

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: P799495

Luminaire Tested: **ARCH2-30-727-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799495
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: ARCH2-30-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4928 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

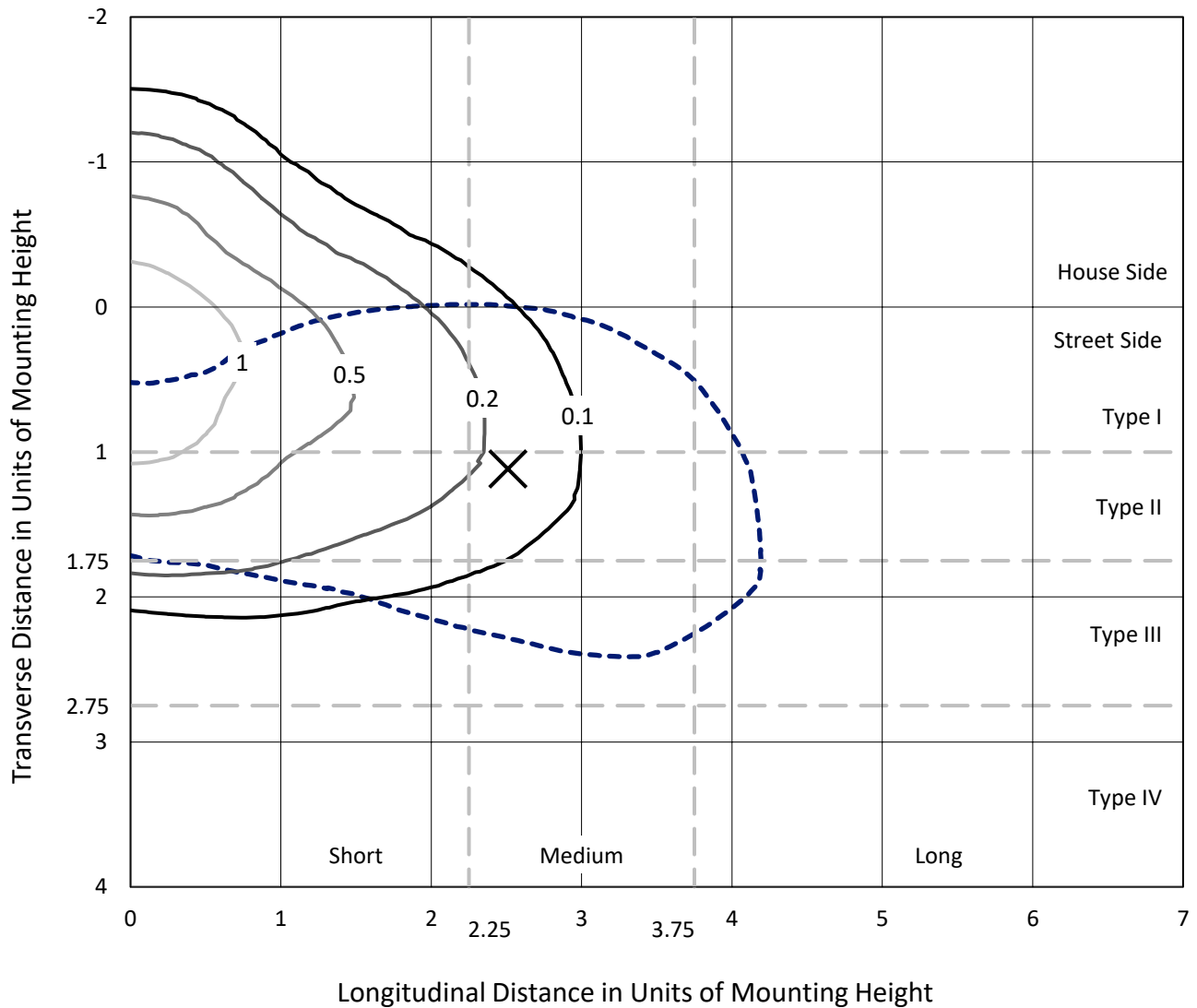
Input Watts (W): 34.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

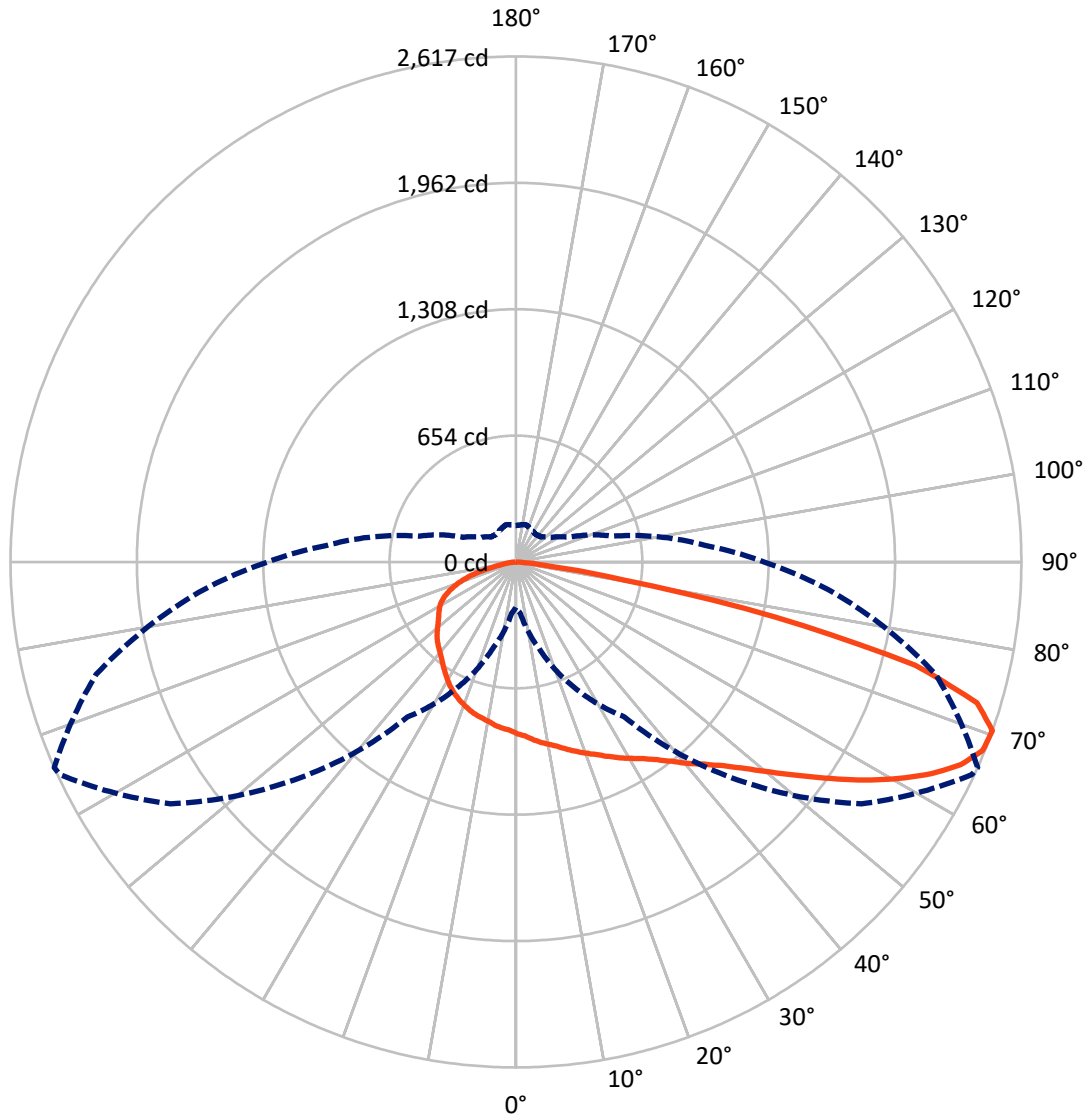
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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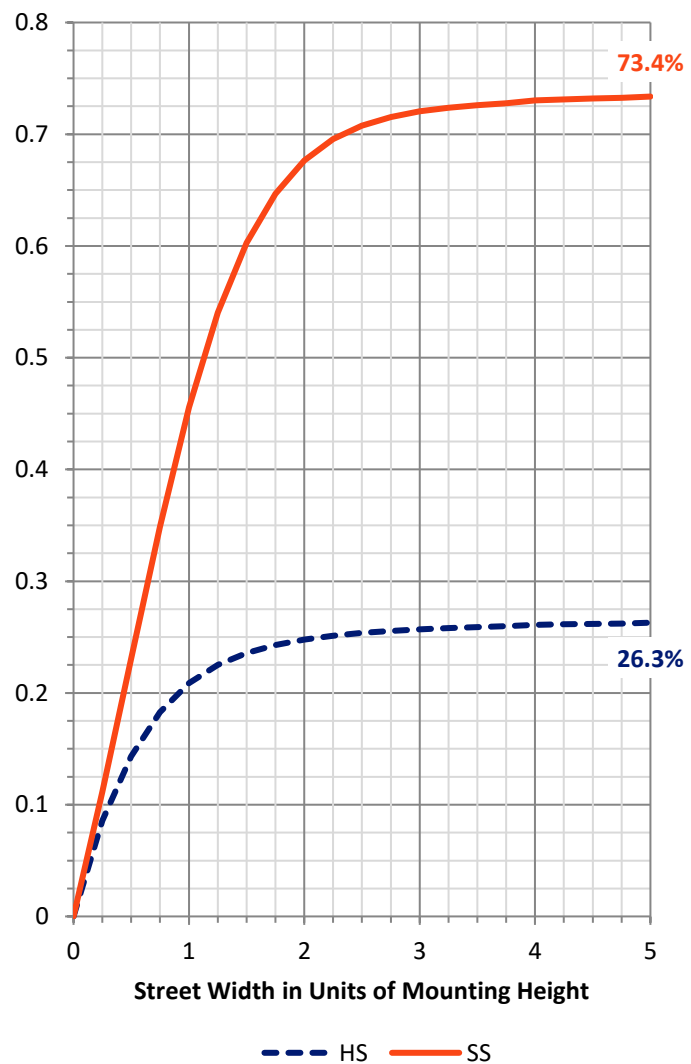
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1305.8	0.0	1305.8
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	3622.2	0.0	3622.2
	% Fixture	73.5	0.0	73.5
Total	Lumens	4928.0	0.0	4928.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	1.7
10°-20°	256.4	5.2
20°-30°	429.7	8.7
30°-40°	643.4	13.1
40°-50°	860.3	17.5
50°-60°	1004.4	20.4
60°-70°	998.7	20.3
70°-80°	591.3	12.0
80°-90°	58.3	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°	4928.0	100.0
0°-180°	4928.0	100.0

