

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: P1210747

Luminaire Tested: **ARCH3-60-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210747
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: ARCH3-60-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9733 lumens
Efficiency: N/A
Efficacy: 154.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 63.2
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

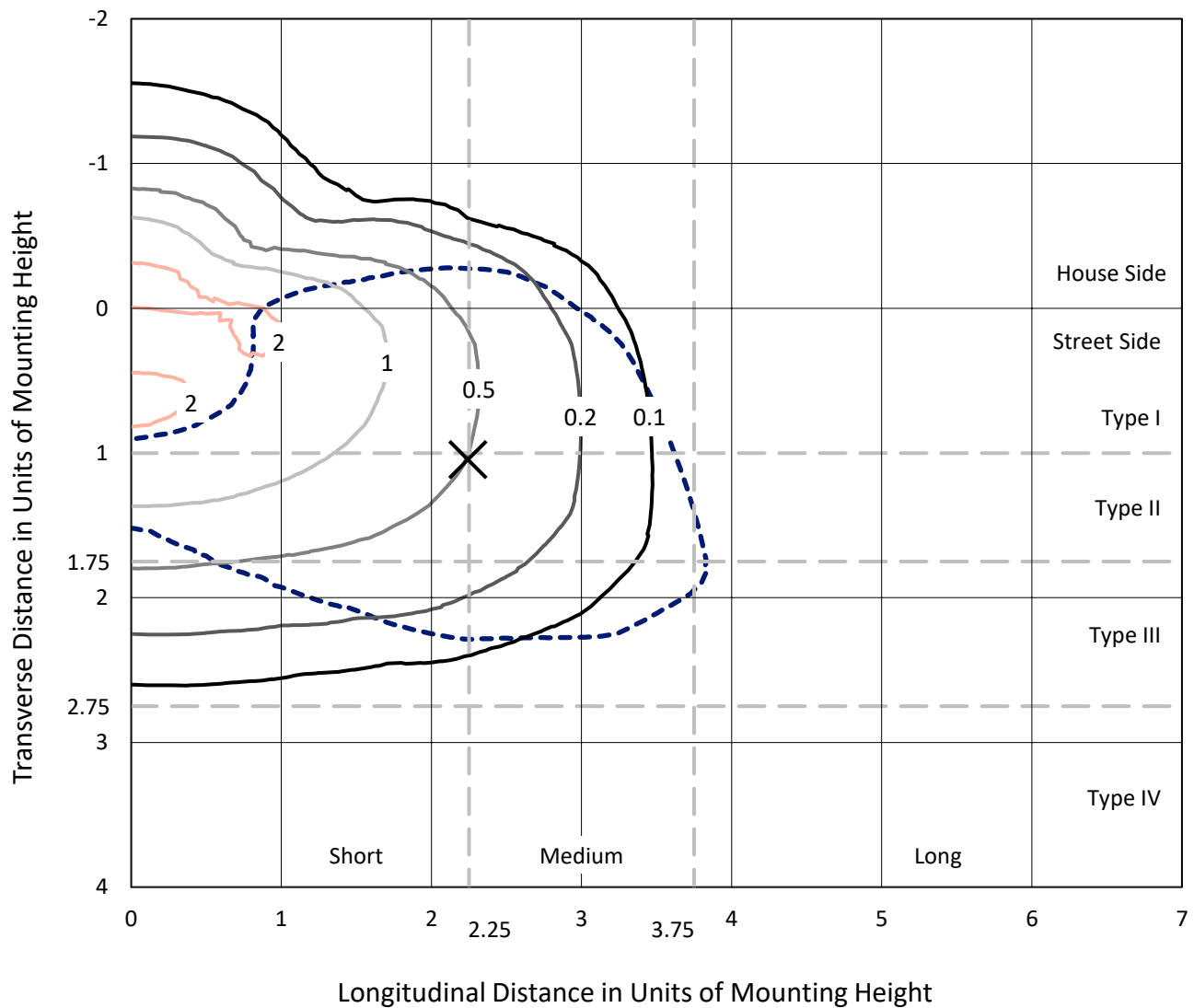


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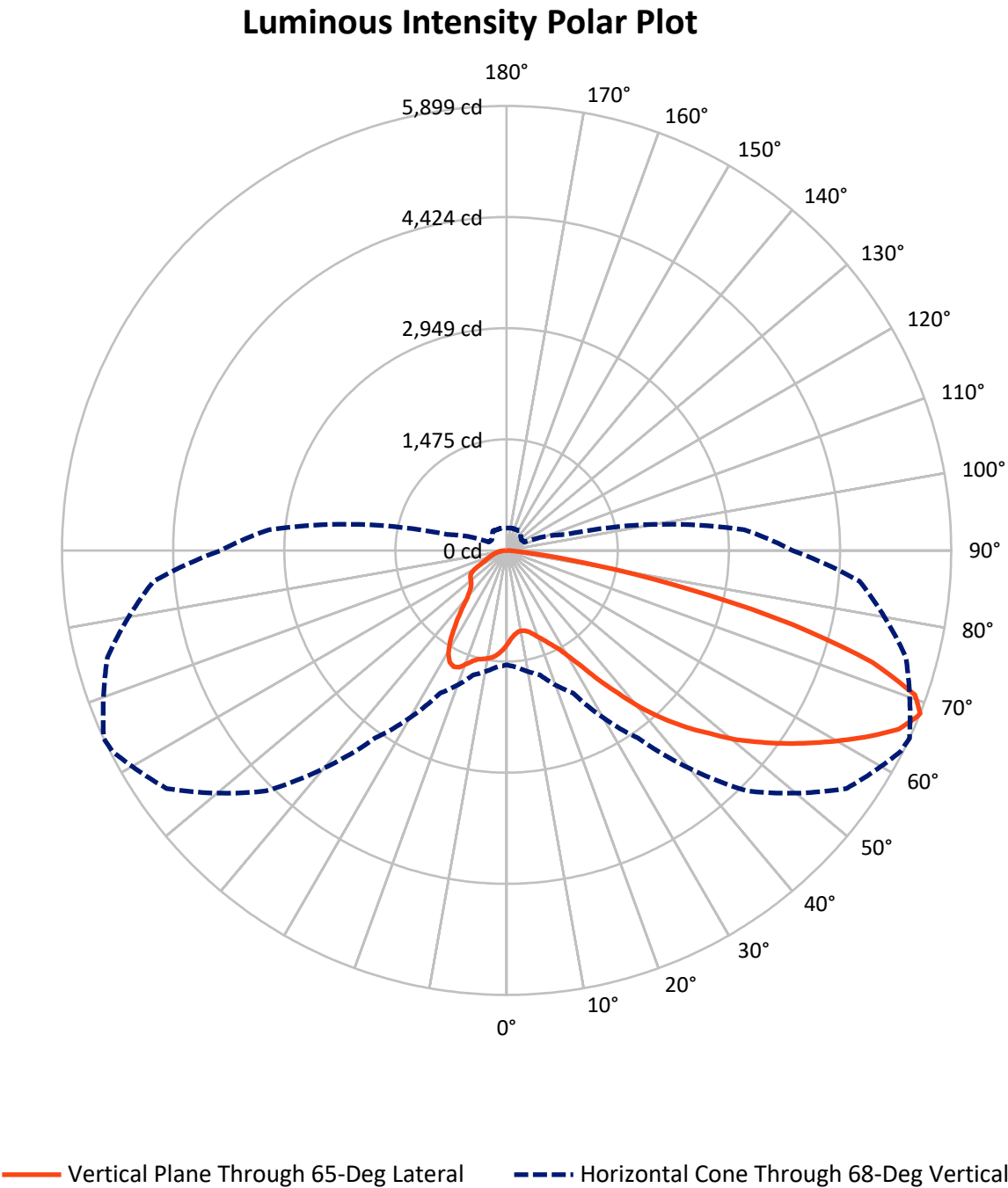
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2386.2	0.0	2386.2
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	7346.8	0.0	7346.8
	% Fixture	75.5	0.0	75.5
Total	Lumens	9733.0	0.0	9733.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.9	1.2
10°-20°	387.0	4.0
20°-30°	700.5	7.2
30°-40°	1101.9	11.3
40°-50°	1641.2	16.9
50°-60°	2152.9	22.1
60°-70°	2354.4	24.2
70°-80°	1165.0	12.0
80°-90°	111.1	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°	9733.0	100.0
0°-180°	9733.0	100.0

Coefficient of Utilization



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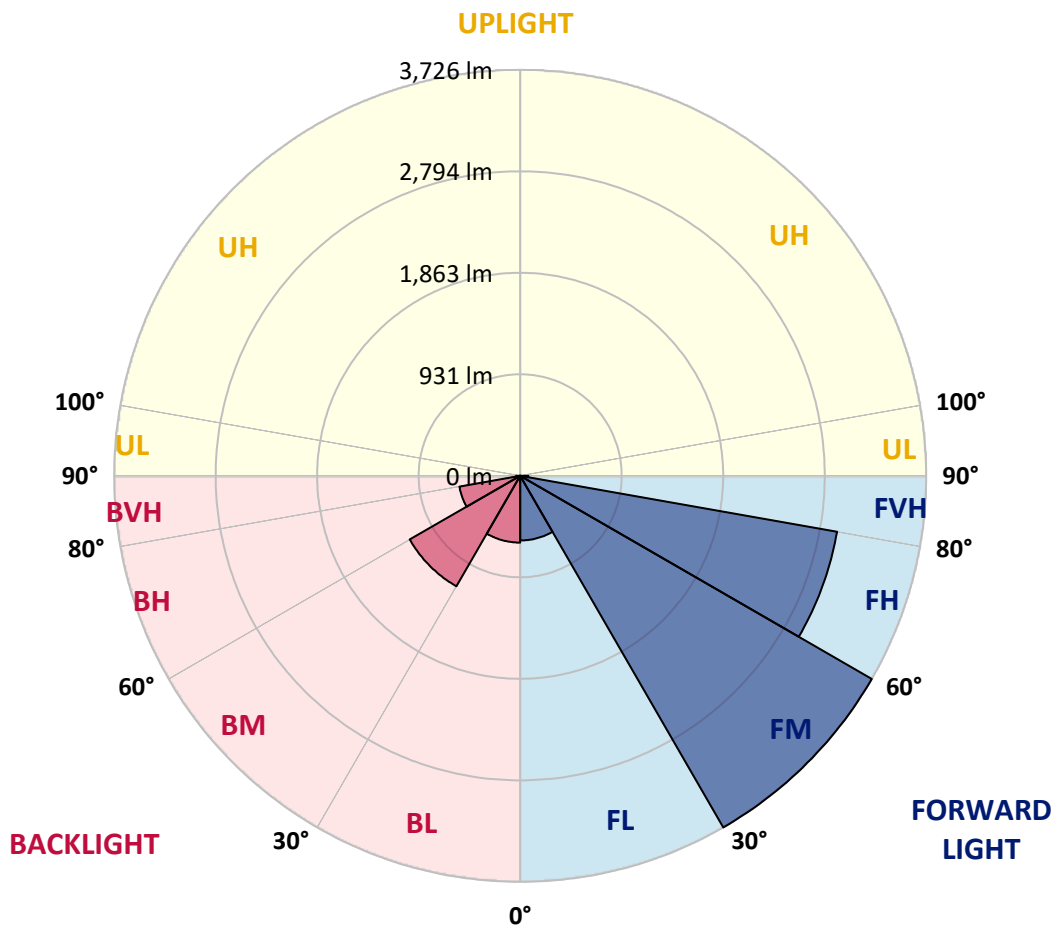
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	593.3	6.1			
FM	(30°-60°)	3725.7	38.3			
FH	(60°-80°)	2953.0	30.3			G2/5000
FVH	(80°-90°)	74.7	0.8			G1/100
BL	(0°-30°)	613.0	6.3	B2/1000		
BM	(30°-60°)	1170.4	12.0	B2/2500		
BH	(60°-80°)	566.4	5.8	B2/1000		G2/1000
