

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P1211551

Luminaire Tested: **ARCH4-40-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-40-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7386 lumens
Efficiency: N/A
Efficacy: 168.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 43.8
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: 24 FT

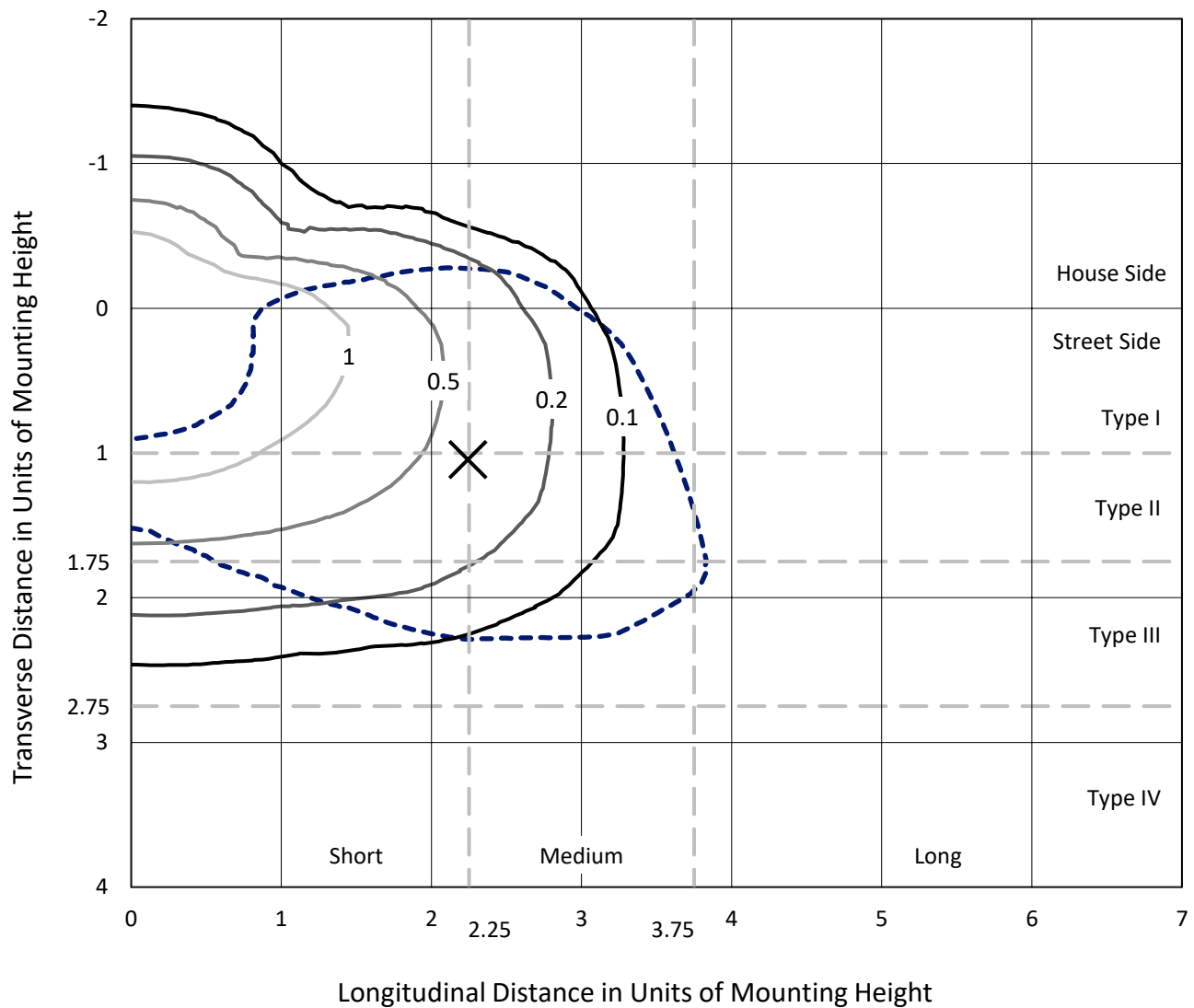


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Iso-Footcandle Lines of Horizontal Illumination

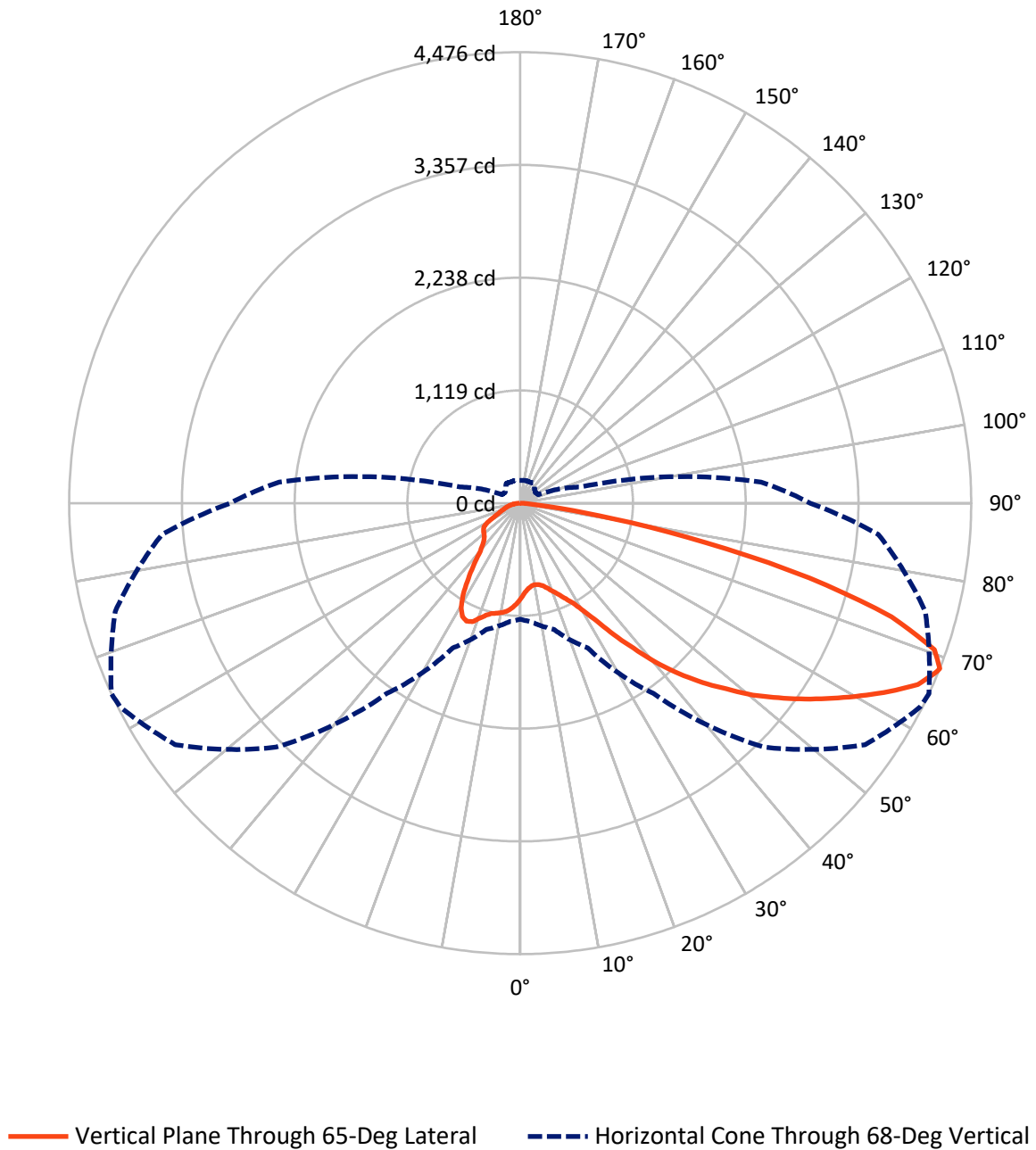
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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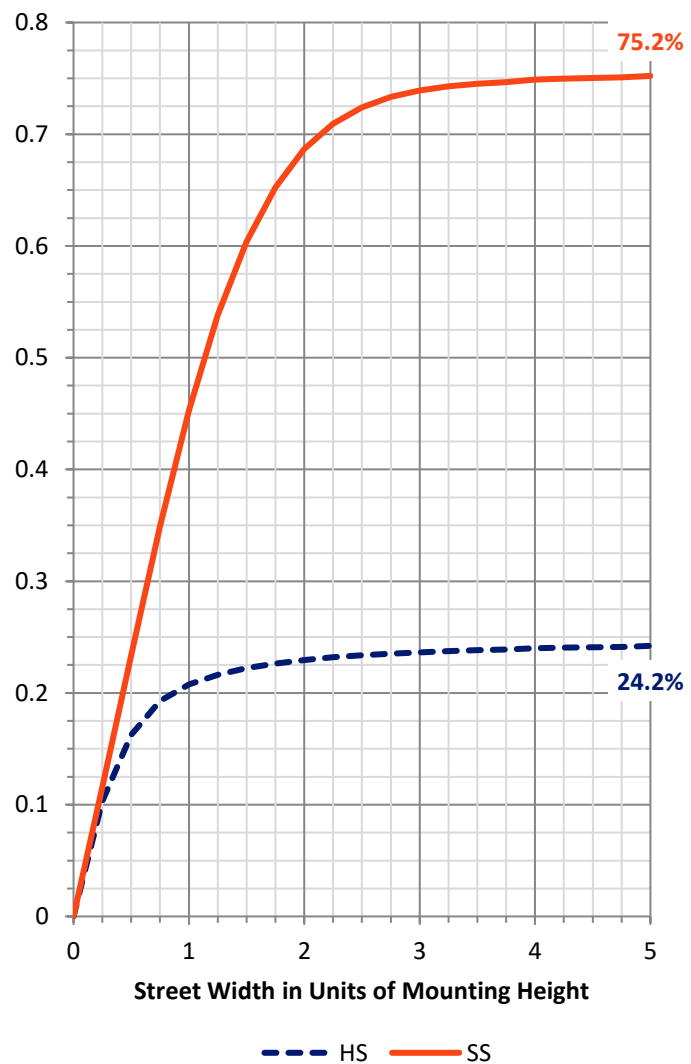
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1810.8	0.0	1810.8
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	5575.2	0.0	5575.2
	% Fixture	75.5	0.0	75.5
Total	Lumens	7386.0	0.0	7386.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	1.2
10°-20°	293.7	4.0
20°-30°	531.6	7.2
30°-40°	836.2	11.3
40°-50°	1245.5	16.9
50°-60°	1633.8	22.1
60°-70°	1786.6	24.2
70°-80°	884.1	12.0
80°-90°	84.3	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°	7386.0	100.0
0°-180°	7386.0	100.0

Coefficient of Utilization



