

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: P1209007

Luminaire Tested: UPW-SA2-090-727-U-T4W-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-727-U-T4W-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7229 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

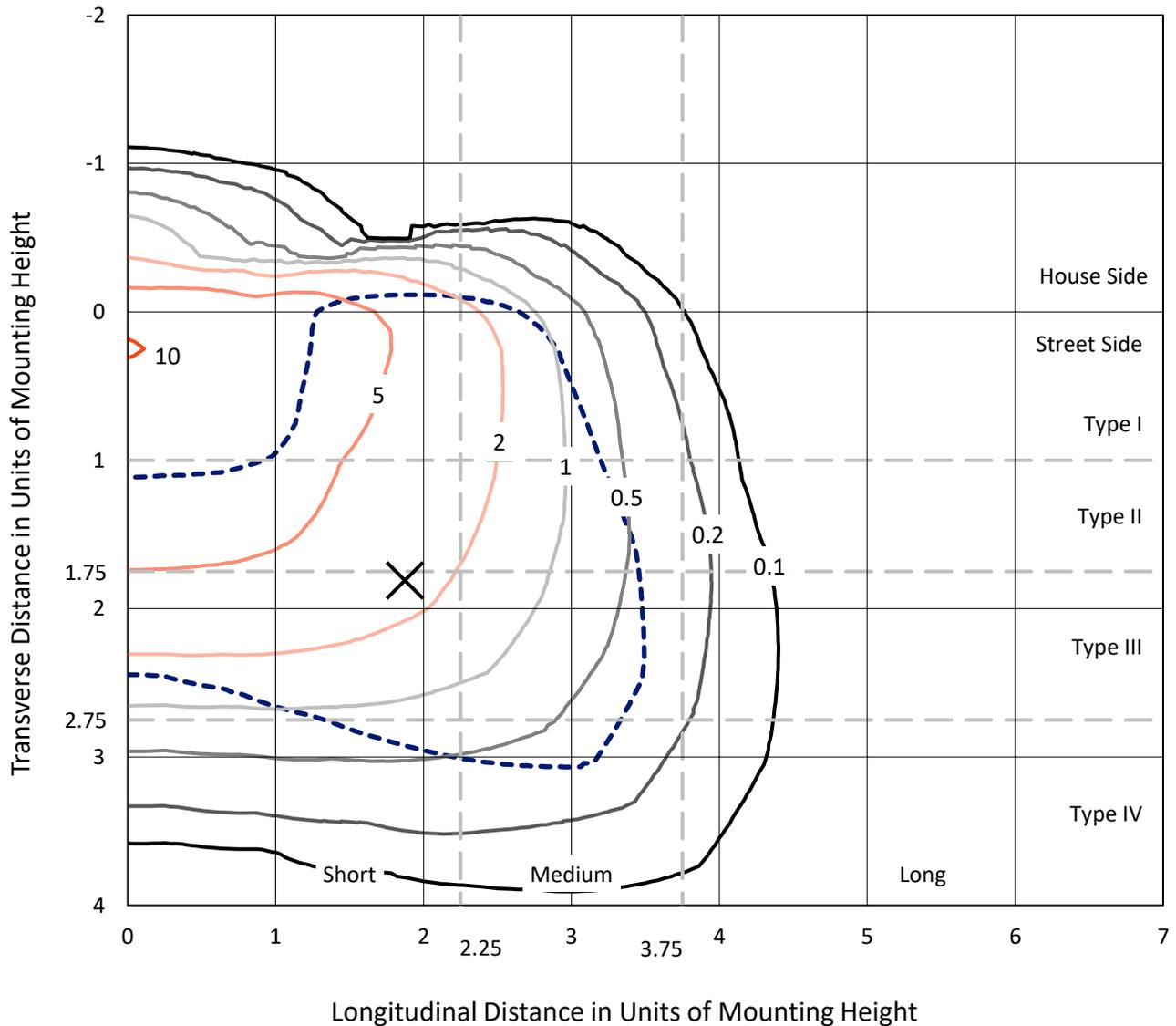
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

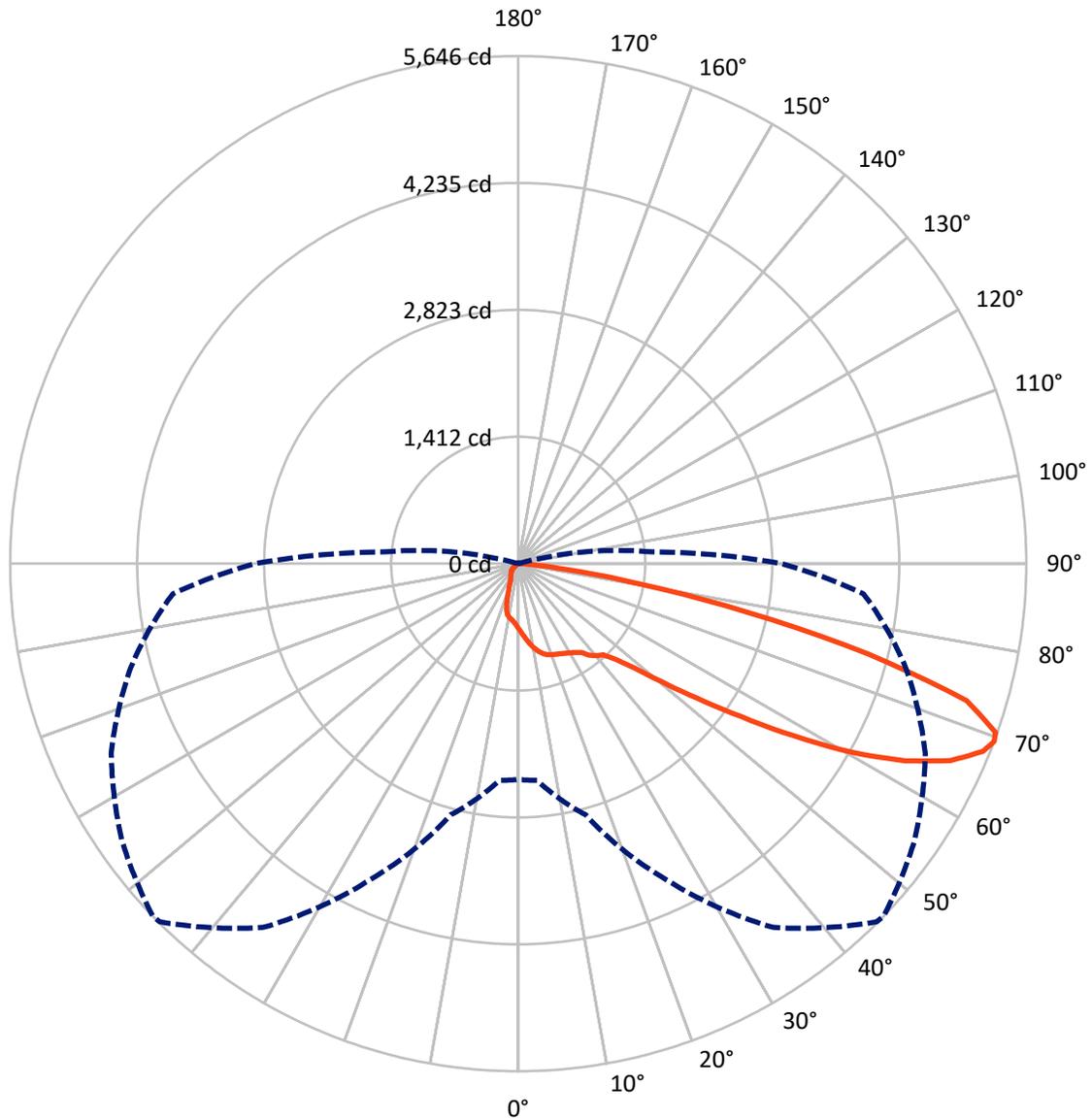
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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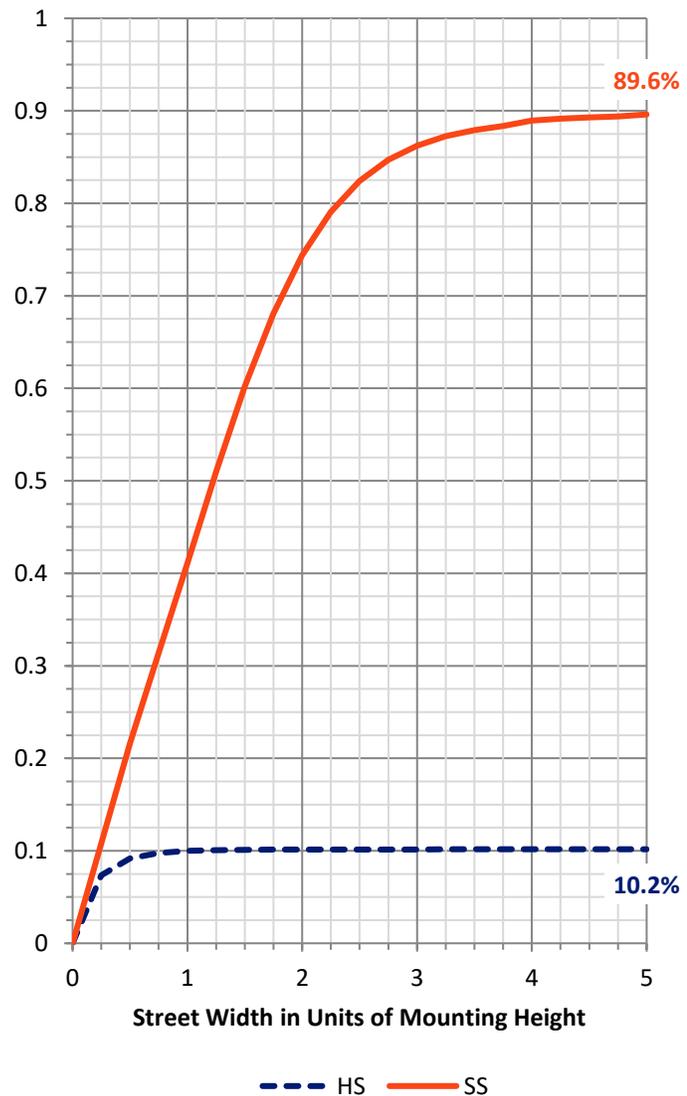
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	741.9	0.0	741.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	6487.1	0.0	6487.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	7229.0	0.0	7229.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	1.0
10°-20°	218.7	3.0
20°-30°	344.0	4.8
30°-40°	493.3	6.8
40°-50°	852.5	11.8
50°-60°	1684.3	23.3
60°-70°	2353.9	32.6
70°-80°	1137.2	15.7
80°-90°	73.1	1.0
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°	7229.0	100.0
0°-180°	7229.0	100.0

Coefficient of Utilization



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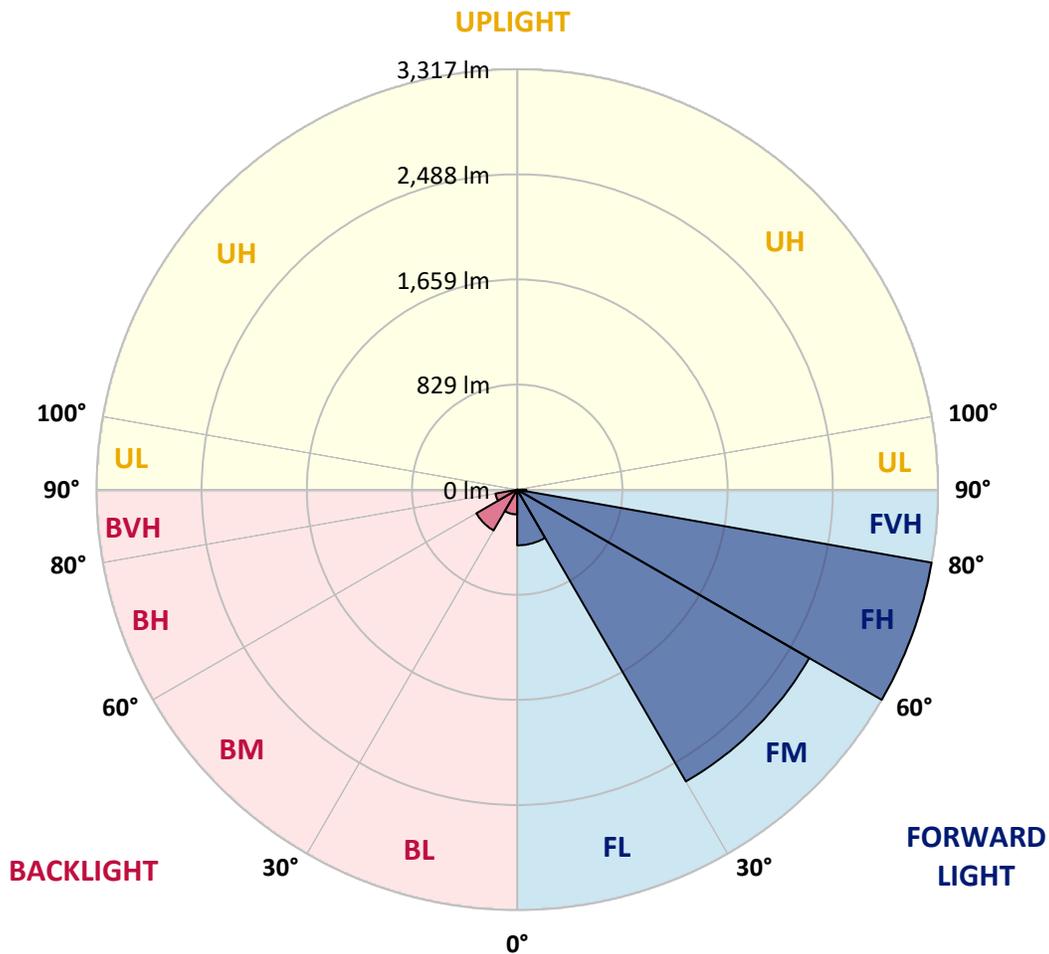
