

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: P799895

Luminaire Tested: **ARCH2-60-730-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799895
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-60-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8895 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

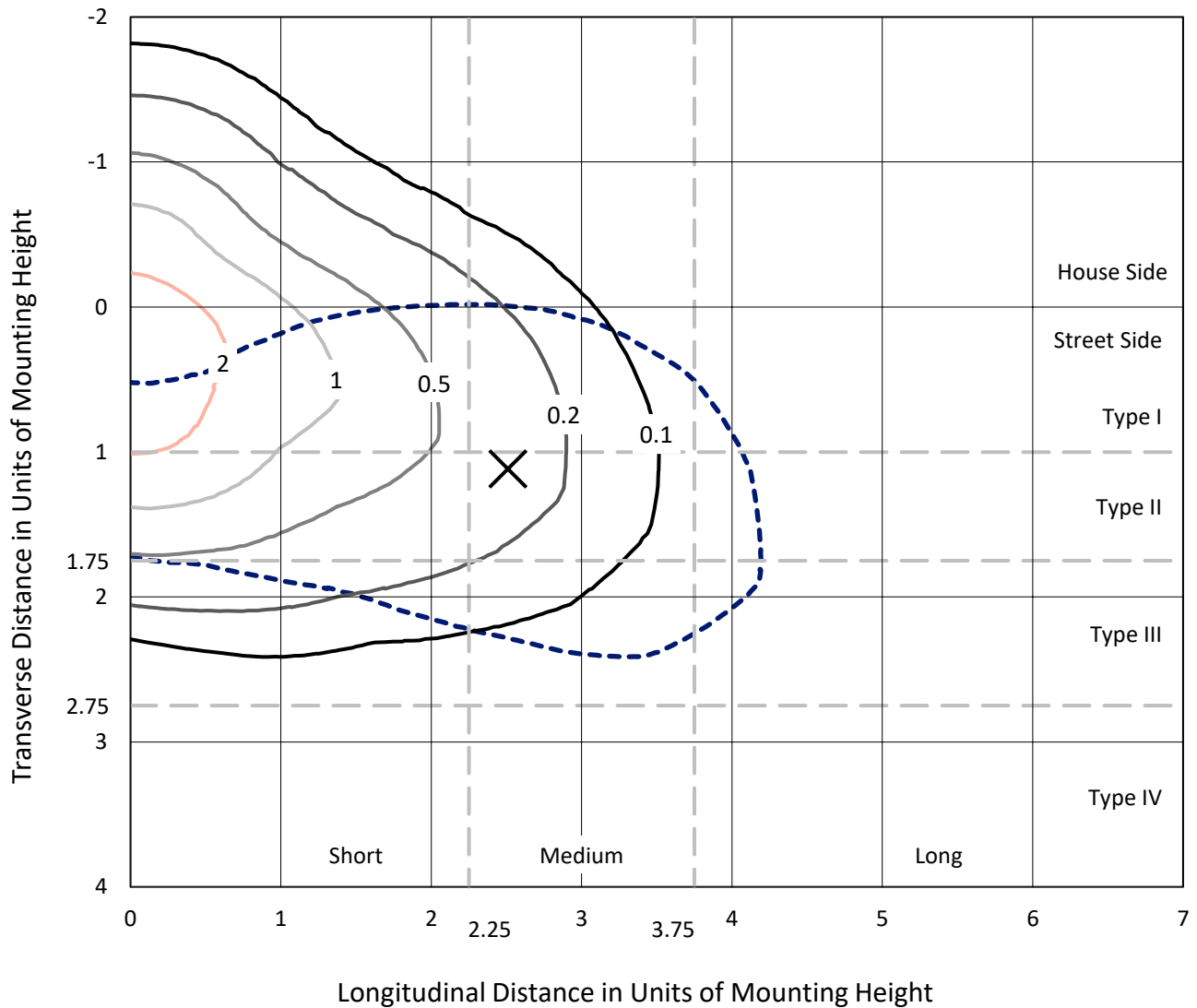
Input Watts (W): 63.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

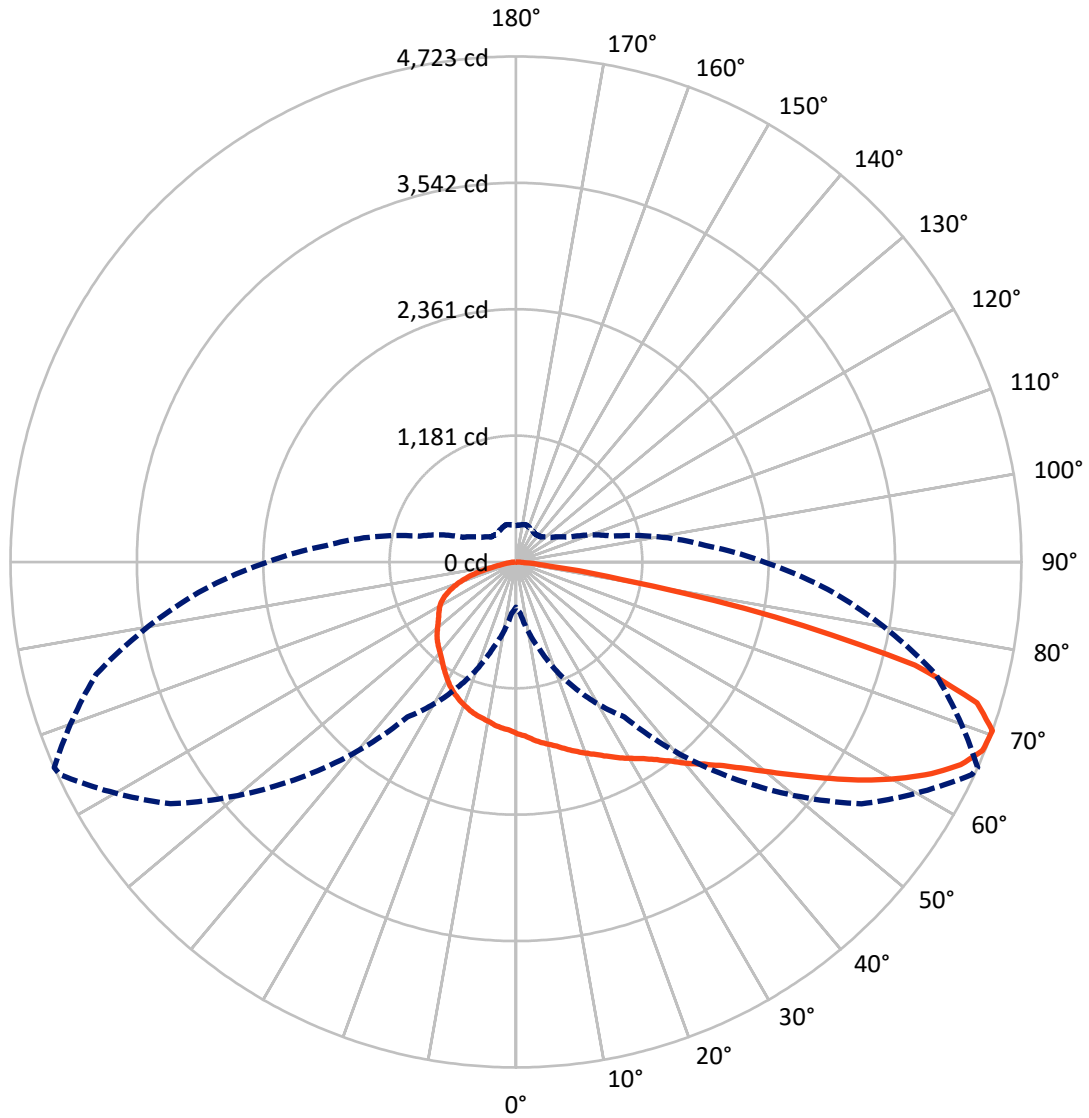
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	2357.0	0.0	2357.0
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	6538.0	0.0	6538.0
	% Fixture	73.5	0.0	73.5
Total	Lumens	8895.0	0.0	8895.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.3	1.7
10°-20°	462.7	5.2
20°-30°	775.7	8.7
30°-40°	1161.4	13.1
40°-50°	1552.8	17.5
50°-60°	1813.0	20.4
60°-70°	1802.7	20.3
70°-80°	1067.2	12.0
80°-90°	105.2	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°	8895.0	100.0
0°-180°	8895.0	100.0



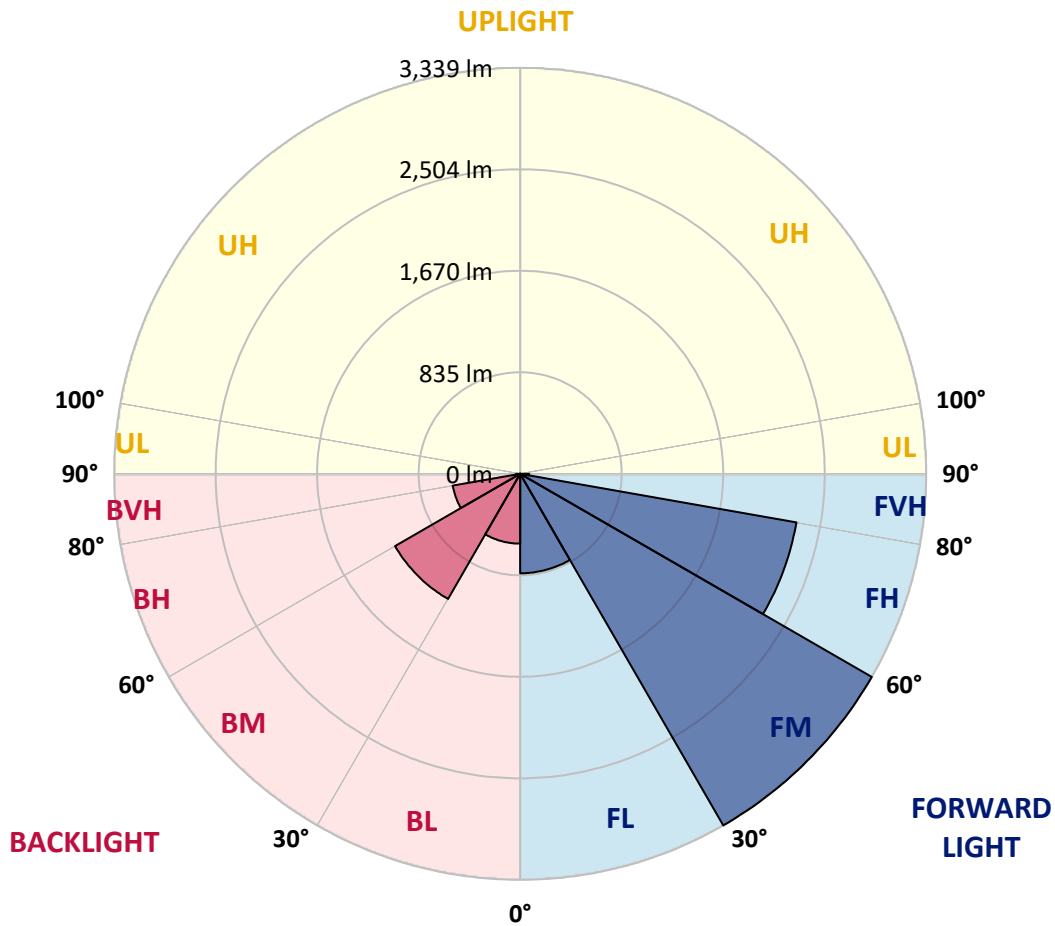
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	818.1	9.2			
FM (30°-60°)	3339.1	37.5			
FH (60°-80°)	2306.9	25.9			G2/5000
FVH (80°-90°)	73.9	0.8			G1/100
BL (0°-30°)	574.5	6.5	B2/1000		
BM (30°-60°)	1188.2	13.4	B2/2500		
BH (60°-80°)	563.0	6.3	B2/1000		G2/1000
BVH (80°-90°)	31.3	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°	1605.3	1605.3	1605.3	1605.3	1605.3	1605.3	1605.3	1605.3	1605.3	1605.3	1605.3
