

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: P573360

Luminaire Tested: **ARCH-S-PA2-60-830-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-38)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-60-830-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7518 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.1
Input Voltage (V): NR
Input Current (A_{in}): 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

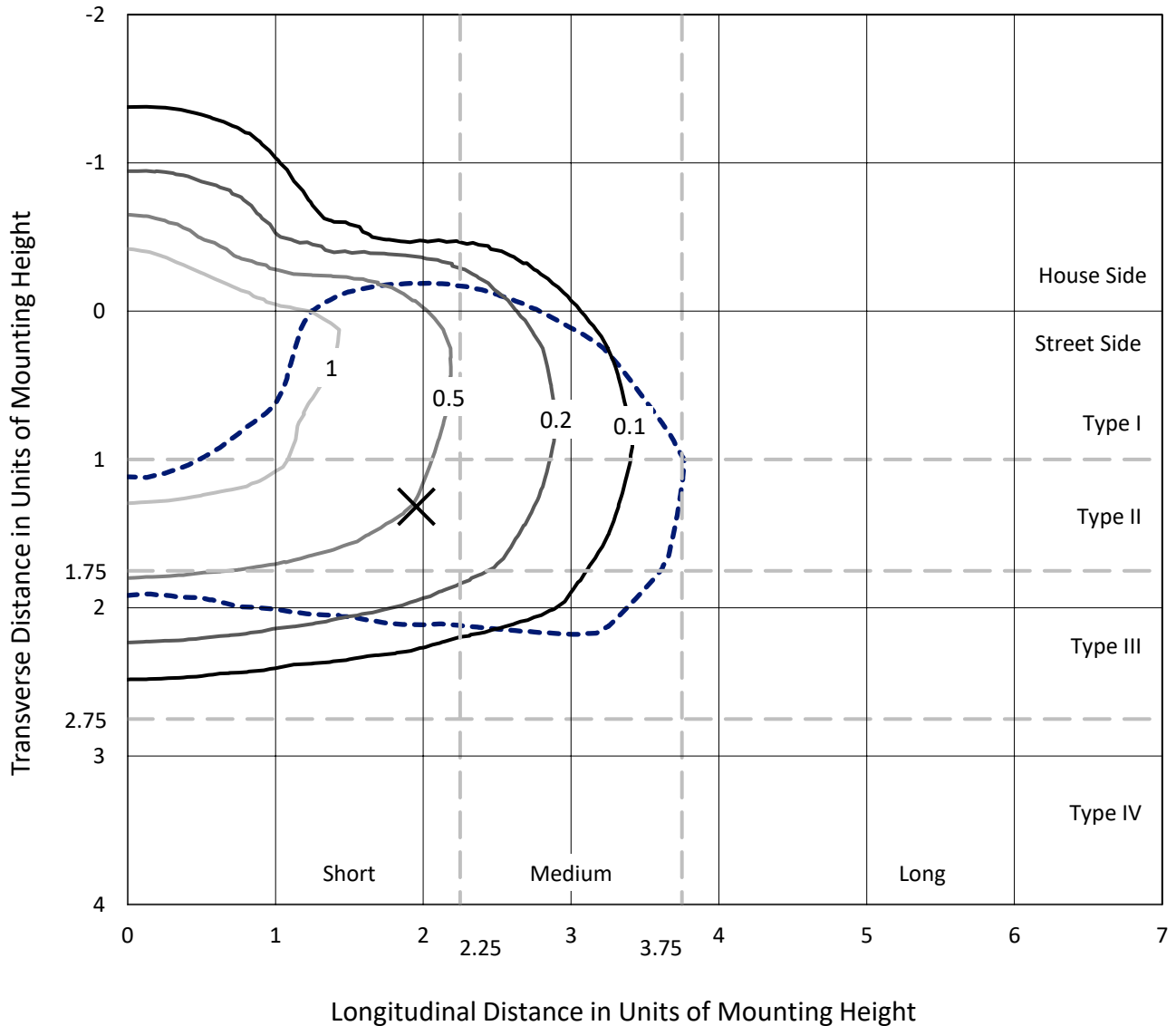




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Iso-Footcandle Lines of Horizontal Illumination

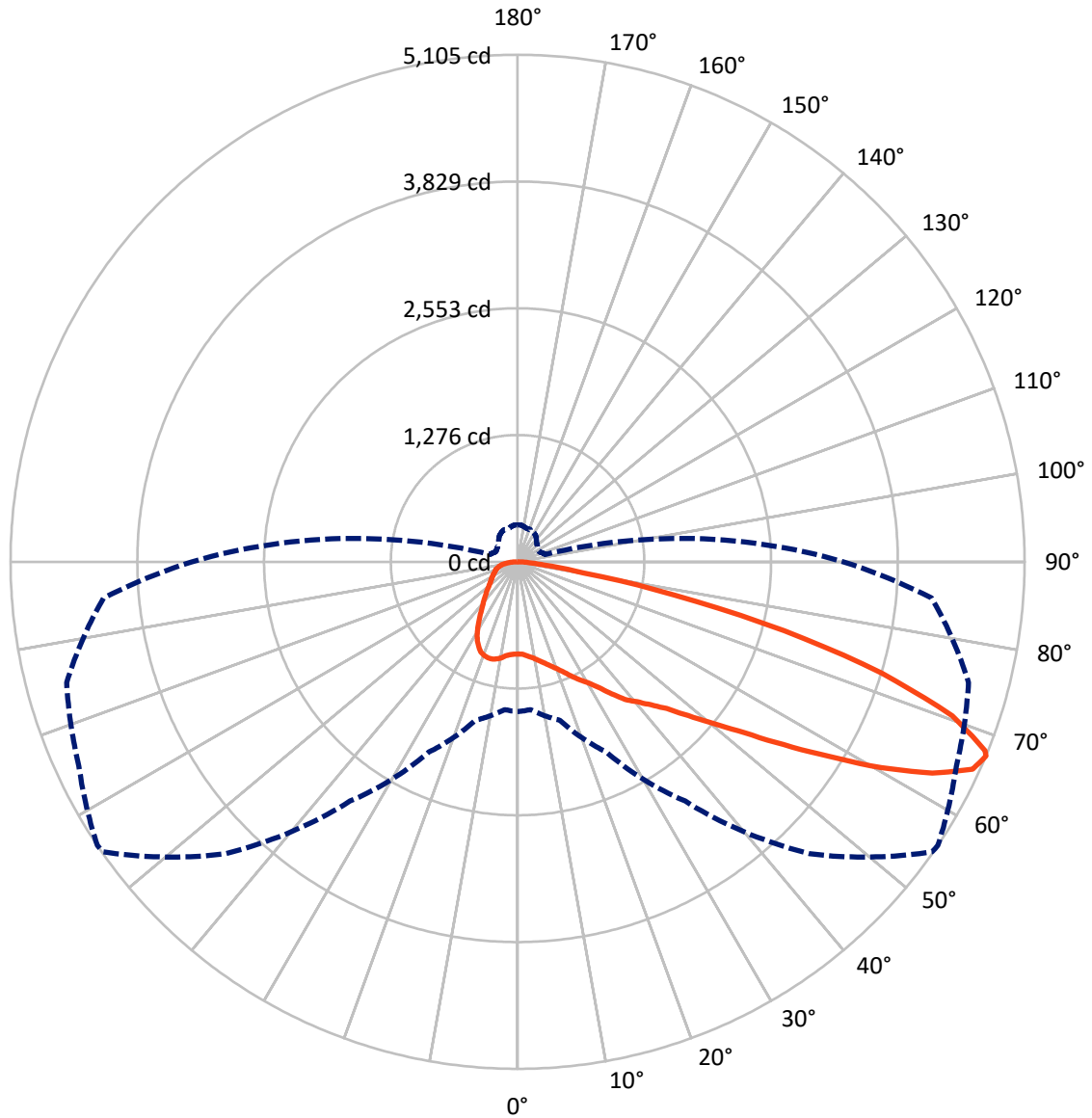
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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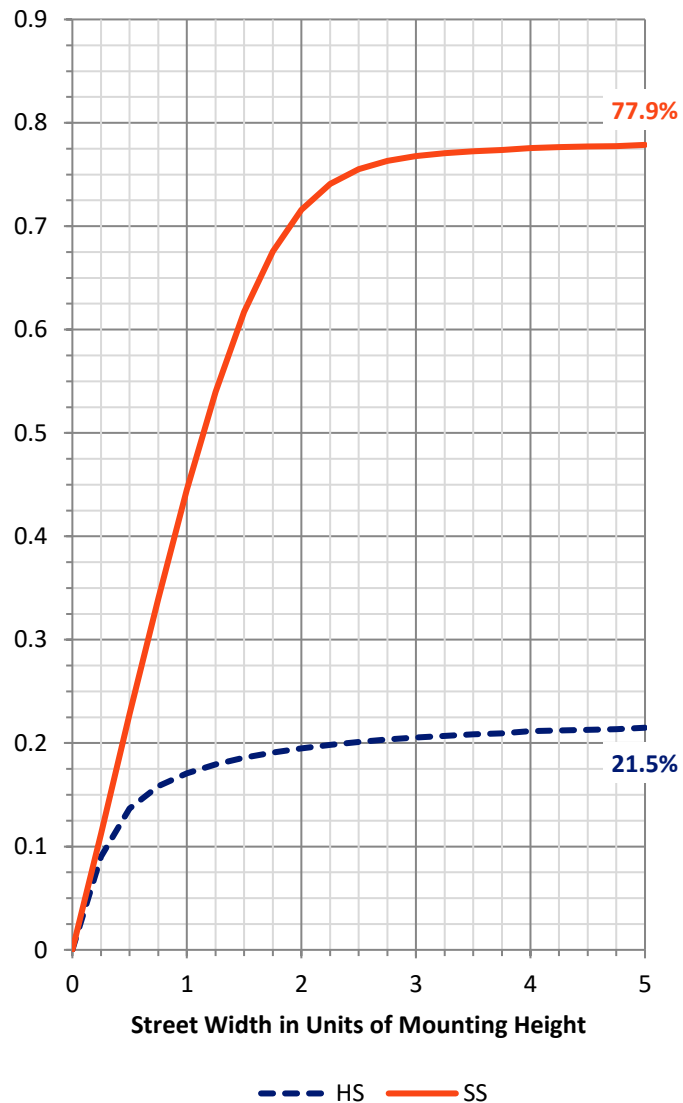
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1644.8	0.0	1644.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	5873.2	0.0	5873.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	7518.0	0.0	7518.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	1.2
10°-20°	292.8	3.9
20°-30°	509.7	6.8
30°-40°	747.3	9.9
40°-50°	1093.4	14.5
50°-60°	1708.8	22.7
60°-70°	2031.0	27.0
70°-80°	925.0	12.3
80°-90°	118.6	1.6
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°	7518.0	100.0