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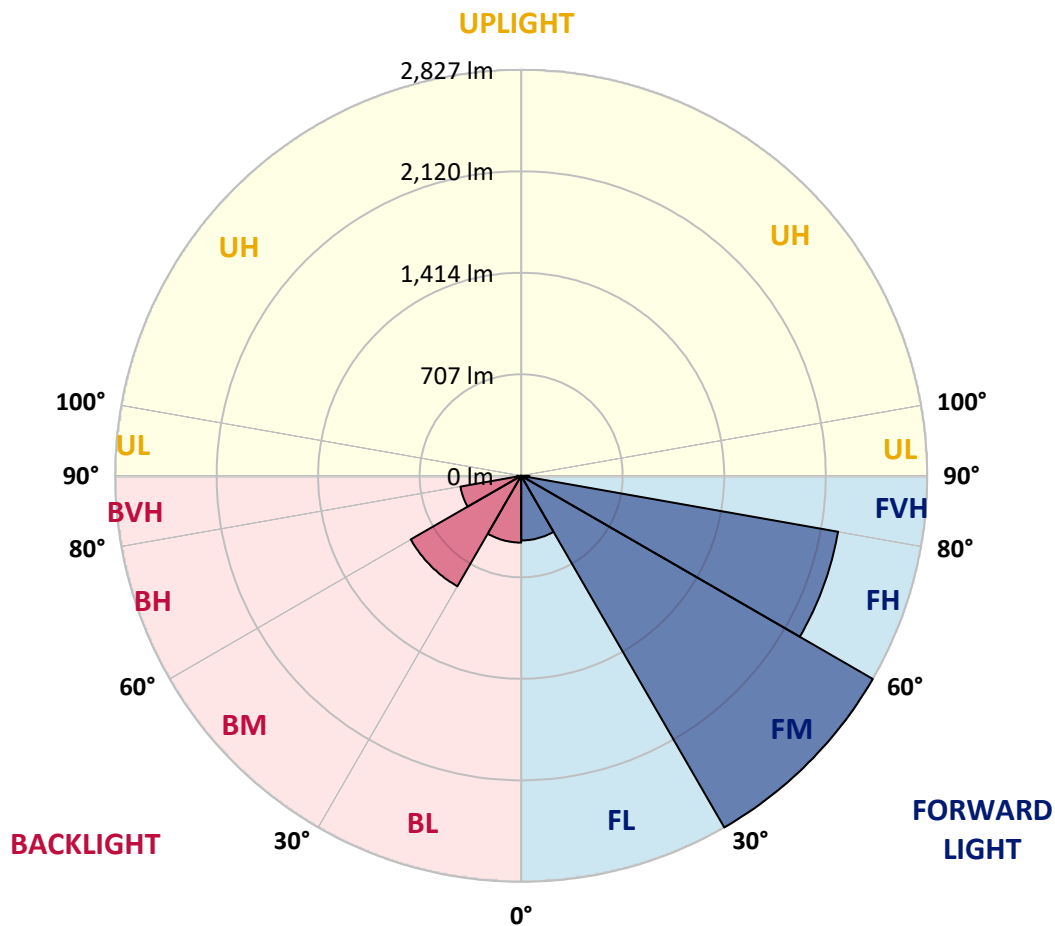
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	450.3	6.1			
FM	(30°-60°)	2827.3	38.3			
FH	(60°-80°)	2240.9	30.3			G2/5000
FVH	(80°-90°)	56.7	0.8			G1/100
BL	(0°-30°)	465.2	6.3	B1/500		
BM	(30°-60°)	888.2	12.0	B1/1000		
BH	(60°-80°)	429.8	5.8	B1/500		G1/500
BVH	(80°-90°)	27.6	0.4			G1/100
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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8
2.5°	823.8	821.9	826.7	831.5	841.9	854.3	871.5	885.7	887.6	914.3	935.3
5°	775.3	772.4	777.2	782.9	787.6	802.9	821.0	841.9	850.5	889.6	934.3
7.5°	780.0	779.1	781.0	779.1	779.1	785.7	798.1	819.1	828.6	875.3	939.1
10°	807.6	809.6	810.5	804.8	799.1	796.2	800.0	814.3	821.0	876.2	960.0
12.5°	853.4	856.2	857.2	846.7	839.1	826.7	820.0	825.7	830.5	885.7	989.6
15°	915.3	917.2	910.5	903.8	884.8	869.6	853.4	848.6	850.5	905.7	1022.9
17.5°	987.7	984.8	984.8	968.6	943.8	920.0	893.4	889.6	889.6	938.1	1070.5
20°	1066.7	1069.6	1061.0	1039.1	1014.3	977.2	950.5	933.4	935.3	975.3	1128.6
22.5°	1181.0	1185.8	1162.9	1131.5	1093.4	1050.5	1012.4	984.8	985.7	1023.8	1188.6
25°	1303.9	1305.8	1291.5	1249.6	1198.1	1137.2	1086.7	1051.5	1050.5	1078.1	1265.8