2.5°	1664.4	1661.7	1660.4	1655.2	1643.4	1648.6	1636.8	1629.0	1627.6	1609.3	1598.8
5°	1732.6	1731.3	1728.6	1720.8	1702.4	1705.0	1685.3	1670.9	1667.0	1638.1	1615.8
7.5°	1790.3	1787.7	1786.3	1775.8	1756.2	1754.9	1731.3	1710.3	1703.7	1664.4	1630.3
10°	1834.9	1830.9	1833.6	1823.1	1802.1	1798.1	1768.0	1740.4	1733.9	1684.0	1636.8
12.5°	1872.9	1870.3	1874.2	1865.0	1848.0	1844.0	1813.9	1778.5	1770.6	1712.9	1651.2
15°	1914.9	1905.7	1913.6	1909.6	1897.8	1896.5	1869.0	1829.6	1819.1	1749.6	1673.5
17.5°	1937.2	1931.9	1941.1	1942.4	1937.2	1946.3	1920.1	1872.9	1863.7	1783.7	1693.2
20°	1952.9	1945.0	1955.5	1963.4	1967.3	1985.7	1964.7	1918.8	1908.3	1816.5	1711.6
22.5°	2006.7	1989.6	1990.9	1996.2	1998.8	2025.0	2011.9	1967.3	1956.8	1857.2	1733.9
25°	2141.8	2107.7	2085.4	2069.6	2051.3	2073.6	2065.7	2022.4	2013.2	1905.7	1761.4
27.5°	2351.6	2308.3	2263.7	2217.8	2145.7	2136.5	2123.4	2084.1	2073.6	1954.2	1789.0
30°	2590.3	2547.0	2494.6	2421.1	2286.0	2215.2	2185.1	2141.8	2130.0	1997.5	1815.2
32.5°	2827.7	2789.7	2737.2	2648.0	2455.2	2311.0	2246.7	2202.1	2190.3	2044.7	1846.7
35°	3012.6	2989.0	2954.9	2843.5	2623.1	2423.8	2335.9	2282.1	2269.0	2119.5	1904.4
37.5°	3162.2	3145.1	3116.3	2999.5	2745.1	2536.5	2438.2	2376.5	2362.1	2200.8	1966.0
40°	3382.5	3337.9	3314.3	3145.1	2851.3	2638.9	2553.6	2489.3	2473.6	2287.4	2015.9
42.5°	3570.1	3537.3	3508.4	3275.0	2952.3	2726.7	2662.5	2603.4	2582.5	2372.6	2069.6
