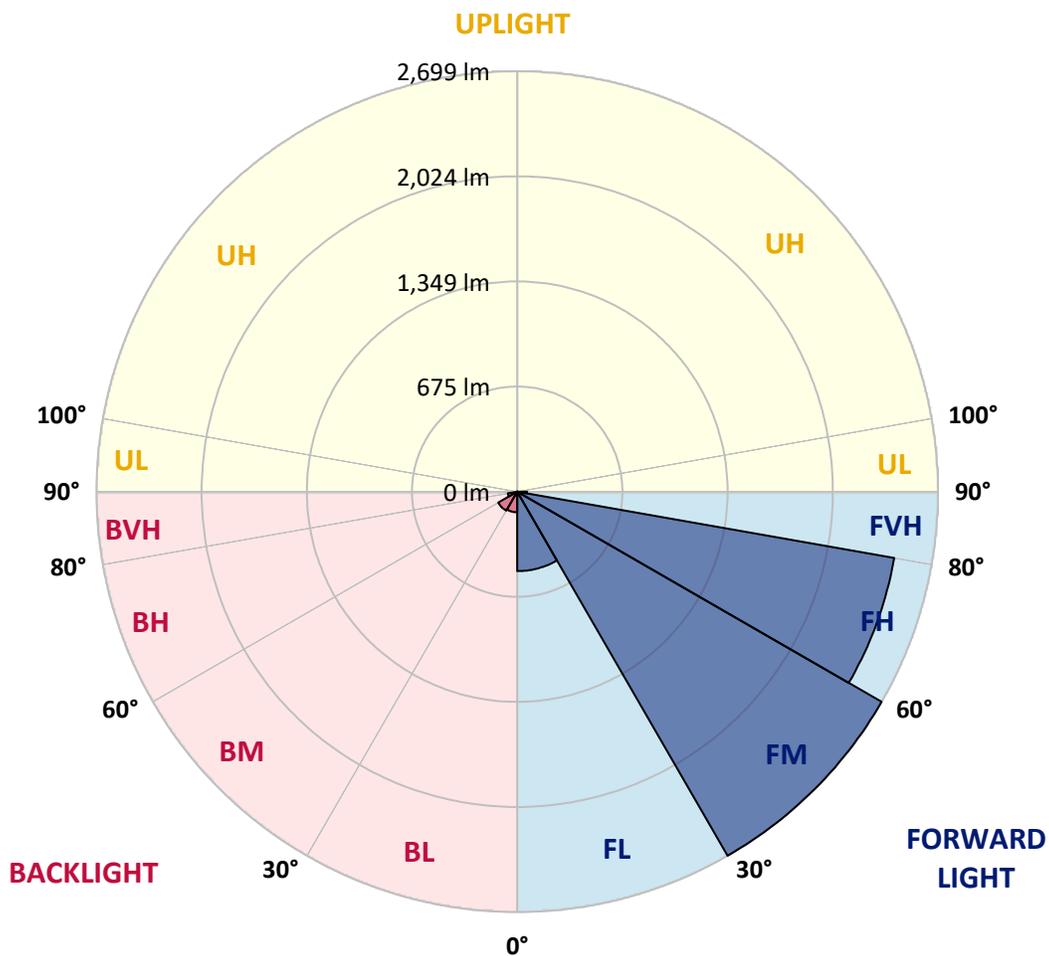
CATALOG NUMBER: UPW-SA2-090-827-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	509.9	8.4			
FM	(30°-60°)	2698.6	44.5			
FH	(60°-80°)	2455.2	40.5			G2/5000
FVH	(80°-90°)	62.7	1.0			G1/100
BL	(0°-30°)	132.4	2.2	B1/500		
BM	(30°-60°)	140.6	2.3	B0/220		
BH	(60°-80°)	61.2	1.0	B0/110		G0/110
BVH	(80°-90°)	3.3	0.1			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 III Short





REPORT NUMBER: P1209150

CATALOG NUMBER: UPW-SA2-090-827-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	964.7	964.7	964.7	964.7	964.7	964.7	964.7	964.7	964.7	964.7	964.7
2.5°	1138.9	1148.3	1152.0	1136.0	1121.0	1109.7	1087.1	1073.0	1051.3	1025.0	988.3
5°	1306.4	1305.5	1296.1	1283.8	1277.2	1241.5	1203.8	1188.8	1153.9	1088.0	1016.5
7.5°	1369.5	1375.1	1381.7	1374.2	1362.9	1344.1	1299.8	1288.5	1237.7	1152.0	1051.3
10°	1340.3	1349.7	1361.0	1380.8	1418.4	1425.0	1391.1	1378.9	1317.7	1223.6	1080.5
12.5°	1205.7	1219.8	1238.6	1302.6	1390.2	1444.8	1452.3	1448.5	1396.8	1287.6	1101.2
15°	1026.9	1011.8	1060.7	1149.2	1293.2	1418.4	1486.2	1489.0	1462.6	1347.8	1123.8
17.5°	892.3	906.4	928.0	994.9	1144.5	1324.3	1481.5	1499.4	1511.6	1411.8	1150.2
20°	869.7	870.6	880.0	916.7	994.9	1211.3	1465.5	1507.8	1571.8	1474.9	1161.5
22.5°	891.3	885.7	890.4	897.9	946.9	1096.5	1431.6	1500.3	1607.6	1553.0	1185.0
25°	919.6	926.2	917.7	908.3	936.5	1044.7	1392.1	1462.6	1661.2	1622.7	1195.3
27.5°	998.6	1002.4	979.8	945.9	956.3	1021.2	1330.9	1432.5	1742.2	1700.8	1212.3
30°	1127.6	1123.8	1076.8	1021.2	997.7	1036.3	1292.3	1399.6	1785.5	1761.0	1203.8
32.5°	1223.6	1216.1	1169.9	1112.5	1071.1	1093.7	1292.3	1403.4	1873.0	1866.4	1219.8
35°	1310.2	1303.6	1246.2	1200.0	1164.3	1185.0	1364.8	1464.5	1998.2	2062.2	1276.3
37.5°	1404.3	1386.4	1341.2	1261.2	1249.9	1329.9	1521.0	1603.8	2196.8	2243.9	1278.2
40°	1553.0	1537.9	1465.5	1382.6	1321.5	1438.2	1643.4	1722.4	2337.0	2389.7	1270.6
42.5°	1757.2	1721.5	1632.1	1511.6	1413.7	1496.5	1657.5	1739.4	2443.4	2616.6	1343.1