Coefficient of Utilization



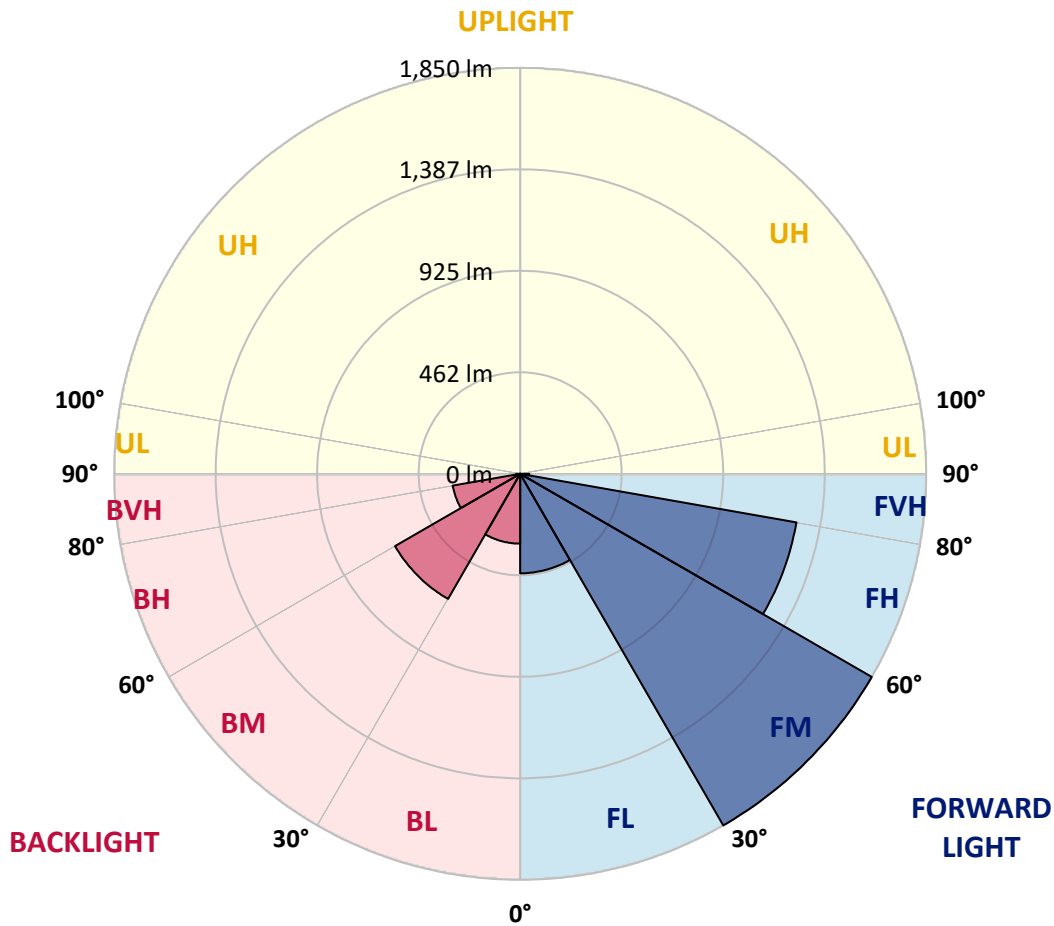
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	453.2	9.2			
FM (30°-60°)	1849.9	37.5			
FH (60°-80°)	1278.1	25.9			G1/1800
FVH (80°-90°)	41.0	0.8			G1/100
BL (0°-30°)	318.3	6.5	B1/500		
BM (30°-60°)	658.3	13.4	B1/1000		
BH (60°-80°)	311.9	6.3	B1/500		G1/500
BVH (80°-90°)	17.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4
2.5°	922.1	920.6	919.9	917.0	910.5	913.4	906.8	902.5	901.7	891.6	885.8
5°	959.9	959.1	957.7	953.3	943.2	944.6	933.7	925.7	923.5	907.6	895.2
7.5°	991.8	990.4	989.7	983.9	973.0	972.2	959.1	947.5	943.9	922.1	903.2
10°	1016.6	1014.4	1015.8	1010.0	998.4	996.2	979.5	964.2	960.6	933.0	906.8
12.5°	1037.6	1036.2	1038.4	1033.3	1023.8	1021.6	1004.9	985.3	980.9	949.0	914.8
15°	1060.9	1055.8	1060.1	1058.0	1051.4	1050.7	1035.4	1013.6	1007.8	969.3	927.2
17.5°	1073.2	1070.3	1075.4	1076.1	1073.2	1078.3	1063.8	1037.6	1032.5	988.2	938.1
20°	1081.9	1077.6	1083.4	1087.8	1089.9	1100.1	1088.5	1063.1	1057.2	1006.4	948.2
22.5°	1111.7	1102.3	1103.0	1105.9	1107.4	1121.9	1114.6	1089.9	1084.1	1028.9	960.6
25°	1186.6	1167.7	1155.3	1146.6	1136.4	1148.8	1144.4	1120.5	1115.4	1055.8	975.9