27.5°	1429.6	1438.1	1409.6	1369.6	1321.9	1245.8	1179.1	1131.5	1123.8	1161.0	1362.0
30°	1559.1	1569.6	1542.0	1502.9	1443.9	1379.1	1300.0	1244.8	1240.0	1289.6	1490.5
32.5°	1689.6	1692.4	1670.5	1638.1	1584.8	1523.9	1460.0	1399.1	1394.3	1475.3	1657.2
35°	1796.3	1804.8	1789.6	1782.0	1742.9	1686.7	1624.8	1589.6	1602.0	1705.8	1873.4
37.5°	1924.8	1933.4	1916.3	1914.3	1902.0	1853.4	1810.5	1813.4	1825.8	1966.7	2101.0
40°	2110.5	2120.1	2076.3	2057.2	2057.2	2009.6	1995.3	2062.9	2079.1	2223.9	2338.2
42.5°	2267.7	2282.9	2257.2	2244.8	2207.7	2174.4	2191.5	2286.7	2314.4	2469.6	2544.8
45°	2343.9	2355.3	2385.8	2422.0	2385.8	2327.7	2392.5	2500.1	2539.1	2696.3	2751.5
47.5°	2384.8	2395.3	2430.6	2527.7	2552.5	2503.9	2595.3	2729.6	2756.3	2921.0	2948.7
50°	2390.6	2423.9	2469.6	2566.8	2680.1	2686.8	2799.1	2963.0	2994.4	3142.0	3122.0
52.5°	2343.9	2357.2	2451.5	2615.3	2741.0	2855.3	3021.1	3186.8	3209.6	3349.6	3275.3
55°	2267.7	2286.7	2381.0	2603.9	2800.1	3015.3	3246.8	3406.8	3432.5	3551.5	3417.3
57.5°	2199.1	2208.6	2309.6	2570.6	2859.1	3175.3	3447.7	3636.3	3653.5	3728.7	3522.0
60°	2122.9	2133.4	2234.4	2499.1	2903.0	3296.3	3657.3	3867.7	3883.0	3915.4	3643.9
62.5°	1925.8	1953.4	2080.1	2381.0	2891.5	3434.4	3881.1	4096.3	4115.4	4080.1	3740.1
