

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: P836599

Luminaire Tested: **ARCH3-50-722-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-50-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7775 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

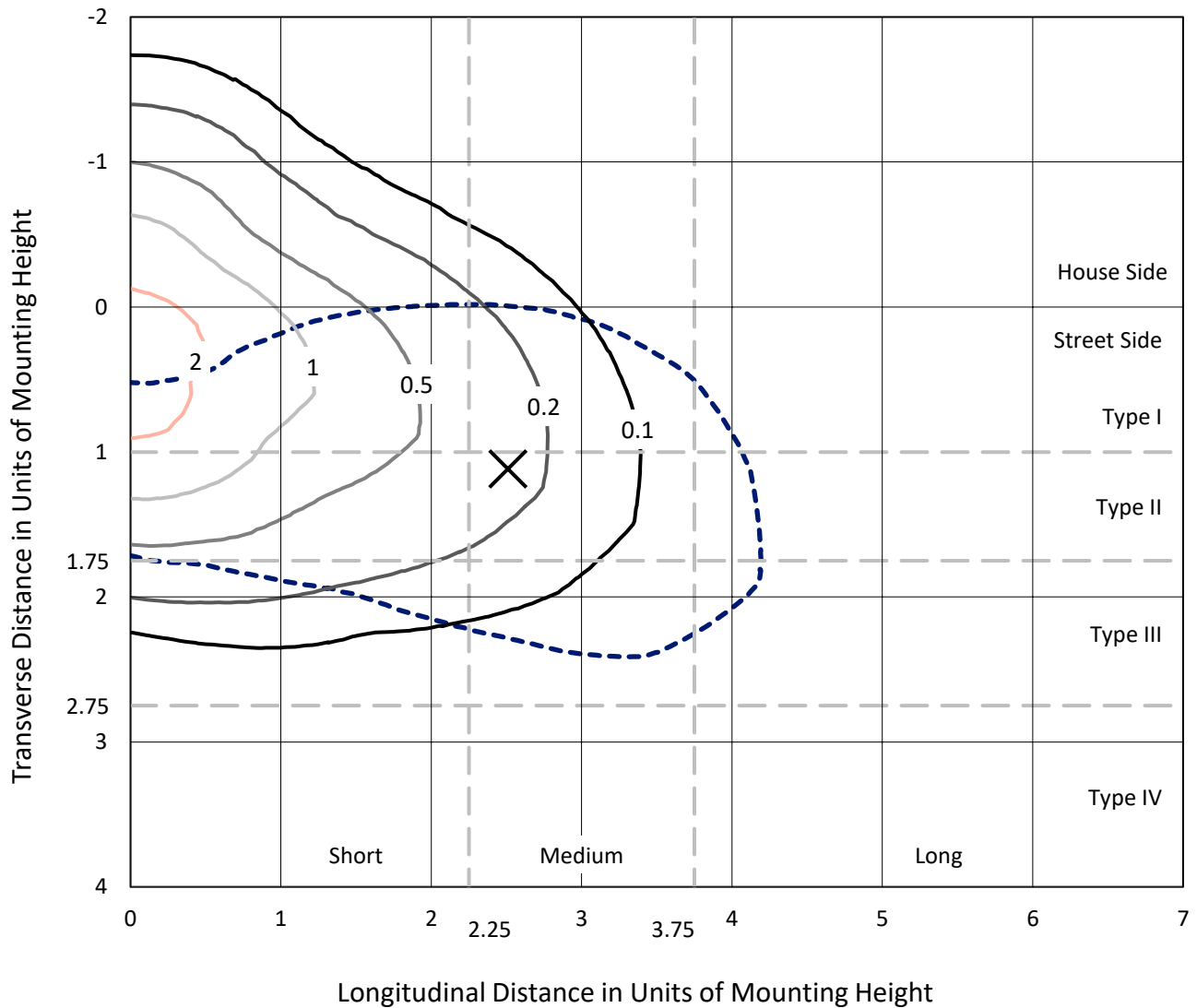
Input Watts (W): 53.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

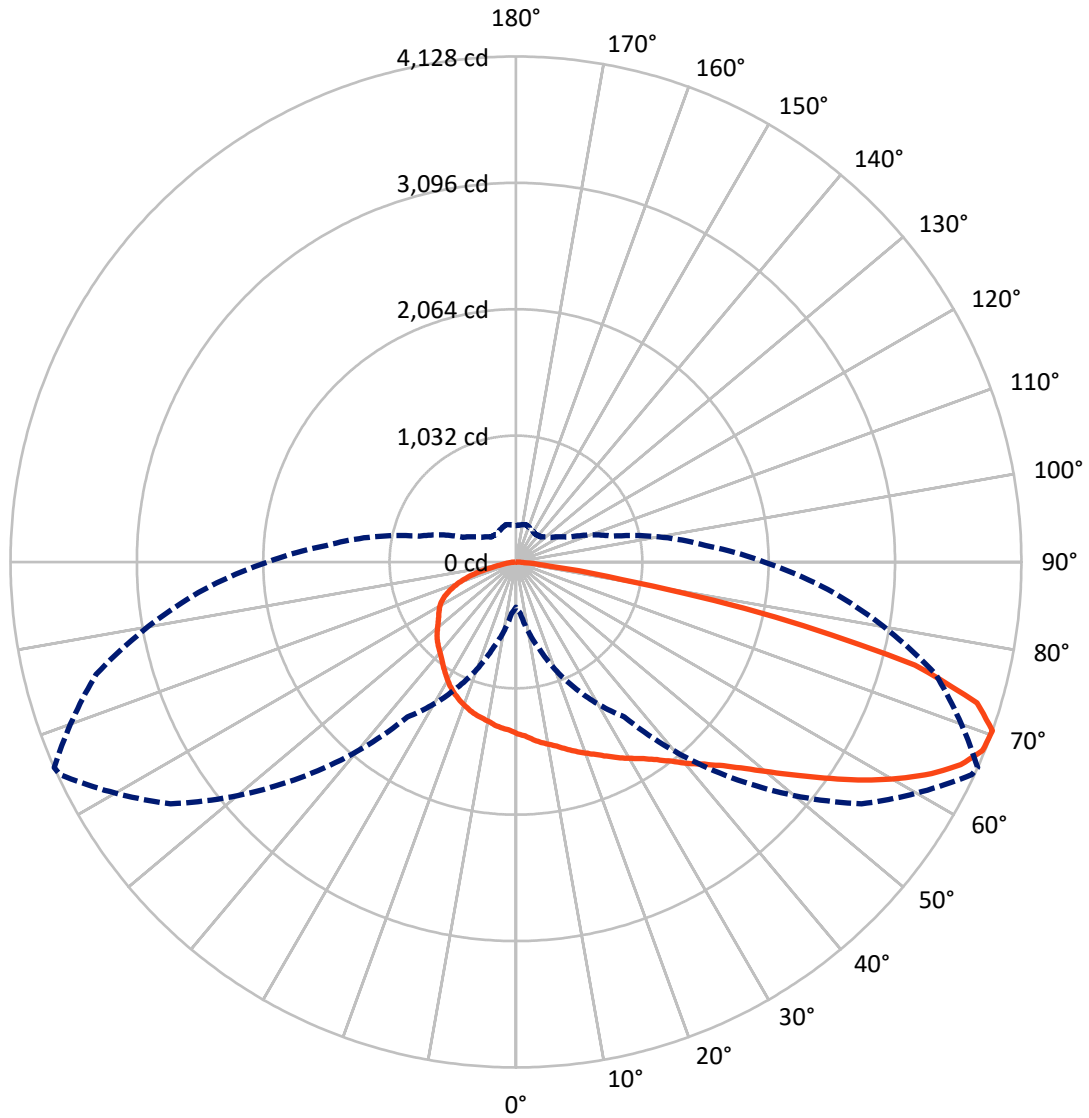
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2060.2	0.0	2060.2
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	5714.8	0.0	5714.8
	% Fixture	73.5	0.0	73.5
Total	Lumens	7775.0	0.0	7775.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.8	1.7
10°-20°	404.5	5.2
20°-30°	678.0	8.7
30°-40°	1015.2	13.1
40°-50°	1357.3	17.5
50°-60°	1584.7	20.4
60°-70°	1575.7	20.3
70°-80°	932.9	12.0
80°-90°	91.9	1.2
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°	7775.0	100.0
0°-180°	7775.0	100.0



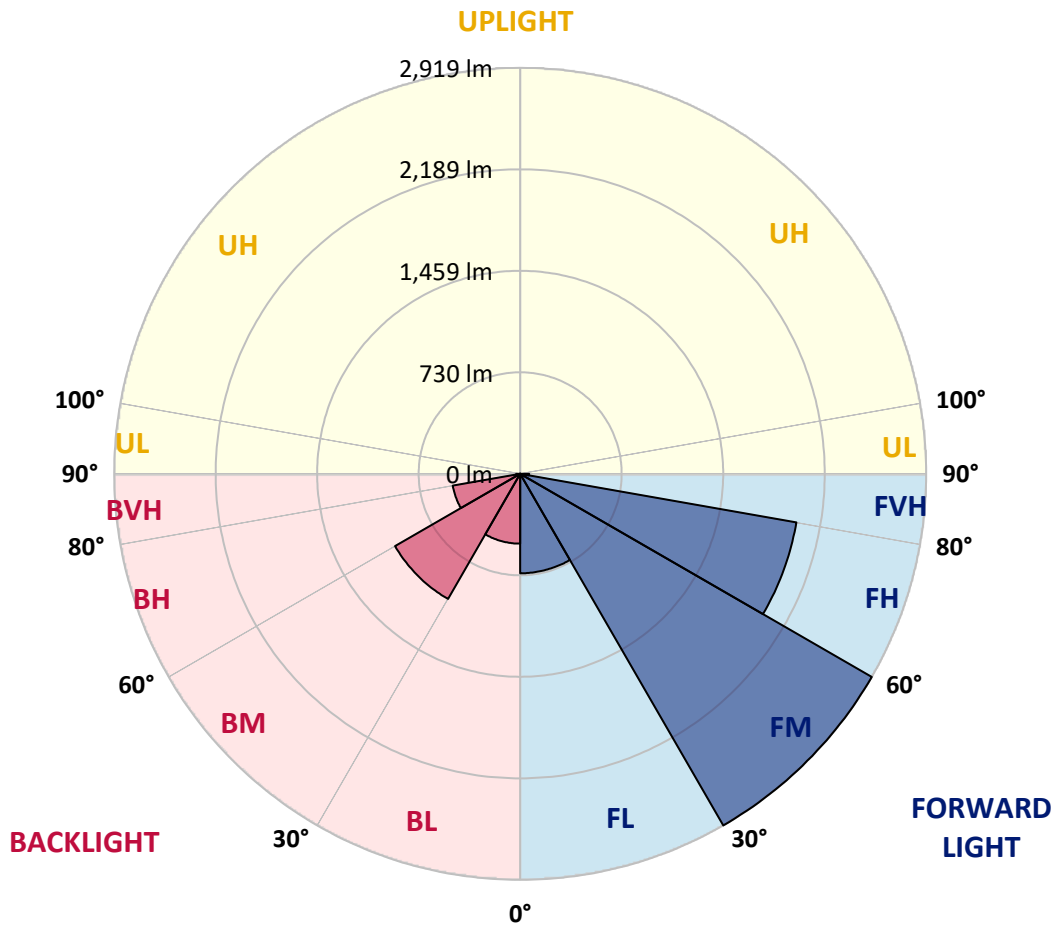
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	715.1	9.2			
FM (30°-60°)	2918.6	37.5			
FH (60°-80°)	2016.5	25.9			G2/5000
FVH (80°-90°)	64.6	0.8			G1/100
BL (0°-30°)	502.2	6.5	B2/1000		
BM (30°-60°)	1038.6	13.4	B2/2500		
BH (60°-80°)	492.1	6.3	B1/500		G1/500
BVH (80°-90°)	27.3	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2
2.5°	1454.8	1452.5	1451.4	1446.8	1436.5	1441.0	1430.7	1423.8	1422.7	1406.6	1397.5