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	439.2	6.1			
FM	(30°-60°)	2658.3	36.8			
FH	(60°-80°)	3317.1	45.9			G2/5000
FVH	(80°-90°)	72.5	1.0			G1/100
BL	(0°-30°)	195.5	2.7	B1/500		
BM	(30°-60°)	371.8	5.1	B1/1000		
BH	(60°-80°)	174.0	2.4	B1/500		G1/500
BVH	(80°-90°)	0.6	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°	45°	46°	55°	65°	75°	85°
0°	724.3	724.3	724.3	724.3	724.3	724.3	724.3	724.3	724.3	724.3	724.3
2.5°	804.6	803.6	798.9	796.9	785.3	778.5	775.8	767.4	755.2	743.0	729.4
5°	896.2	895.8	887.0	878.5	856.8	836.5	832.8	813.1	785.7	759.9	734.1
7.5°	989.7	985.3	976.5	960.2	928.7	896.2	893.1	865.3	826.3	789.1	752.1
10°	1069.0	1066.3	1054.8	1030.0	993.1	956.2	952.4	918.2	874.1	828.4	781.3
12.5°	1130.7	1128.7	1113.4	1082.6	1043.3	1005.0	999.9	969.4	922.3	871.1	815.5
15°	1168.3	1167.3	1148.7	1115.8	1077.2	1043.9	1039.5	1012.8	969.0	915.5	852.8
17.5°	1177.1	1177.5	1158.2	1124.9	1093.1	1069.4	1066.0	1045.6	1009.0	955.8	890.1
20°	1157.5	1161.6	1144.3	1115.5	1095.8	1083.3	1080.5	1068.3	1037.5	987.3	919.9
22.5°	1129.7	1131.7	1119.9	1100.5	1092.4	1094.8	1093.4	1086.6	1060.5	1014.5	949.4