0°-180°	7518.0	100.0

Coefficient of Utilization

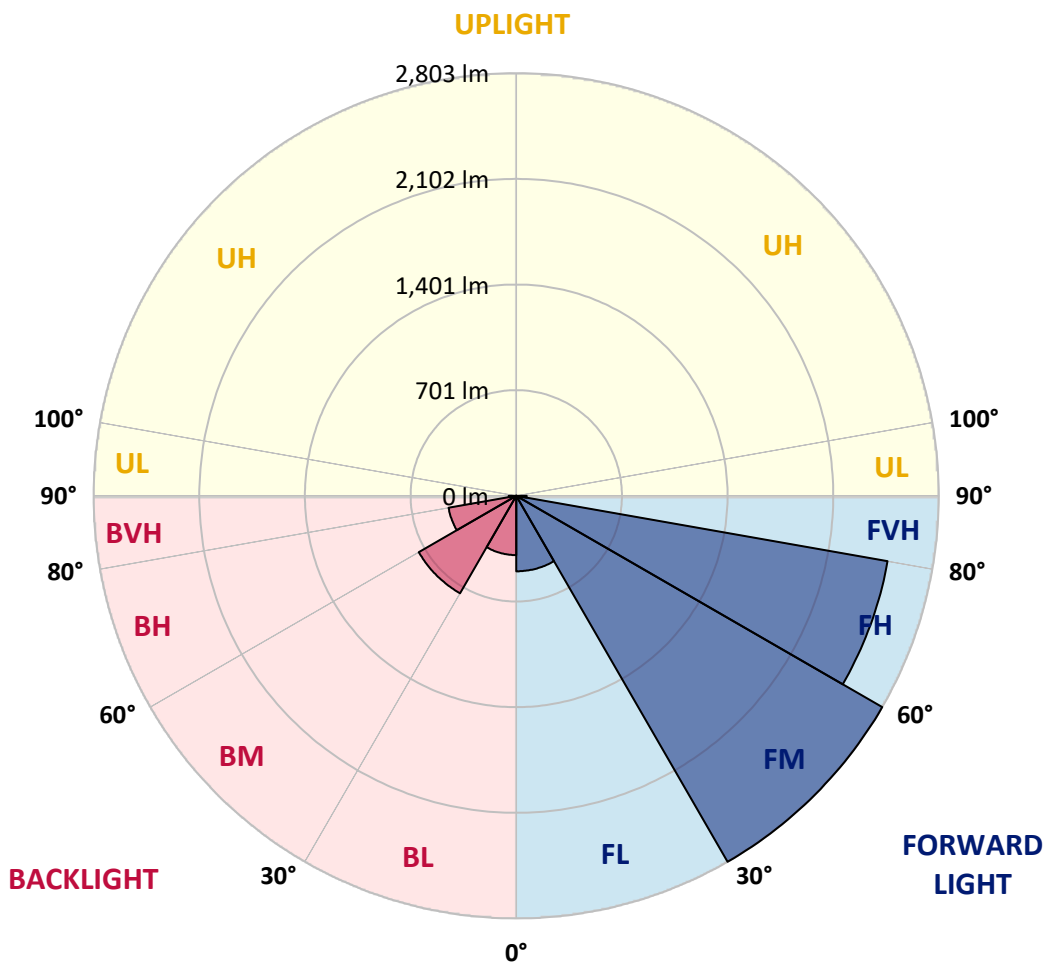


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	500.8	6.7			
FM (30°-60°)	2802.9	37.3			
FH (60°-80°)	2500.4	33.3			G2/5000
FVH (80°-90°)	69.2	0.9			G1/100
BL (0°-30°)	393.1	5.2	B1/500		
BM (30°-60°)	746.6	9.9	B1/1000		
BH (60°-80°)	455.7	6.1	B1/500		G1/500
BVH (80°-90°)	49.4	0.7			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°	56°	65°	75°	85°
0°	928.2	928.2	928.2	928.2	928.2	928.2	928.2	928.2	928.2	928.2	928.2
2.5°	942.4	938.4	936.3	938.4	936.3	932.2	934.3	932.2	930.2	928.2	928.2
5°	954.6	950.6	948.5	950.6	952.6	948.5	948.5	948.5	942.4	940.4	936.3
7.5°	962.8	956.7	956.7	960.7	964.8	966.9	970.9	968.9	962.8	958.7	950.6
10°	989.2	981.1	981.1	981.1	985.2	989.2	993.3	995.3	993.3	991.3	985.2
12.5°	1030.0	1021.8	1021.8	1021.8	1021.8	1019.8	1025.9	1027.9	1032.0	1032.0	1021.8
15°	1084.9	1074.7	1070.7	1062.5	1060.5	1056.4	1064.6	1064.6	1070.7	1072.7	1062.5
17.5°	1137.8	1125.6	1121.5	1113.4	1105.3	1095.1	1103.2	1105.3	1117.5	1119.5	1103.2
20°	1192.8	1188.7	1182.6	1170.4	1156.2	1146.0	1154.1	1152.1	1162.3	1166.3	1146.0
22.5°	1264.0	1253.9	1249.8	1233.5	1217.2	1207.0	1207.0	1211.1	1221.3	1221.3	1190.8