65°	1563.9	1602.9	1758.2	2113.4	2784.9	3523.9	4063.9	4306.8	4339.2	4203.9	3765.8
67.5°	1214.3	1241.9	1366.7	1677.2	2410.6	3479.2	4182.0	4451.6	4461.1	4183.9	3623.0
68°	1151.5	1179.1	1298.1	1585.8	2306.7	3425.8	4179.2	4455.4	4476.3	4162.0	3567.7
70°	881.0	912.4	1025.7	1256.2	1859.1	3086.8	4004.9	4364.0	4361.1	3897.3	3224.9
72.5°	550.5	568.6	646.7	792.4	1229.6	2348.6	3399.2	3848.7	3856.3	3177.2	2473.4
75°	349.5	349.5	345.7	383.8	630.5	1338.1	2526.8	2963.0	2968.7	2224.8	1559.1
77.5°	303.8	295.2	254.3	215.2	251.4	520.0	1495.3	1913.4	1882.0	1198.1	740.0
80°	256.2	241.9	208.6	173.3	161.9	162.9	574.3	971.5	929.6	431.4	245.7
82.5°	184.8	172.4	157.1	136.2	124.8	97.1	120.0	281.0	274.3	124.8	80.0
85°	100.0	90.5	88.6	89.5	75.2	60.0	50.5	61.9	61.9	54.3	45.7
87.5°	35.2	25.7	30.5	34.3	29.5	24.8	20.0	23.8	24.8	23.8	21.9
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°	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8
2.5°	947.7	957.2	980.0	1000.0	1014.3	1026.7	1033.4	1036.2	1042.9	1043.8	1041.9
5°	955.3	980.0	1014.3	1043.8	1060.0	1066.7	1068.6	1069.6	1066.7	1068.6	1066.7
7.5°	975.3	1006.7	1055.3	1081.0	1083.8	1073.4	1074.3	1070.5	1074.3	1078.1	1078.1