45°	1979.4	1969.0	1844.8	1689.5	1585.9	1575.6	1807.1	1897.5	2679.6	2982.7	1500.3
47.5°	2300.3	2219.4	2055.6	1890.0	1801.5	1731.8	2036.8	2174.2	2967.7	3411.0	1734.7
50°	2638.2	2591.2	2341.7	2113.0	2004.8	1979.4	2400.1	2524.3	3336.6	3892.9	2125.3
52.5°	3214.3	3106.0	2769.1	2481.0	2293.7	2269.3	2795.4	2954.5	3752.6	4467.9	2519.6
55°	3602.0	3535.2	3196.4	2978.9	2733.3	2658.9	3355.4	3529.6	4261.8	4969.6	2914.0
57.5°	3726.3	3644.4	3339.4	3286.7	3230.3	3272.6	3936.2	4081.1	4614.8	5361.2	3263.2
60°	3228.4	3225.5	3051.4	3188.8	3468.4	3957.8	4622.3	4686.3	4900.9	5601.2	3480.6
62.5°	2322.0	2314.4	2349.3	2690.0	3211.4	4421.8	5566.3	5494.8	5149.4	5734.8	3598.3
65°	1203.8	1209.5	1384.5	1833.5	2583.6	4386.1	6430.4	6340.0	5302.8	5652.9	3515.4
67.5°	587.3	582.6	696.5	1066.4	1706.4	3745.1	6726.9	6769.2	5543.8	5352.7	3216.1
70°	292.7	296.5	379.3	562.8	931.8	2690.0	6212.0	6391.8	5321.6	4713.6	2738.9
72.5°	206.1	208.9	257.9	334.1	435.8	1633.0	5156.0	5465.6	4441.6	3749.8	1930.4
75°	147.8	152.5	189.2	249.4	241.9	819.8	3985.1	4168.6	3219.9	2315.4	1023.1
77.5°	107.3	113.9	147.8	192.0	167.5	344.5	2759.6	2754.9	1816.5	1100.3	414.1
80°	70.6	75.3	109.2	142.1	119.5	160.0	1617.0	1522.9	803.8	421.7	150.6
82.5°	39.5	41.4	73.4	98.8	82.8	75.3	722.9	666.4	272.0	154.4	70.6
85°	2.8	4.7	43.3	62.1	44.2	37.6	202.4	183.5	87.5	70.6	37.6
87.5°	0.0	0.0	5.6	11.3	7.5	5.6	48.9	42.4	26.4	41.4	18.8
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: P1209150

CATALOG NUMBER: UPW-SA2-090-827-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	964.7	964.7	964.7	964.7	964.7	964.7	964.7	964.7	964.7	964.7	964.7
2.5°	973.2	946.9	907.3	868.7	831.1	797.2	772.7	748.3	737.9	714.4	754.9
5°	978.9	931.8	837.7	746.4	667.3	582.6	527.1	487.5	467.8	449.9	450.8
7.5°	984.5	913.0	768.0	613.7	499.8	410.4	360.5	342.6	335.1	325.7	325.7
10°	977.9	882.9	668.3	482.8	367.1	319.1	291.8	285.2	289.0	288.0	290.8
12.5°	977.9	847.1	566.6	376.5	301.2	273.0	265.4	264.5	270.1	273.9	275.8