25°	1349.5	1335.3	1325.1	1306.8	1286.4	1274.2	1276.2	1280.3	1294.6	1284.4	1237.6
27.5°	1455.4	1441.1	1426.9	1390.2	1369.9	1345.5	1343.4	1347.5	1369.9	1343.4	1282.4
30°	1555.1	1549.0	1536.8	1508.3	1475.7	1435.0	1416.7	1418.7	1435.0	1398.4	1321.0
32.5°	1640.6	1632.5	1626.3	1606.0	1583.6	1534.8	1510.3	1512.4	1510.3	1465.5	1367.8
35°	1742.4	1730.2	1726.1	1707.8	1679.3	1646.7	1636.5	1632.5	1620.2	1559.2	1428.9
37.5°	1840.1	1827.9	1821.8	1811.6	1789.2	1760.7	1760.7	1758.7	1734.2	1648.7	1490.0
40°	1956.1	1941.8	1923.5	1917.4	1899.1	1878.7	1862.5	1852.3	1809.5	1732.2	1608.0
42.5°	2096.5	2088.4	2078.2	2051.8	2023.3	2019.2	1972.4	1968.3	1937.8	1893.0	1774.9
45°	2298.1	2281.8	2267.5	2259.4	2224.8	2188.1	2123.0	2106.7	2106.7	2096.5	1970.3
47.5°	2501.6	2473.1	2493.5	2487.4	2479.2	2438.5	2312.3	2314.3	2310.3	2336.7	2257.3
50°	2638.0	2621.7	2678.7	2705.2	2762.1	2762.1	2581.0	2558.6	2574.9	2652.2	2550.5
52.5°	2743.8	2733.6	2798.8	2902.6	3071.5	3087.8	2900.6	2853.7	2876.1	2986.0	2945.3
55°	2829.3	2819.1	2894.5	3075.6	3346.3	3446.1	3269.0	3248.6	3203.8	3321.9	3334.1
57.5°	2880.2	2857.8	2971.8	3214.0	3570.2	3800.2	3700.5	3694.4	3590.6	3700.5	3755.5
60°	2802.9	2788.6	2945.3	3271.0	3751.4	4134.1	4207.3	4207.3	4022.1	4081.1	4148.3
