

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: P1210183

Luminaire Tested: **ARCH2-40-740-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210183
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: ARCH2-40-740-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6832 lumens
Efficiency: N/A
Efficacy: 154.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 44.1
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

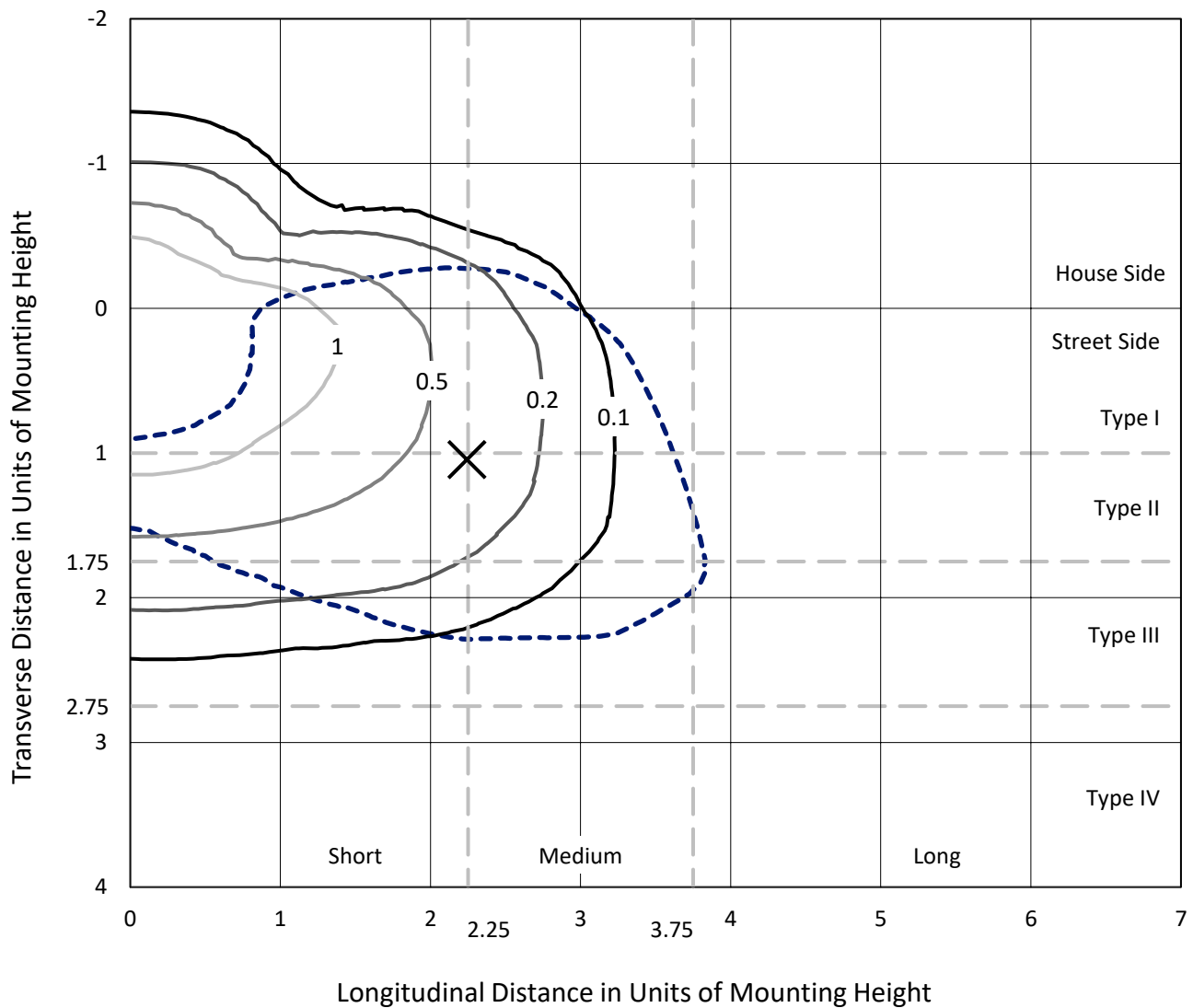


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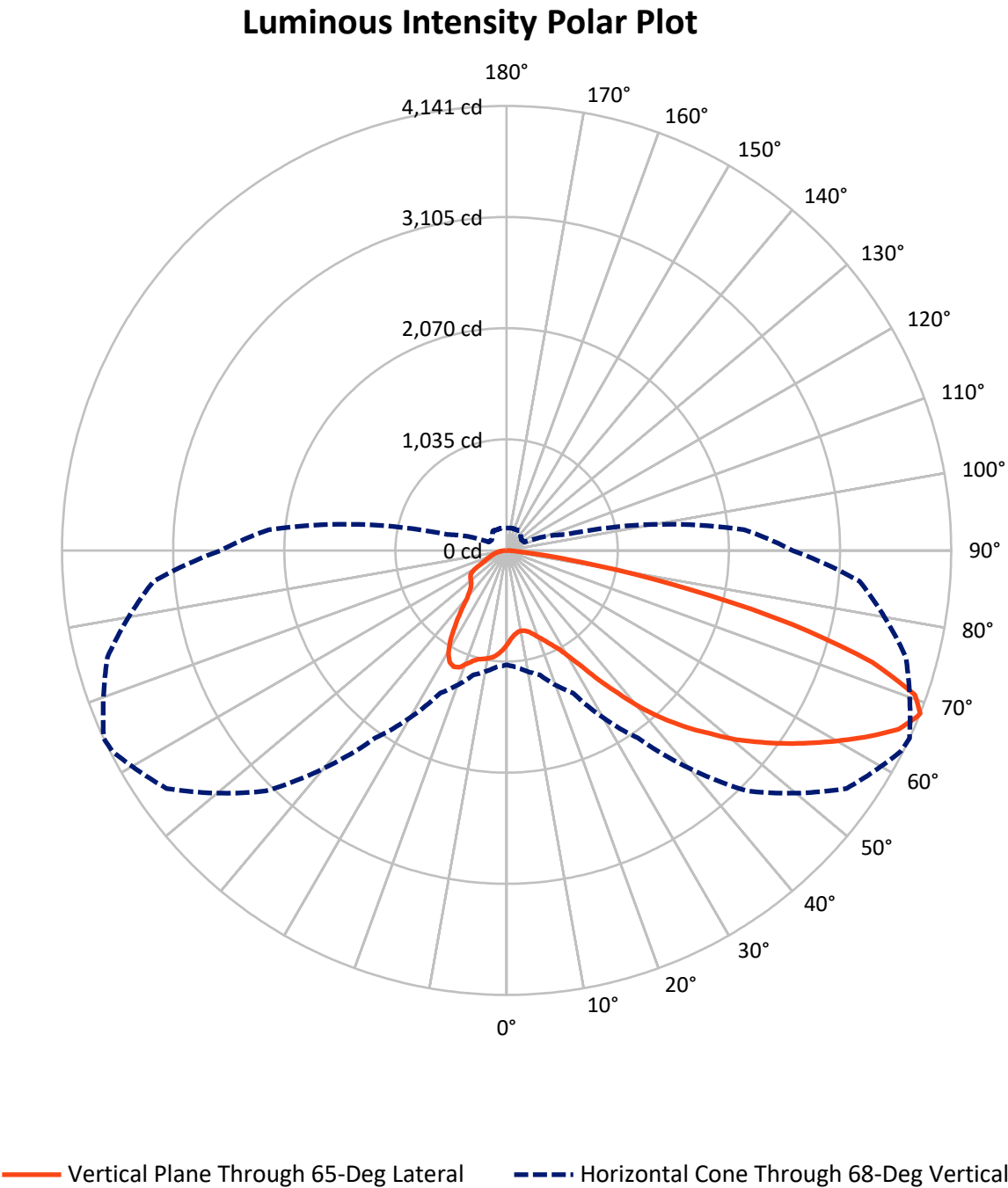
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1675.0	0.0	1675.0
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	5157.0	0.0	5157.0
	% Fixture	75.5	0.0	75.5
Total	Lumens	6832.0	0.0	6832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.4	1.2
10°-20°	271.7	4.0
20°-30°	491.7	7.2
30°-40°	773.5	11.3
40°-50°	1152.0	16.9
50°-60°	1511.2	22.1
60°-70°	1652.6	24.2
70°-80°	817.8	12.0
80°-90°	78.0	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°	6832.0	100.0
0°-180°	6832.0	100.0

Coefficient of Utilization



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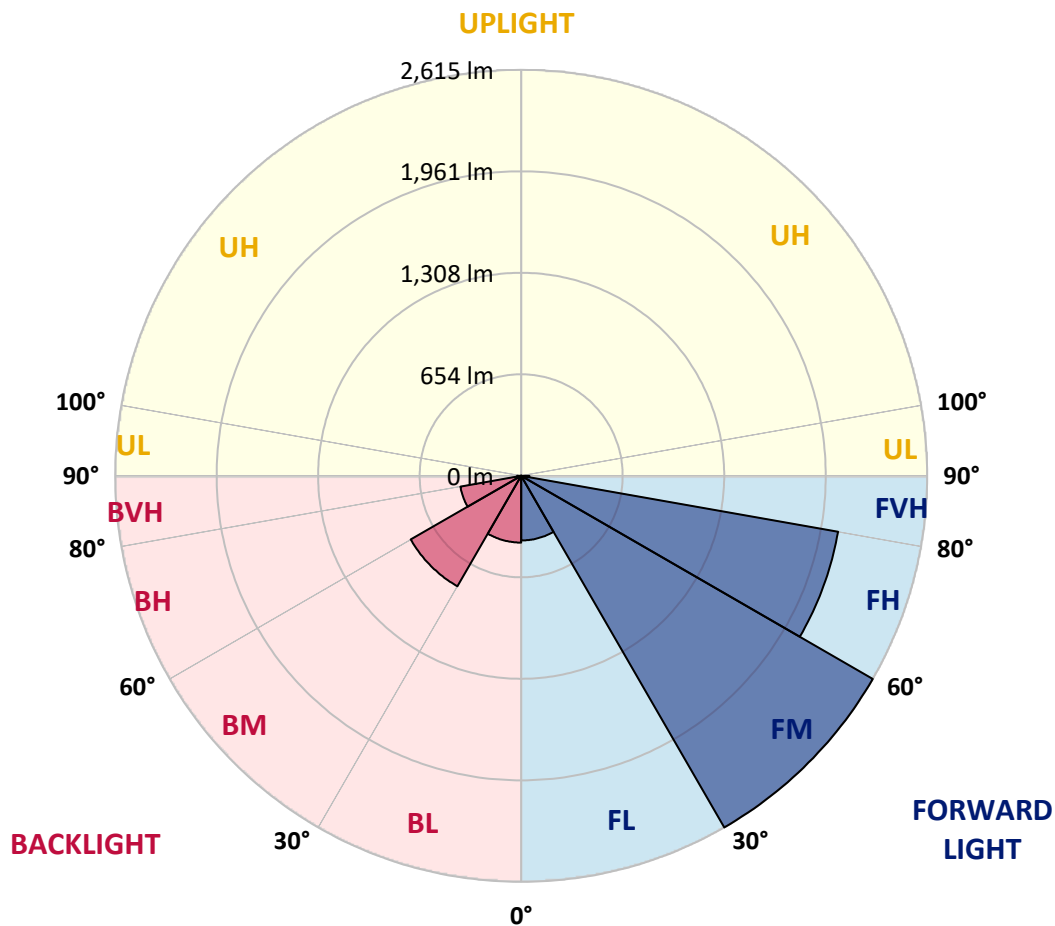
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	416.5	6.1			
FM	(30°-60°)	2615.2	38.3			
FH	(60°-80°)	2072.8	30.3			G2/5000
FVH	(80°-90°)	52.5	0.8			G1/100
BL	(0°-30°)	430.3	6.3	B1/500		
BM	(30°-60°)	821.6	12.0	B1/1000		