BVH	(80°-90°)	36.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1243.8	1243.8	1243.8	1243.8	1243.8	1243.8	1243.8	1243.8	1243.8	1243.8	1243.8
2.5°	1085.6	1083.1	1089.4	1095.7	1109.5	1125.8	1148.4	1167.2	1169.7	1204.9	1232.5
5°	1021.6	1017.8	1024.1	1031.7	1037.9	1058.0	1081.9	1109.5	1120.8	1172.2	1231.2
7.5°	1027.9	1026.6	1029.1	1026.6	1026.6	1035.4	1051.7	1079.3	1091.9	1153.4	1237.5
10°	1064.3	1066.8	1068.1	1060.5	1053.0	1049.2	1054.2	1073.1	1081.9	1154.7	1265.1
12.5°	1124.5	1128.3	1129.5	1115.7	1105.7	1089.4	1080.6	1088.1	1094.4	1167.2	1304.0
15°	1206.1	1208.6	1199.8	1191.0	1165.9	1145.9	1124.5	1118.3	1120.8	1193.6	1347.9
17.5°	1301.5	1297.7	1297.7	1276.4	1243.8	1212.4	1177.2	1172.2	1172.2	1236.2	1410.7
20°	1405.7	1409.4	1398.1	1369.3	1336.6	1287.7	1252.5	1230.0	1232.5	1285.2	1487.2
22.5°	1556.3	1562.5	1532.4	1491.0	1440.8	1384.3	1334.1	1297.7	1299.0	1349.2	1566.3
25°	1718.2	1720.7	1701.9	1646.6	1578.9	1498.5	1432.0	1385.6	1384.3	1420.7	1668.0
27.5°	1883.8	1895.1	1857.5	1804.8	1742.0	1641.6	1553.8	1491.0	1481.0	1529.9	1794.7
30°	2054.5	2068.3	2031.9	1980.5	1902.7	1817.3	1713.1	1640.4	1634.1	1699.3	1964.2
32.5°	2226.5	2230.2	2201.4	2158.7	2088.4	2008.1	1924.0	1843.7	1837.4	1944.1	2183.8
35°	2367.0	2378.3	2358.2	2348.2	2296.7	2222.7	2141.1	2094.7	2111.0	2247.8	2468.7
37.5°	2536.5	2547.8	2525.2	2522.7	2506.3	2442.3	2385.9	2389.6	2405.9	2591.7	2768.7
40°	2781.2	2793.8	2736.0	2710.9	2710.9	2648.2	2629.3	2718.4	2739.8	2930.6	3081.2