62.5°	2552.5	2534.2	2699.0	3138.7	3773.8	4406.8	4710.1	4685.7	4437.3	4435.3	4376.3
65°	2076.2	2053.8	2239.0	2703.1	3490.8	4439.4	5050.0	5035.8	4748.8	4667.4	4390.5
67°	1508.3	1494.0	1652.8	2112.8	2941.3	4156.4	5092.8	5105.0	4872.9	4699.9	4184.9
67.5°	1353.6	1351.6	1483.9	1939.8	2780.5	4052.6	5064.3	5076.5	4870.9	4673.5	4103.5
70°	631.0	659.5	783.7	1111.4	1874.7	3191.6	4596.1	4642.9	4610.4	4368.1	3456.2
72.5°	293.1	305.3	360.3	537.4	1007.6	2057.9	3724.9	3836.9	3979.4	3747.3	2737.7
75°	181.2	185.2	215.8	278.9	474.3	989.2	2652.2	2774.4	2990.1	2819.1	1750.5
77.5°	142.5	144.5	164.9	199.5	276.8	425.4	1455.4	1608.0	1888.9	1667.1	881.4
80°	105.8	109.9	126.2	154.7	195.4	217.8	618.8	675.8	911.9	698.2	366.4
82.5°	77.3	81.4	97.7	112.0	136.4	138.4	252.4	266.6	390.8	282.9	158.8
85°	65.1	65.1	75.3	83.5	91.6	77.3	124.2	122.1	150.6	128.2	63.1
87.5°	30.5	32.6	71.2	52.9	44.8	32.6	36.6	38.7	46.8	50.9	24.4
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°	928.2	928.2	928.2	928.2	928.2	928.2	928.2	928.2	928.2	928.2	928.2
2.5°	926.1	926.1	926.1	928.2	930.2	930.2	932.2	932.2	934.3	936.3	940.4
5°	934.3	934.3	932.2	934.3	938.4	940.4	944.5	948.5	952.6	956.7	958.7
7.5°	950.6	948.5	948.5	948.5	952.6	956.7	962.8	966.9	973.0	975.0	979.1