BH	(60°-80°)	397.6	5.8	B1/500		G1/500
BVH	(80°-90°)	25.5	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°	873.0	873.0	873.0	873.0	873.0	873.0	873.0	873.0	873.0	873.0	873.0
2.5°	762.0	760.3	764.7	769.1	778.8	790.2	806.1	819.3	821.1	845.7	865.1
5°	717.1	714.5	718.9	724.2	728.6	742.7	759.4	778.8	786.7	822.8	864.2
7.5°	721.5	720.6	722.4	720.6	720.6	726.8	738.3	757.6	766.4	809.6	868.6
10°	747.1	748.8	749.7	744.4	739.1	736.5	740.0	753.2	759.4	810.5	888.0
12.5°	789.4	792.0	792.9	783.2	776.1	764.7	758.5	763.8	768.2	819.3	915.3
15°	846.6	848.4	842.2	836.0	818.4	804.3	789.4	784.9	786.7	837.8	946.2
17.5°	913.6	910.9	910.9	896.0	873.0	851.0	826.4	822.8	822.8	867.8	990.2
20°	986.7	989.3	981.4	961.1	938.2	903.9	879.2	863.4	865.1	902.1	1044.0
22.5°	1092.4	1096.8	1075.7	1046.6	1011.4	971.7	936.5	910.9	911.8	947.0	1099.5
25°	1206.1	1207.8	1194.6	1155.8	1108.3	1051.9	1005.2	972.6	971.7	997.3	1170.8
27.5°	1322.3	1330.3	1303.8	1266.8	1222.8	1152.3	1090.6	1046.6	1039.6	1073.9	1259.8
30°	1442.2	1451.8	1426.3	1390.2	1335.6	1275.7	1202.5	1151.4	1147.0	1192.8	1378.7
32.5°	1562.9	1565.5	1545.2	1515.3	1465.9	1409.6	1350.5	1294.2	1289.7	1364.6	1532.9
35°	1661.5	1669.4	1655.4	1648.3	1612.2	1560.2	1502.9	1470.3	1481.8	1577.8	1732.9
37.5°	1780.5	1788.4	1772.5	1770.8	1759.3	1714.4	1674.7	1677.4	1688.8	1819.2	1943.4
40°	1952.2	1961.1	1920.5	1902.9	1902.9	1858.9	1845.6	1908.2	1923.2	2057.1	2162.8
42.5°	2097.6	2111.7	2087.9	2076.5	2042.1	2011.3	2027.1	2115.2	2140.8	2284.4	2354.0