42.5°	2988.3	3008.4	2974.5	2958.2	2909.2	2865.3	2887.9	3013.4	3049.8	3254.4	3353.5
45°	3088.7	3103.7	3143.9	3191.6	3143.9	3067.4	3152.7	3294.5	3346.0	3553.1	3625.9
47.5°	3142.7	3156.5	3202.9	3330.9	3363.5	3299.5	3420.0	3597.0	3632.1	3849.3	3885.6
50°	3150.2	3194.1	3254.4	3382.4	3531.7	3540.5	3688.6	3904.5	3945.9	4140.4	4114.1
52.5°	3088.7	3106.3	3230.5	3446.4	3612.0	3762.7	3981.0	4199.4	4229.5	4414.0	4316.1
55°	2988.3	3013.4	3137.6	3431.3	3689.9	3973.5	4278.5	4489.3	4523.2	4680.1	4503.1
57.5°	2897.9	2910.5	3043.5	3387.4	3767.7	4184.4	4543.3	4791.8	4814.4	4913.5	4641.2
60°	2797.5	2811.3	2944.4	3293.3	3825.4	4343.7	4819.4	5096.8	5116.9	5159.5	4801.8
62.5°	2537.7	2574.1	2741.0	3137.6	3810.3	4525.7	5114.3	5398.0	5423.1	5376.7	4928.6
65°	2060.8	2112.3	2316.8	2785.0	3669.8	4643.7	5355.3	5675.4	5718.0	5539.8	4962.5
67.5°	1600.2	1636.6	1801.0	2210.2	3176.5	4584.7	5510.9	5866.1	5878.7	5513.5	4774.2
68°	1517.4	1553.8	1710.6	2089.7	3039.7	4514.4	5507.2	5871.1	5898.8	5484.6	4701.4
70°	1160.9	1202.3	1351.7	1655.4	2449.9	4067.6	5277.5	5750.7	5746.9	5135.7	4249.6
72.5°	725.4	749.3	852.2	1044.2	1620.3	3095.0	4479.3	5071.7	5081.7	4186.9	3259.4
75°	460.6	460.6	455.6	505.8	830.8	1763.4	3329.7	3904.5	3912.0	2931.8	2054.5
77.5°	400.4	389.1	335.1	283.6	331.3	685.3	1970.4	2521.4	2480.0	1578.9	975.2
80°	337.6	318.8	274.9	228.4	213.4	214.6	756.8	1280.2	1224.9	568.5	323.8
82.5°	243.5	227.2	207.1	179.5	164.4	128.0	158.1	370.2	361.5	164.4	105.4
85°	131.8	119.2	116.7	118.0	99.1	79.1	66.5	81.6	81.6	71.5	60.2