10°	1005.7	1045.7	1091.5	1101.0	1088.6	1082.9	1094.3	1117.2	1124.8	1135.3	1135.3
12.5°	1045.7	1093.4	1125.8	1117.2	1105.8	1124.8	1158.1	1181.0	1188.6	1192.4	1189.6
15°	1091.5	1142.9	1159.1	1130.5	1151.5	1192.4	1203.8	1190.5	1171.5	1162.9	1167.7
17.5°	1149.6	1192.4	1182.9	1163.8	1211.5	1217.2	1180.0	1137.2	1106.7	1095.3	1102.9
20°	1210.5	1247.7	1203.8	1212.4	1241.9	1181.0	1110.5	1055.3	1028.6	1023.8	1031.5
22.5°	1275.3	1299.1	1224.8	1268.6	1224.8	1101.0	1016.2	987.7	981.0	988.6	995.3
25°	1348.6	1345.8	1261.0	1285.8	1161.0	1002.9	952.4	950.5	950.5	955.3	964.8
27.5°	1431.5	1386.7	1297.2	1262.9	1050.5	921.9	912.4	913.4	910.5	911.5	916.2
30°	1527.7	1442.0	1337.2	1187.7	926.7	861.0	857.2	854.3	847.6	845.7	847.6
32.5°	1648.6	1500.1	1378.1	1063.8	818.1	798.1	796.2	781.0	764.8	762.9	769.5
35°	1802.0	1605.8	1399.1	908.6	728.6	727.6	721.0	697.2	676.2	676.2	671.5
37.5°	1977.2	1742.0	1407.7	757.2	654.3	659.1	640.0	609.5	593.4	583.8	586.7
40°	2156.3	1897.2	1406.7	624.8	589.5	590.5	576.2	539.1	499.1	475.3	481.0
42.5°	2328.6	2038.2	1382.0	554.3	537.2	534.3	522.9	472.4	439.1	420.0	421.0
45°	2466.7	2183.9	1343.9	512.4	489.5	494.3	468.6	438.1	407.6	390.5	389.5
47.5°	2604.8	2294.4	1282.9	486.7	454.3	445.7	435.3	414.3	391.4	372.4	373.3