27.5°	1302.8	1278.9	1254.2	1228.7	1188.8	1183.7	1176.4	1154.6	1148.8	1082.7	991.1
30°	1435.1	1411.1	1382.0	1341.4	1266.5	1227.3	1210.6	1186.6	1180.0	1106.7	1005.7
32.5°	1566.6	1545.5	1516.5	1467.1	1360.2	1280.3	1244.7	1220.0	1213.5	1132.8	1023.1
35°	1669.1	1656.0	1637.1	1575.3	1453.3	1342.8	1294.1	1264.3	1257.1	1174.2	1055.1
37.5°	1751.9	1742.5	1726.5	1661.8	1520.8	1405.3	1350.8	1316.6	1308.7	1219.3	1089.2
40°	1874.0	1849.3	1836.2	1742.5	1579.7	1462.0	1414.7	1379.1	1370.4	1267.2	1116.8
42.5°	1977.9	1959.7	1943.7	1814.4	1635.6	1510.7	1475.1	1442.4	1430.7	1314.5	1146.6
45°	1995.3	2002.6	1994.6	1850.0	1724.3	1558.6	1536.1	1515.0	1504.1	1378.4	1191.7
47.5°	1996.0	1996.0	1948.8	1870.3	1834.0	1612.4	1601.5	1608.8	1597.1	1459.8	1245.4
50°	1943.7	1953.2	1928.5	1875.4	1863.1	1666.2	1681.4	1720.7	1709.0	1546.3	1303.6
52.5°	1835.5	1866.7	1866.0	1867.4	1820.9	1711.9	1765.7	1855.1	1835.5	1643.6	1365.3
55°	1644.4	1706.8	1762.8	1810.8	1784.6	1739.5	1868.9	1998.2	1977.9	1752.6	1427.8
57.5°	1480.9	1520.8	1590.6	1726.5	1741.7	1763.5	1965.5	2147.9	2129.7	1873.2	1493.2
60°	1294.1	1349.3	1419.1	1612.4	1689.4	1794.8	2071.6	2294.0	2276.5	1995.3	1556.4