87.5°	46.4	33.9	40.2	45.2	38.9	32.6	26.4	31.4	32.6	31.4	28.9
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°	1243.8	1243.8	1243.8	1243.8	1243.8	1243.8	1243.8	1243.8	1243.8	1243.8	1243.8
2.5°	1248.8	1261.3	1291.5	1317.8	1336.6	1352.9	1361.7	1365.5	1374.3	1375.5	1373.0
5°	1258.8	1291.5	1336.6	1375.5	1396.9	1405.7	1408.2	1409.4	1405.7	1408.2	1405.7
7.5°	1285.2	1326.6	1390.6	1424.5	1428.3	1414.4	1415.7	1410.7	1415.7	1420.7	1420.7
10°	1325.3	1378.0	1438.3	1450.8	1434.5	1427.0	1442.1	1472.2	1482.2	1496.0	1496.0
12.5°	1378.0	1440.8	1483.5	1472.2	1457.1	1482.2	1526.1	1556.3	1566.3	1571.3	1567.6
15°	1438.3	1506.1	1527.4	1489.7	1517.4	1571.3	1586.4	1568.8	1543.7	1532.4	1538.7
17.5°	1514.9	1571.3	1558.8	1533.7	1596.4	1604.0	1555.0	1498.5	1458.4	1443.3	1453.4
20°	1595.2	1644.1	1586.4	1597.7	1636.6	1556.3	1463.4	1390.6	1355.5	1349.2	1359.2
22.5°	1680.5	1711.9	1614.0	1671.7	1614.0	1450.8	1339.1	1301.5	1292.7	1302.7	1311.5
25°	1777.2	1773.4	1661.7	1694.3	1529.9	1321.6	1255.1	1252.5	1252.5	1258.8	1271.4
27.5°	1886.3	1827.4	1709.4	1664.2	1384.3	1214.9	1202.3	1203.6	1199.8	1201.1	1207.4
30°	2013.1	1900.2	1762.1	1565.1	1221.2	1134.6	1129.5	1125.8	1117.0	1114.5	1117.0
32.5°	2172.5	1976.7	1816.1	1401.9	1078.1	1051.7	1049.2	1029.1	1007.8	1005.3	1014.1
35°	2374.6	2116.0	1843.7	1197.3	960.1	958.9	950.1	918.7	891.1	891.1	884.8
37.5°	2605.5	2295.5	1855.0	997.8	862.2	868.5	843.4	803.2	781.9	769.3	773.1
40°	2841.4	2500.1	1853.7	823.3	776.9	778.1	759.3	710.4	657.6	626.3	633.8