50°	2730.6	2388.7	1225.8	469.5	421.9	400.0	401.9	389.5	369.5	352.4	351.4
52.5°	2819.1	2450.6	1194.3	460.0	382.9	359.1	365.7	359.1	340.0	327.6	326.7
55°	2907.7	2498.2	1204.8	447.6	340.0	321.0	332.4	330.5	320.0	316.2	317.2
57.5°	2979.1	2534.4	1241.9	424.8	299.1	287.6	306.7	301.0	293.3	294.3	294.3
60°	3048.7	2581.0	1285.8	372.4	263.8	264.8	282.9	272.4	267.6	276.2	277.2
62.5°	3121.1	2631.5	1249.6	296.2	233.3	240.0	261.0	252.4	254.3	266.7	270.5
65°	3112.5	2626.8	1018.1	242.9	206.7	220.0	251.4	248.6	249.5	254.3	256.2
67.5°	2937.2	2459.1	700.0	206.7	187.6	203.8	243.8	232.4	233.3	230.5	231.4
68°	2878.2	2400.1	617.2	201.0	183.8	200.0	240.0	229.5	230.5	227.6	226.7
70°	2556.3	2055.3	390.5	177.1	170.5	189.5	221.0	217.2	216.2	214.3	214.3
72.5°	1948.6	1517.2	205.7	153.3	155.2	173.3	197.1	204.8	200.0	201.0	206.7
75°	1290.5	912.4	142.9	131.4	136.2	148.6	175.2	190.5	185.7	188.6	185.7
77.5°	682.9	491.4	114.3	111.4	111.4	120.0	144.8	168.6	168.6	166.7	163.8
80°	223.8	173.3	91.4	87.6	89.5	94.3	116.2	138.1	141.0	137.1	135.2
82.5°	75.2	80.0	68.6	63.8	65.7	69.5	87.6	105.7	106.7	99.1	97.1
85°	46.7	53.3	42.9	41.9	41.9	42.9	53.3	58.1	53.3	47.6	49.5
87.5°	21.9	26.7	20.0	17.1	14.3	12.4	9.5	3.8	3.8	1.9	1.9
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)