25°	1112.7	1112.7	1105.6	1089.4	1094.8	1109.4	1109.7	1108.3	1087.7	1047.7	985.3
27.5°	1112.1	1110.0	1101.9	1089.7	1104.6	1127.0	1128.3	1137.5	1124.6	1088.0	1030.0
30°	1139.2	1136.8	1119.5	1103.6	1122.6	1146.6	1150.0	1170.0	1163.6	1131.7	1079.9
32.5°	1202.6	1194.1	1155.8	1129.7	1143.9	1172.7	1177.1	1209.0	1219.2	1185.6	1128.0
35°	1289.3	1262.6	1207.3	1179.2	1180.5	1210.7	1214.8	1261.5	1291.7	1235.1	1165.3
37.5°	1409.0	1395.8	1305.9	1230.7	1236.8	1282.6	1294.4	1345.3	1336.8	1262.2	1207.6
40°	1671.3	1650.6	1555.1	1375.1	1290.7	1340.9	1344.6	1371.7	1372.4	1323.6	1295.8
42.5°	2028.6	2020.1	1919.4	1637.1	1396.8	1379.8	1386.6	1432.4	1483.5	1453.0	1451.7
45°	2424.1	2419.7	2312.9	1984.8	1611.3	1507.6	1516.1	1577.4	1675.4	1682.2	1725.2
47.5°	2742.4	2740.3	2679.0	2372.9	1939.8	1724.2	1726.9	1792.0	1964.2	2049.2	2118.0
50°	3032.5	3042.3	2993.9	2792.9	2387.2	2063.5	2057.0	2100.4	2377.0	2516.3	2601.7
52.5°	3435.9	3449.8	3313.8	3184.7	2856.6	2484.4	2479.4	2524.8	2873.2	2977.6	2992.9
55°	3792.1	3768.4	3660.9	3623.6	3429.1	3004.4	3003.0	3043.0	3353.2	3397.6	3425.7
57.5°	3949.4	3940.2	3992.1	4077.5	4028.7	3618.9	3615.8	3585.3	3782.6	3787.3	3873.8