10°	981.1	977.0	977.0	979.1	981.1	975.0	973.0	970.9	977.0	981.1	985.2
12.5°	1017.7	1013.7	1011.6	1005.5	997.4	985.2	975.0	966.9	968.9	973.0	979.1
15°	1056.4	1048.3	1044.2	1030.0	1009.6	983.1	966.9	956.7	956.7	956.7	962.8
17.5°	1097.1	1089.0	1072.7	1046.2	1007.6	970.9	950.6	932.2	924.1	922.1	926.1
20°	1135.8	1123.6	1097.1	1056.4	995.3	946.5	920.0	889.5	877.3	869.1	873.2
22.5°	1172.4	1156.2	1119.5	1056.4	975.0	909.9	863.0	822.3	802.0	797.9	799.9
25°	1211.1	1190.8	1141.9	1044.2	930.2	854.9	789.8	747.0	720.6	716.5	722.6
27.5°	1249.8	1219.3	1160.2	1011.6	879.3	779.6	710.4	669.7	655.4	647.3	649.3
30°	1282.4	1253.9	1178.5	966.9	810.1	692.1	629.0	610.6	600.5	596.4	596.4
32.5°	1325.1	1298.6	1190.8	913.9	728.7	612.7	572.0	557.7	549.6	539.4	541.4
35°	1378.0	1353.6	1184.6	846.8	651.4	559.8	527.2	506.8	488.5	474.3	472.2
37.5°	1449.3	1430.9	1154.1	765.3	580.1	521.1	488.5	462.1	435.6	413.2	409.1
40°	1567.3	1524.6	1109.3	675.8	531.3	490.6	451.9	419.3	386.7	362.3	356.2
42.5°	1717.9	1628.4	1048.3	584.2	490.6	458.0	419.3	376.6	346.0	323.6	323.6
45°	1893.0	1740.3	975.0	515.0	447.8	425.4	378.6	342.0	323.6	309.4	307.4
47.5°	2100.6	1852.3	881.4	460.0	413.2	396.9	350.1	327.7	315.5	303.3	301.3