5°	1514.4	1513.3	1511.0	1504.1	1488.0	1490.3	1473.1	1460.5	1457.1	1431.9	1412.4
7.5°	1564.9	1562.6	1561.4	1552.2	1535.0	1533.9	1513.3	1494.9	1489.2	1454.8	1425.0
10°	1603.8	1600.4	1602.7	1593.5	1575.2	1571.7	1545.4	1521.3	1515.6	1472.0	1430.7
12.5°	1637.1	1634.8	1638.2	1630.2	1615.3	1611.9	1585.5	1554.5	1547.7	1497.2	1443.3
15°	1673.8	1665.7	1672.6	1669.2	1658.9	1657.7	1633.6	1599.2	1590.1	1529.3	1462.8
17.5°	1693.3	1688.7	1696.7	1697.8	1693.3	1701.3	1678.3	1637.1	1629.1	1559.1	1480.0
20°	1707.0	1700.1	1709.3	1716.2	1719.6	1735.7	1717.3	1677.2	1668.0	1587.8	1496.1
22.5°	1754.0	1739.1	1740.3	1744.8	1747.1	1770.1	1758.6	1719.6	1710.4	1623.3	1515.6
25°	1872.1	1842.3	1822.8	1809.0	1793.0	1812.5	1805.6	1767.8	1759.7	1665.7	1539.6
27.5°	2055.5	2017.7	1978.7	1938.6	1875.5	1867.5	1856.0	1821.7	1812.5	1708.2	1563.7
30°	2264.2	2226.3	2180.5	2116.3	1998.2	1936.3	1909.9	1872.1	1861.8	1746.0	1586.6
32.5°	2471.7	2438.4	2392.6	2314.6	2146.1	2020.0	1963.8	1924.8	1914.5	1787.3	1614.2
35°	2633.3	2612.7	2582.9	2485.4	2292.8	2118.6	2041.8	1994.8	1983.3	1852.6	1664.6
37.5°	2764.0	2749.1	2723.9	2621.8	2399.4	2217.2	2131.2	2077.3	2064.7	1923.7	1718.5
40°	2956.6	2917.6	2897.0	2749.1	2492.3	2306.6	2232.1	2175.9	2162.1	1999.3	1762.0
42.5°	3120.5	3091.9	3066.7	2862.6	2580.6	2383.4	2327.2	2275.6	2257.3	2073.9	1809.0
45°	3148.1	3159.5	3146.9	2918.8	2720.4	2459.1	2423.5	2390.3	2373.1	2174.7	1880.1