45°	3601.5	3614.6	3600.2	3339.2	3112.3	2813.3	2772.6	2734.6	2714.9	2488.0	2151.0
47.5°	3602.8	3602.8	3517.6	3375.9	3310.4	2910.3	2890.7	2903.8	2882.8	2634.9	2248.0
50°	3508.4	3525.5	3480.9	3385.1	3362.8	3007.4	3034.9	3105.8	3084.8	2791.0	2352.9
52.5°	3313.0	3369.4	3368.1	3370.7	3286.8	3090.0	3187.1	3348.4	3313.0	2966.7	2464.4
55°	2968.1	3080.8	3181.8	3268.4	3221.2	3139.9	3373.3	3606.8	3570.1	3163.5	2577.2
57.5°	2673.0	2745.1	2871.0	3116.3	3143.8	3183.1	3547.8	3877.0	3844.2	3381.2	2695.2
60°	2335.9	2435.6	2561.5	2910.3	3049.4	3239.5	3739.2	4140.6	4109.1	3601.5	2809.4
62.5°	1817.8	1946.3	2198.2	2594.3	2911.7	3275.0	3890.1	4372.7	4358.3	3810.1	2911.7
65°	1267.0	1381.1	1733.9	2206.0	2692.6	3259.2	4010.7	4580.0	4566.8	3980.6	2983.8
67.5°	739.7	872.2	1270.9	1775.8	2305.7	3150.4	4050.1	4701.9	4701.9	4084.2	3003.5
70°	422.3	484.0	838.1	1294.5	1768.0	2850.0	3939.9	4700.6	4722.9	4060.6	2922.1
72.5°	295.1	322.6	564.0	870.9	1198.8	2305.7	3651.4	4473.7	4503.9	3837.6	2644.1
75°	229.5	249.2	397.4	594.1	755.5	1566.0	3020.5	3772.0	3852.0	3271.0	2137.8
77.5°	174.4	188.9	232.1	371.2	484.0	899.7	1993.6	2473.6	2478.8	2002.7	1146.3
80°	127.2	141.6	154.8	226.9	257.1	421.0	752.8	1033.5	1004.7	969.2	620.4
82.5°	76.1	90.5	94.4	123.3	125.9	179.7	263.6	333.1	320.0	426.3	291.2
85°	32.8	45.9	48.5	56.4	53.8	73.4	104.9	87.9	78.7	90.5	63.0
87.5°	7.9	13.1	13.1	14.4	11.8	18.4	19.7	14.4	13.1	15.7	15.7