62.5°	1007.1	1078.3	1217.8	1437.3	1613.1	1814.4	2155.2	2422.6	2414.6	2110.9	1613.1
65°	701.9	765.1	960.6	1222.2	1491.8	1805.7	2222.0	2537.4	2530.1	2205.3	1653.1
67.5°	409.8	483.2	704.1	983.9	1277.4	1745.4	2243.8	2605.0	2605.0	2262.7	1664.0
70°	234.0	268.1	464.3	717.2	979.5	1579.0	2182.8	2604.2	2616.6	2249.6	1618.9
72.5°	163.5	178.8	312.4	482.5	664.1	1277.4	2022.9	2478.5	2495.2	2126.1	1464.9
75°	127.2	138.1	220.2	329.2	418.5	867.6	1673.4	2089.8	2134.1	1812.2	1184.4
77.5°	96.6	104.6	128.6	205.6	268.1	498.5	1104.5	1370.4	1373.3	1109.6	635.1
80°	70.5	78.5	85.7	125.7	142.4	233.2	417.1	572.6	556.6	537.0	343.7
82.5°	42.1	50.1	52.3	68.3	69.8	99.5	146.1	184.6	177.3	236.2	161.3
85°	18.2	25.4	26.9	31.2	29.8	40.7	58.1	48.7	43.6	50.1	34.9
87.5°	4.4	7.3	7.3	8.0	6.5	10.2	10.9	8.0	7.3	8.7	8.7
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°	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4
2.5°	884.3	882.1	882.9	870.5	866.9	863.2	861.1	859.6	858.1	860.3	862.5
5°	890.8	885.8	879.9	861.8	854.5	846.5	840.7	835.6	833.4	833.4	835.6
7.5°	895.9	887.2	874.9	850.9	837.8	826.9	817.5	810.9	807.3	807.3	809.5