47.5°	3149.2	3149.2	3074.7	2950.9	2893.5	2543.9	2526.7	2538.2	2519.8	2303.1	1965.0
50°	3066.7	3081.6	3042.6	2958.9	2939.4	2628.7	2652.8	2714.7	2696.4	2439.6	2056.7
52.5°	2895.8	2945.1	2944.0	2946.3	2872.9	2701.0	2785.8	2926.8	2895.8	2593.2	2154.1
55°	2594.3	2692.9	2781.2	2856.9	2815.6	2744.5	2948.6	3152.6	3120.5	2765.1	2252.7
57.5°	2336.4	2399.4	2509.5	2723.9	2748.0	2782.3	3101.0	3388.8	3360.1	2955.5	2355.9
60°	2041.8	2128.9	2238.9	2543.9	2665.4	2831.6	3268.4	3619.2	3591.7	3148.1	2455.6
62.5°	1588.9	1701.3	1921.4	2267.6	2545.0	2862.6	3400.3	3822.1	3809.5	3330.3	2545.0
65°	1107.4	1207.2	1515.6	1928.3	2353.6	2848.8	3505.7	4003.3	3991.8	3479.4	2608.1
67.5°	646.6	762.4	1110.9	1552.2	2015.4	2753.7	3540.1	4109.9	4109.9	3569.9	2625.3
70°	369.1	423.0	732.6	1131.5	1545.4	2491.2	3443.8	4108.7	4128.2	3549.3	2554.2
72.5°	257.9	282.0	493.0	761.2	1047.8	2015.4	3191.6	3910.4	3936.8	3354.4	2311.2
75°	200.6	217.8	347.4	519.3	660.3	1368.8	2640.2	3297.1	3367.0	2859.2	1868.7
77.5°	152.5	165.1	202.9	324.4	423.0	786.4	1742.5	2162.1	2166.7	1750.6	1002.0
80°	111.2	123.8	135.3	198.3	224.7	368.0	658.0	903.4	878.2	847.2	542.3
82.5°	66.5	79.1	82.5	107.8	110.1	157.1	230.4	291.2	279.7	372.6	254.5
85°	28.7	40.1	42.4	49.3	47.0	64.2	91.7	76.8	68.8	79.1	55.0
87.5°	6.9	11.5	11.5	12.6	10.3	16.0	17.2	12.6	11.5	13.8	13.8