15°	965.7	792.5	465.0	308.7	263.5	253.2	250.4	250.4	254.1	257.9	257.0
17.5°	955.3	737.9	380.3	265.4	241.0	238.1	236.2	234.4	239.1	242.8	243.8
20°	929.9	661.7	313.4	239.1	225.9	222.1	221.2	219.3	224.0	227.8	230.6
22.5°	893.2	575.1	268.2	219.3	212.7	208.0	205.2	206.1	210.8	214.6	212.7
25°	844.3	498.8	235.3	205.2	195.8	192.9	189.2	191.1	192.0	195.8	198.6
27.5°	790.6	424.5	213.7	193.9	184.5	178.8	174.1	173.2	174.1	178.8	176.9
30°	711.6	359.5	198.6	180.7	170.4	162.8	157.2	154.4	153.4	154.4	155.3
32.5°	651.3	316.2	188.2	170.4	157.2	147.8	141.2	135.5	133.7	131.8	131.8
35°	612.7	292.7	177.9	156.2	144.0	134.6	124.2	117.7	113.9	112.0	112.9
37.5°	529.9	252.2	165.7	145.9	131.8	120.5	110.1	99.8	96.9	98.8	98.8
40°	460.3	216.5	154.4	133.7	117.7	107.3	96.0	83.8	81.9	87.5	88.5
42.5°	433.9	200.5	144.0	122.4	105.4	96.9	81.9	72.5	72.5	77.2	78.1
45°	465.9	195.8	134.6	112.0	95.1	85.7	70.6	62.1	62.1	66.8	67.8
47.5°	567.6	203.3	125.2	101.7	87.5	75.3	58.4	54.6	54.6	56.5	57.4
50°	783.1	227.8	115.8	91.3	80.0	64.0	50.8	47.1	46.1	47.1	47.1
52.5°	1057.0	276.7	105.4	81.9	70.6	53.6	44.2	40.5	37.6	37.6	36.7
55°	1333.7	329.4	95.1	72.5	61.2	46.1	37.6	33.9	29.2	27.3	26.4
57.5°	1577.5	371.8	82.8	64.0	52.7	39.5	32.9	25.4	18.8	15.1	15.1
60°	1729.0	383.1	71.5	55.5	43.3	33.9	26.4	16.9	9.4	7.5	6.6
62.5°	1757.2	347.3	61.2	47.1	36.7	28.2	18.8	9.4	3.8	0.9	0.9
65°	1681.0	273.9	52.7	39.5	30.1	22.6	12.2	4.7	0.0	0.0	0.0
67.5°	1553.0	215.5	44.2	32.9	25.4	17.9	7.5	0.9	0.0	0.0	0.0
70°	1354.4	172.2	38.6	28.2	21.6	15.1	4.7	0.0	0.0	0.0	0.0
72.5°	997.7	113.9	33.9	25.4	18.8	11.3	2.8	0.0	0.0	0.0	0.0
75°	545.9	72.5	31.1	23.5	17.9	9.4	1.9	0.0	0.0	0.0	0.0
77.5°	221.2	50.8	27.3	22.6	17.9	9.4	1.9	0.0	0.0	0.0	0.0
80°	83.8	35.8	23.5	19.8	16.9	9.4	1.9	0.0	0.0	0.0	0.0
82.5°	44.2	29.2	22.6	19.8	16.0	8.5	0.9	0.0	0.0	0.0	0.0
85°	21.6	9.4	11.3	11.3	13.2	7.5	0.9	0.0	0.0	0.0	0.0
87.5°	4.7	0.0	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)