10°	896.7	884.3	864.7	835.6	818.2	802.2	791.3	784.0	778.9	778.9	780.4
12.5°	901.0	884.3	858.9	824.0	802.2	782.6	769.5	758.6	756.4	756.4	757.9
15°	908.3	887.9	855.2	813.8	787.7	765.1	750.6	739.0	734.6	737.5	738.3
17.5°	914.8	890.1	848.7	800.7	769.5	744.8	728.8	718.6	712.8	719.4	719.4
20°	919.2	890.1	839.3	784.0	749.9	722.3	707.0	694.7	690.3	698.3	699.0
22.5°	925.7	889.4	829.1	767.3	728.8	699.7	684.5	675.0	672.9	681.6	684.5
25°	933.0	890.8	818.2	748.4	705.6	677.2	665.6	661.2	662.7	673.6	677.2
27.5°	941.0	893.8	807.3	727.4	680.1	654.7	648.2	650.3	656.1	670.0	674.3
30°	948.2	894.5	792.0	702.6	651.1	627.1	630.0	639.4	648.2	662.0	667.0
32.5°	957.7	895.2	776.0	675.8	619.8	602.4	615.5	630.7	639.4	652.5	658.3
35°	980.9	907.6	763.7	649.6	590.7	581.3	603.1	622.7	627.8	639.4	644.5
37.5°	1007.8	927.9	757.1	622.7	562.4	560.2	587.8	607.5	608.9	616.2	621.3
40°	1024.5	936.6	749.9	600.2	537.0	538.4	566.8	582.0	579.1	584.2	587.8
42.5°	1041.3	939.5	734.6	581.3	513.0	514.5	536.3	547.2	548.6	559.5	564.6
45°	1069.6	947.5	717.9	563.9	491.2	486.1	499.2	513.7	532.6	553.7	559.5
47.5°	1107.4	964.2	700.5	542.8	470.1	453.4	458.5	483.9	503.6	523.2	526.8