45°	2168.1	2178.7	2206.8	2240.3	2206.8	2153.1	2213.0	2312.6	2348.7	2494.0	2545.1
47.5°	2206.0	2215.7	2248.2	2338.1	2361.0	2316.1	2400.7	2524.9	2549.5	2702.0	2727.5
50°	2211.2	2242.1	2284.4	2374.2	2479.1	2485.2	2589.2	2740.7	2769.8	2906.3	2887.8
52.5°	2168.1	2180.4	2267.6	2419.2	2535.4	2641.2	2794.5	2947.7	2968.9	3098.4	3029.7
55°	2097.6	2115.2	2202.4	2408.6	2590.1	2789.2	3003.2	3151.2	3175.0	3285.2	3160.9
57.5°	2034.2	2043.0	2136.4	2377.8	2644.7	2937.2	3189.1	3363.6	3379.4	3449.0	3257.8
60°	1963.7	1973.4	2066.8	2311.7	2685.2	3049.1	3382.9	3577.6	3591.7	3621.7	3370.6
62.5°	1781.3	1806.9	1924.1	2202.4	2674.6	3176.8	3590.0	3789.1	3806.7	3774.1	3459.6
65°	1446.6	1482.7	1626.3	1954.9	2576.0	3259.6	3759.1	3983.8	4013.7	3888.6	3483.4
67.5°	1123.2	1148.8	1264.2	1551.4	2229.7	3218.2	3868.4	4117.7	4126.5	3870.1	3351.2
68°	1065.1	1090.6	1200.8	1466.8	2133.7	3168.9	3865.7	4121.2	4140.6	3849.9	3300.1
70°	814.9	844.0	948.8	1162.0	1719.7	2855.2	3704.5	4036.6	4034.0	3605.0	2983.0
72.5°	509.2	525.9	598.2	733.0	1137.3	2172.5	3144.2	3560.0	3567.1	2938.9	2287.9
75°	323.3	323.3	319.8	355.0	583.2	1237.8	2337.2	2740.7	2746.0	2058.0	1442.2
77.5°	281.0	273.1	235.2	199.1	232.6	481.0	1383.1	1769.9	1740.8	1108.3	684.5
80°	237.0	223.8	192.9	160.3	149.8	150.6	531.2	898.6	859.8	399.1	227.3
82.5°	170.9	159.5	145.4	126.0	115.4	89.9	111.0	259.9	253.7	115.4	74.0
85°	92.5	83.7	81.9	82.8	69.6	55.5	46.7	57.3	57.3	50.2	42.3