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°	1605.3	1605.3	1605.3	1605.3	1605.3	1605.3	1605.3	1605.3	1605.3	1605.3	1605.3
2.5°	1596.2	1592.2	1593.5	1571.2	1564.7	1558.1	1554.2	1551.6	1548.9	1552.9	1556.8
5°	1608.0	1598.8	1588.3	1555.5	1542.4	1528.0	1517.5	1508.3	1504.4	1504.4	1508.3
7.5°	1617.1	1601.4	1579.1	1535.8	1512.2	1492.6	1475.5	1463.7	1457.1	1457.1	1461.1
10°	1618.5	1596.2	1560.8	1508.3	1476.8	1448.0	1428.3	1415.2	1406.0	1406.0	1408.6
12.5°	1626.3	1596.2	1550.3	1487.3	1448.0	1412.5	1388.9	1369.3	1365.3	1365.3	1368.0
15°	1639.4	1602.7	1543.7	1468.9	1421.7	1381.1	1354.8	1333.9	1326.0	1331.2	1332.5
17.5°	1651.2	1606.7	1531.9	1445.3	1388.9	1344.3	1315.5	1297.1	1286.6	1298.4	1298.4
20°	1659.1	1606.7	1514.8	1415.2	1353.5	1303.7	1276.1	1253.8	1246.0	1260.4	1261.7
22.5°	1670.9	1605.3	1496.5	1385.0	1315.5	1263.0	1235.5	1218.4	1214.5	1230.2	1235.5
25°	1684.0	1608.0	1476.8	1350.9	1273.5	1222.4	1201.4	1193.5	1196.1	1215.8	1222.4
27.5°	1698.5	1613.2	1457.1	1312.9	1227.6	1181.7	1169.9	1173.8	1184.3	1209.3	1217.1
30°	1711.6	1614.5	1429.6	1268.3	1175.2	1131.9	1137.1	1154.2	1169.9	1194.8	1204.0
32.5°	1728.6	1615.8	1400.7	1219.7	1118.8	1087.3	1110.9	1138.4	1154.2	1177.8	1188.3
35°	1770.6	1638.1	1378.4	1172.5	1066.3	1049.2	1088.6	1124.0	1133.2	1154.2	1163.4
37.5°	1819.1	1674.9	1366.6	1124.0	1015.1	1011.2	1061.0	1096.5	1099.1	1112.2	1121.4
40°	1849.3	1690.6	1353.5	1083.3	969.2	971.9	1023.0	1050.6	1045.3	1054.5	1061.0