60°	4048.7	4059.8	4218.8	4482.2	4603.8	4280.2	4260.5	4074.4	4192.7	4182.2	4274.7
62.5°	3974.1	3996.1	4282.2	4721.1	5034.3	4857.4	4829.6	4522.5	4543.2	4506.9	4593.0
65°	3578.2	3612.4	4081.2	4676.0	5247.8	5308.5	5280.4	4918.0	4821.4	4761.8	4714.0
67.5°	2905.4	2925.7	3415.2	4283.9	5151.6	5577.6	5571.9	5264.8	5031.6	4718.7	4347.9
69°	2401.1	2421.1	2892.2	3871.1	4939.7	5635.2	5646.4	5376.0	4991.6	4457.1	3852.4
70°	2033.7	2055.0	2493.9	3517.2	4694.0	5608.5	5628.5	5365.4	4877.0	4154.1	3417.6
72.5°	1066.7	1085.0	1535.4	2423.1	3826.7	5149.9	5210.6	4911.9	4134.1	3016.9	2020.8
75°	335.2	345.7	599.6	1266.6	2620.0	4004.3	4018.2	3853.1	2935.6	1659.5	841.6
77.5°	127.8	124.7	199.6	466.7	1324.6	2521.4	2606.5	2407.8	1540.5	586.7	194.2
80°	68.8	69.1	103.7	193.2	566.7	1295.8	1367.6	1167.0	547.4	183.0	44.7
82.5°	29.8	31.2	58.3	102.4	260.3	477.9	513.8	427.7	209.1	123.0	16.6
85°	6.4	7.1	28.1	55.6	106.1	134.2	140.7	138.6	133.2	95.6	6.4
87.5°	0.0	0.0	12.5	20.0	26.8	30.5	26.8	34.9	73.6	64.4	3.4
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°	724.3	724.3	724.3	724.3	724.3	724.3	724.3	724.3	724.3	724.3	724.3
2.5°	725.0	718.9	708.4	696.9	688.7	680.3	673.5	670.4	667.0	664.7	667.7