87.5°	32.6	23.8	28.2	31.7	27.3	22.9	18.5	22.0	22.9	22.0	20.3
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°	873.0	873.0	873.0	873.0	873.0	873.0	873.0	873.0	873.0	873.0	873.0
2.5°	876.6	885.4	906.5	925.0	938.2	949.7	955.9	958.5	964.7	965.5	963.8
5°	883.6	906.5	938.2	965.5	980.5	986.7	988.5	989.3	986.7	988.5	986.7
7.5°	902.1	931.2	976.1	999.9	1002.5	992.9	993.7	990.2	993.7	997.3	997.3
10°	930.3	967.3	1009.6	1018.4	1007.0	1001.7	1012.2	1033.4	1040.4	1050.1	1050.1
12.5°	967.3	1011.4	1041.3	1033.4	1022.8	1040.4	1071.3	1092.4	1099.5	1103.0	1100.3
15°	1009.6	1057.2	1072.1	1045.7	1065.1	1103.0	1113.6	1101.2	1083.6	1075.7	1080.1
17.5°	1063.3	1103.0	1094.2	1076.6	1120.6	1125.9	1091.5	1051.9	1023.7	1013.1	1020.2
20°	1119.7	1154.1	1113.6	1121.5	1148.8	1092.4	1027.2	976.1	951.5	947.0	954.1
22.5°	1179.6	1201.7	1132.9	1173.5	1132.9	1018.4	940.0	913.6	907.4	914.5	920.6
25°	1247.5	1244.8	1166.4	1189.3	1073.9	927.7	881.0	879.2	879.2	883.6	892.4
27.5°	1324.1	1282.7	1199.9	1168.2	971.7	852.8	844.0	844.9	842.2	843.1	847.5
30°	1413.1	1333.8	1236.9	1098.6	857.2	796.4	792.9	790.2	784.1	782.3	784.1
32.5°	1525.0	1387.5	1274.8	984.0	756.8	738.3	736.5	722.4	707.4	705.7	711.8
35°	1666.8	1485.3	1294.2	840.5	673.9	673.1	666.9	644.9	625.5	625.5	621.1
37.5°	1828.9	1611.3	1302.1	700.4	605.2	609.6	592.0	563.8	548.8	540.0	542.7
40°	1994.5	1754.9	1301.2	577.9	545.3	546.2	533.0	498.6	461.6	439.6	444.9