42.5°	3068.6	2685.8	1821.1	730.4	707.9	704.1	689.0	622.5	578.6	553.5	554.7
45°	3250.6	2877.8	1770.9	675.2	645.1	651.4	617.5	577.3	537.2	514.6	513.3
47.5°	3432.6	3023.4	1690.6	641.3	598.7	587.4	573.6	545.9	515.8	490.7	492.0
50°	3598.2	3147.7	1615.3	618.7	556.0	527.1	529.6	513.3	487.0	464.4	463.1
52.5°	3715.0	3229.3	1573.8	606.2	504.5	473.2	481.9	473.2	448.1	431.7	430.5
55°	3831.7	3292.0	1587.6	589.9	448.1	423.0	438.0	435.5	421.7	416.7	417.9
57.5°	3925.8	3339.7	1636.6	559.8	394.1	379.0	404.1	396.6	386.6	387.8	387.8
60°	4017.4	3401.2	1694.3	490.7	347.7	348.9	372.8	358.9	352.7	364.0	365.2
62.5°	4112.8	3467.7	1646.6	390.3	307.5	316.3	343.9	332.6	335.1	351.4	356.4
65°	4101.5	3461.4	1341.7	320.0	272.3	289.9	331.3	327.6	328.8	335.1	337.6
67.5°	3870.6	3240.6	922.5	272.3	247.2	268.6	321.3	306.2	307.5	303.7	305.0
68°	3792.8	3162.7	813.3	264.8	242.2	263.6	316.3	302.5	303.7	300.0	298.7
70°	3368.6	2708.4	514.6	233.4	224.7	249.8	291.2	286.2	284.9	282.4	282.4
72.5°	2567.8	1999.3	271.1	202.1	204.6	228.4	259.8	269.8	263.6	264.8	272.3
75°	1700.6	1202.3	188.3	173.2	179.5	195.8	230.9	251.0	244.7	248.5	244.7
77.5°	899.9	647.6	150.6	146.8	146.8	158.1	190.8	222.1	222.1	219.6	215.9
80°	294.9	228.4	120.5	115.5	118.0	124.3	153.1	182.0	185.7	180.7	178.2
82.5°	99.1	105.4	90.4	84.1	86.6	91.6	115.5	139.3	140.6	130.5	128.0
85°	61.5	70.3	56.5	55.2	55.2	56.5	70.3	76.6	70.3	62.8	65.3
87.5°	28.9	35.1	26.4	22.6	18.8	16.3	12.6	5.0	5.0	2.5	2.5
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)