50°	1145.9	980.9	684.5	517.4	449.1	418.5	420.7	444.0	460.0	475.2	477.4
52.5°	1183.7	995.5	670.7	493.4	425.1	377.1	385.8	409.8	420.7	428.0	430.2
55°	1221.5	1007.8	658.3	473.0	397.5	344.4	352.4	374.9	385.8	389.5	390.9
57.5°	1260.7	1022.4	648.9	455.6	366.2	315.4	320.4	336.4	346.6	351.0	349.5
60°	1293.4	1034.7	643.8	437.4	335.0	288.5	287.0	301.6	316.1	320.4	319.0
62.5°	1318.8	1042.7	635.8	414.2	307.4	261.6	254.3	273.2	288.5	291.4	293.6
65°	1332.6	1043.4	616.2	384.4	279.0	232.5	227.4	246.3	255.8	258.7	258.7
67.5°	1330.5	1031.8	577.7	344.4	252.9	206.4	202.0	213.6	227.4	229.6	227.4
70°	1285.4	983.9	515.9	302.3	221.6	183.1	175.1	186.7	199.8	191.8	188.2
72.5°	1157.5	859.6	425.1	255.8	186.7	154.0	150.4	162.0	162.8	164.2	160.6
75°	913.4	640.2	318.3	199.1	151.1	129.3	128.6	126.4	129.3	135.2	130.8
77.5°	479.6	319.7	172.2	122.1	109.7	103.9	98.8	98.1	106.8	110.4	106.1
80°	260.1	179.5	98.8	73.4	66.8	67.6	74.1	72.7	82.1	84.3	80.7
82.5°	113.4	85.0	48.7	44.3	44.3	43.6	45.8	50.9	61.0	61.0	48.7
85°	24.7	21.1	18.9	21.8	24.7	24.7	24.7	24.7	17.4	9.4	6.5
87.5°	8.0	8.0	8.0	8.7	9.4	9.4	8.0	5.8	3.6	0.7	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)