42.5°	2154.0	1885.3	1278.3	512.7	496.9	494.2	483.7	437.0	406.1	388.5	389.4
45°	2281.7	2020.1	1243.1	474.0	452.8	457.2	433.4	405.2	377.1	361.2	360.3
47.5°	2409.5	2122.3	1186.7	450.2	420.2	412.3	402.6	383.2	362.1	344.5	345.3
50°	2525.8	2209.5	1133.8	434.3	390.3	370.0	371.8	360.3	341.8	326.0	325.1
52.5°	2607.7	2266.7	1104.7	425.5	354.2	332.1	338.3	332.1	314.5	303.1	302.2
55°	2689.6	2310.8	1114.4	414.1	314.5	296.9	307.5	305.7	296.0	292.5	293.4
57.5°	2755.7	2344.3	1148.8	392.9	276.6	266.1	283.7	278.4	271.3	272.2	272.2
60°	2820.0	2387.4	1189.3	344.5	244.0	244.9	261.6	252.0	247.6	255.5	256.4
62.5°	2887.0	2434.1	1155.8	274.0	215.8	222.0	241.4	233.5	235.2	246.7	250.2
65°	2879.0	2429.7	941.8	224.6	191.2	203.5	232.6	229.9	230.8	235.2	237.0
67.5°	2716.9	2274.7	647.5	191.2	173.6	188.5	225.5	215.0	215.8	213.2	214.1
68°	2662.3	2220.1	570.9	185.9	170.0	185.0	222.0	212.3	213.2	210.6	209.7
70°	2364.5	1901.1	361.2	163.9	157.7	175.3	204.4	200.9	200.0	198.2	198.2
72.5°	1802.5	1403.4	190.3	141.8	143.6	160.3	182.4	189.4	185.0	185.9	191.2
75°	1193.7	844.0	132.1	121.6	126.0	137.4	162.1	176.2	171.8	174.4	171.8
77.5°	631.7	454.6	105.7	103.1	103.1	111.0	133.9	155.9	155.9	154.2	151.5
80°	207.0	160.3	84.6	81.0	82.8	87.2	107.5	127.7	130.4	126.9	125.1
82.5°	69.6	74.0	63.4	59.0	60.8	64.3	81.0	97.8	98.7	91.6	89.9
85°	43.2	49.3	39.6	38.8	38.8	39.6	49.3	53.7	49.3	44.0	45.8
87.5°	20.3	24.7	18.5	15.9	13.2	11.5	8.8	3.5	3.5	1.8	1.8
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)