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°	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2
2.5°	1395.2	1391.7	1392.9	1373.4	1367.7	1361.9	1358.5	1356.2	1353.9	1357.4	1360.8
5°	1405.5	1397.5	1388.3	1359.6	1348.2	1335.6	1326.4	1318.4	1314.9	1314.9	1318.4
7.5°	1413.5	1399.8	1380.3	1342.5	1321.8	1304.6	1289.7	1279.4	1273.7	1273.7	1277.1
10°	1414.7	1395.2	1364.2	1318.4	1290.9	1265.6	1248.4	1237.0	1229.0	1229.0	1231.2
12.5°	1421.6	1395.2	1355.1	1300.0	1265.6	1234.7	1214.1	1196.9	1193.4	1193.4	1195.7
15°	1433.0	1400.9	1349.3	1284.0	1242.7	1207.2	1184.2	1165.9	1159.0	1163.6	1164.8
17.5°	1443.3	1404.4	1339.0	1263.3	1214.1	1175.1	1149.9	1133.8	1124.6	1134.9	1134.9
20°	1450.2	1404.4	1324.1	1237.0	1183.1	1139.5	1115.5	1096.0	1089.1	1101.7	1102.9
22.5°	1460.5	1403.2	1308.1	1210.6	1149.9	1104.0	1079.9	1065.0	1061.6	1075.3	1079.9
25°	1472.0	1405.5	1290.9	1180.8	1113.2	1068.5	1050.1	1043.2	1045.5	1062.7	1068.5
27.5°	1484.6	1410.1	1273.7	1147.6	1073.0	1032.9	1022.6	1026.0	1035.2	1057.0	1063.9
30°	1496.1	1411.2	1249.6	1108.6	1027.2	989.4	993.9	1008.8	1022.6	1044.4	1052.4
32.5°	1511.0	1412.4	1224.4	1066.2	977.9	950.4	971.0	995.1	1008.8	1029.5	1038.7
35°	1547.7	1431.9	1204.9	1024.9	932.0	917.1	951.5	982.5	990.5	1008.8	1016.9
37.5°	1590.1	1464.0	1194.6	982.5	887.3	883.9	927.4	958.4	960.7	972.2	980.2
40°	1616.4	1477.7	1183.1	946.9	847.2	849.5	894.2	918.3	913.7	921.7	927.4