42.5°	1879.5	1695.8	1326.0	1049.2	926.0	928.6	967.9	987.6	990.2	1009.9	1019.1
45°	1930.6	1710.3	1295.8	1017.8	886.6	877.4	901.0	927.3	961.4	999.4	1009.9
47.5°	1998.8	1740.4	1264.3	979.7	848.6	818.4	827.6	873.5	908.9	944.3	950.9
50°	2068.3	1770.6	1235.5	933.8	810.5	755.5	759.4	801.4	830.2	857.8	861.7
52.5°	2136.5	1796.8	1210.6	890.5	767.3	680.7	696.4	739.7	759.4	772.5	776.4
55°	2204.7	1819.1	1188.3	853.8	717.4	621.7	636.1	676.8	696.4	703.0	705.6
57.5°	2275.6	1845.4	1171.2	822.3	661.0	569.2	578.4	607.3	625.6	633.5	630.9
60°	2334.6	1867.7	1162.0	789.6	604.6	520.7	518.1	544.3	570.5	578.4	575.8
62.5°	2380.5	1882.1	1147.6	747.6	554.8	472.2	459.0	493.1	520.7	525.9	529.9
65°	2405.4	1883.4	1112.2	693.8	503.6	419.7	410.5	444.6	461.7	466.9	466.9
67.5°	2401.5	1862.4	1042.7	621.7	456.4	372.5	364.6	385.6	410.5	414.5	410.5
70°	2320.1	1775.8	931.2	545.6	400.0	330.5	316.1	337.1	360.7	346.3	339.7
72.5°	2089.3	1551.6	767.3	461.7	337.1	278.0	271.5	292.5	293.8	296.4	289.9
75°	1648.6	1155.5	574.5	359.4	272.8	233.5	232.1	228.2	233.5	243.9	236.1
77.5°	865.6	577.1	310.8	220.3	198.0	187.6	178.4	177.1	192.8	199.4	191.5
80°	469.5	324.0	178.4	132.5	120.7	122.0	133.8	131.2	148.2	152.1	145.6
82.5°	204.6	153.5	87.9	80.0	80.0	78.7	82.6	91.8	110.2	110.2	87.9
85°	44.6	38.0	34.1	39.3	44.6	44.6	44.6	44.6	31.5	17.1	11.8
87.5°	14.4	14.4	14.4	15.7	17.1	17.1	14.4	10.5	6.6	1.3	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)