5°	723.6	711.8	691.4	671.8	657.5	646.0	636.5	632.8	629.1	626.4	626.0
7.5°	735.5	718.9	687.7	658.9	636.9	621.3	608.4	603.0	598.6	596.5	594.8
10°	758.2	736.9	695.2	657.5	629.1	602.6	574.8	553.5	539.6	533.2	530.8
12.5°	787.7	760.9	709.4	664.7	623.3	572.5	513.5	462.7	429.8	418.9	412.5
15°	822.3	789.1	728.0	673.8	602.3	509.4	409.4	343.0	312.5	306.4	299.6
17.5°	855.5	818.9	750.4	675.5	556.2	407.1	300.0	254.9	243.0	247.1	248.1
20°	884.6	848.4	772.4	660.6	472.5	305.4	232.2	221.0	225.4	233.2	234.5
22.5°	914.1	876.8	792.8	621.3	365.4	231.8	209.1	211.8	216.2	224.0	225.4
25°	950.1	911.4	811.8	549.1	274.2	197.3	198.6	202.7	207.1	214.2	214.9
27.5°	991.4	955.1	824.3	455.2	203.4	181.3	185.7	191.8	196.2	203.0	204.4
30°	1046.3	1012.8	828.4	357.9	170.5	167.1	169.1	176.6	183.0	189.1	190.1
32.5°	1097.8	1069.7	814.8	270.1	157.9	153.9	153.9	158.3	165.7	171.5	172.9
35°	1145.3	1127.0	771.4	197.6	148.5	141.7	138.3	138.3	143.0	147.8	149.1
37.5°	1208.0	1207.3	701.3	157.6	139.3	131.5	124.4	119.0	117.3	118.3	119.0
40°	1315.4	1316.5	609.8	141.3	131.5	121.0	110.2	100.3	91.2	88.1	87.8
42.5°	1483.2	1468.0	513.8	133.5	124.7	110.2	93.9	80.7	66.4	62.0	61.7