50°	2379.5	2002.9	812.2	413.2	378.6	364.4	342.0	323.6	311.4	303.3	301.3
52.5°	2699.0	2196.3	763.3	376.6	350.1	344.0	339.9	325.7	313.5	307.4	305.3
55°	3045.1	2434.4	716.5	346.0	327.7	335.9	344.0	329.7	321.6	313.5	309.4
57.5°	3370.8	2635.9	641.2	319.6	311.4	325.7	342.0	331.8	321.6	315.5	313.5
60°	3592.6	2737.7	537.4	295.1	295.1	311.4	335.9	321.6	311.4	313.5	313.5
62.5°	3663.9	2699.0	425.4	272.8	278.9	295.1	317.5	309.4	305.3	315.5	315.5
65°	3558.0	2542.3	339.9	254.4	262.6	274.8	307.4	315.5	327.7	350.1	352.1
67°	3281.2	2289.9	287.0	240.2	248.3	268.7	319.6	348.1	348.1	372.5	372.5
67.5°	3199.8	2204.4	278.9	236.1	246.3	268.7	325.7	356.2	348.1	376.6	376.6
70°	2601.3	1734.2	236.1	223.9	238.2	282.9	352.1	358.2	339.9	366.4	364.4
72.5°	1929.6	1253.9	215.8	211.7	221.9	266.6	350.1	344.0	317.5	325.7	319.6
75°	1192.8	726.7	199.5	195.4	201.5	236.1	323.6	313.5	282.9	276.8	270.7
77.5°	576.0	368.4	171.0	177.1	183.2	205.6	285.0	274.8	248.3	234.1	232.0
80°	250.4	189.3	146.6	156.7	158.8	175.1	236.1	223.9	199.5	177.1	177.1
82.5°	124.2	105.8	116.0	130.3	126.2	140.4	185.2	164.9	146.6	122.1	118.1
85°	57.0	61.1	85.5	97.7	85.5	87.5	126.2	116.0	91.6	69.2	71.2
87.5°	20.4	28.5	48.9	59.0	42.7	40.7	67.2	48.9	28.5	8.1	10.2
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)