42.5°	1642.8	1482.3	1159.0	917.1	809.4	811.7	846.1	863.2	865.5	882.7	890.8
45°	1687.5	1494.9	1132.7	889.6	775.0	767.0	787.6	810.5	840.3	873.6	882.7
47.5°	1747.1	1521.3	1105.1	856.4	741.7	715.4	723.4	763.5	794.5	825.4	831.1
50°	1807.9	1547.7	1079.9	816.2	708.5	660.3	663.8	700.5	725.7	749.8	753.2
52.5°	1867.5	1570.6	1058.1	778.4	670.7	595.0	608.7	646.6	663.8	675.2	678.7
55°	1927.1	1590.1	1038.7	746.3	627.1	543.4	556.0	591.5	608.7	614.5	616.8
57.5°	1989.0	1613.0	1023.7	718.8	577.8	497.5	505.6	530.8	546.8	553.7	551.4
60°	2040.6	1632.5	1015.7	690.1	528.5	455.1	452.8	475.8	498.7	505.6	503.3
62.5°	2080.7	1645.1	1003.1	653.5	484.9	412.7	401.2	431.1	455.1	459.7	463.2
65°	2102.5	1646.3	972.2	606.5	440.2	366.9	358.8	388.6	403.5	408.1	408.1
67.5°	2099.1	1627.9	911.4	543.4	399.0	325.6	318.7	337.0	358.8	362.3	358.8
70°	2028.0	1552.2	814.0	476.9	349.7	288.9	276.3	294.6	315.3	302.7	296.9
72.5°	1826.2	1356.2	670.7	403.5	294.6	243.0	237.3	255.7	256.8	259.1	253.4
75°	1441.0	1010.0	502.1	314.1	238.5	204.1	202.9	199.5	204.1	213.2	206.4
77.5°	756.6	504.4	271.7	192.6	173.1	163.9	155.9	154.8	168.5	174.3	167.4
80°	410.4	283.2	155.9	115.8	105.5	106.6	116.9	114.6	129.5	133.0	127.3
82.5°	178.8	134.1	76.8	69.9	69.9	68.8	72.2	80.2	96.3	96.3	76.8
85°	39.0	33.2	29.8	34.4	39.0	39.0	39.0	39.0	27.5	14.9	10.3
87.5°	12.6	12.6	12.6	13.8	14.9	14.9	12.6	9.2	5.7	1.1	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)