45°	1749.6	1659.1	412.2	126.4	117.6	98.0	77.6	59.7	48.1	44.7	44.7
47.5°	2137.7	1910.3	319.3	118.6	108.1	84.1	58.6	43.0	35.2	33.6	33.9
50°	2539.0	2156.3	244.7	108.8	96.6	69.5	43.4	31.2	26.8	26.8	27.1
52.5°	2894.9	2336.7	190.8	98.3	82.4	54.6	32.9	24.4	22.4	22.0	22.4
55°	3228.1	2452.9	146.1	86.1	65.4	40.7	25.1	20.0	18.6	18.0	17.6
57.5°	3549.4	2510.5	109.5	69.5	47.5	29.5	20.0	16.9	15.6	14.6	14.2
60°	3763.3	2463.8	75.2	51.2	32.9	21.4	16.6	14.6	12.9	11.9	11.5
62.5°	3883.9	2336.0	48.5	36.9	23.4	15.9	13.2	12.2	9.8	8.8	8.8
65°	3835.1	2125.2	33.9	26.4	16.9	11.9	9.8	9.8	7.1	5.8	5.4
67.5°	3398.6	1795.4	25.8	19.7	12.2	8.8	7.5	8.5	4.4	2.7	2.7
69°	2924.1	1488.0	22.0	16.3	10.2	7.1	6.4	7.8	3.1	2.0	1.7
70°	2541.4	1283.6	20.0	14.2	8.5	6.1	5.8	7.5	3.1	1.7	1.4
72.5°	1520.5	715.8	15.3	10.2	5.4	4.7	4.7	8.5	3.1	1.7	1.4
75°	614.5	252.2	11.2	7.1	4.1	4.1	5.8	10.8	2.7	1.4	1.0
77.5°	139.3	55.2	6.4	4.4	2.7	4.1	6.8	8.5	1.7	0.7	0.0
80°	33.9	13.6	4.1	2.7	1.7	3.1	5.1	4.7	0.3	0.0	0.0
82.5°	11.2	4.7	1.7	1.4	0.3	1.0	2.4	1.4	0.0	0.0	0.0
85°	4.7	2.7	0.7	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0
87.5°	3.1	1.0	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)