

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: P573297

Luminaire Tested: **ARCH-S-PA2-60-727-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573297
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-PA2-60-727-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7913 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

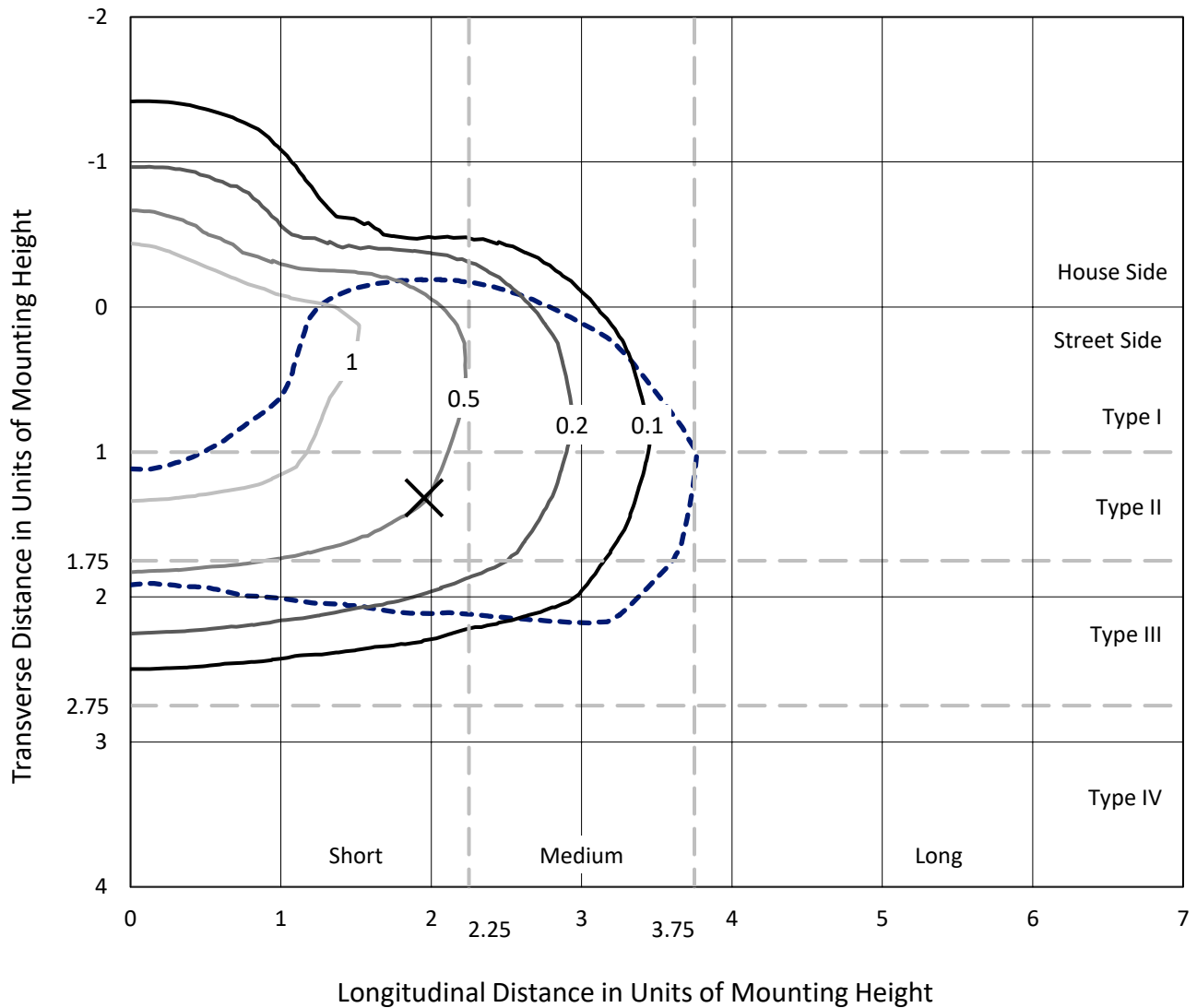
Input Watts (W): 63.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

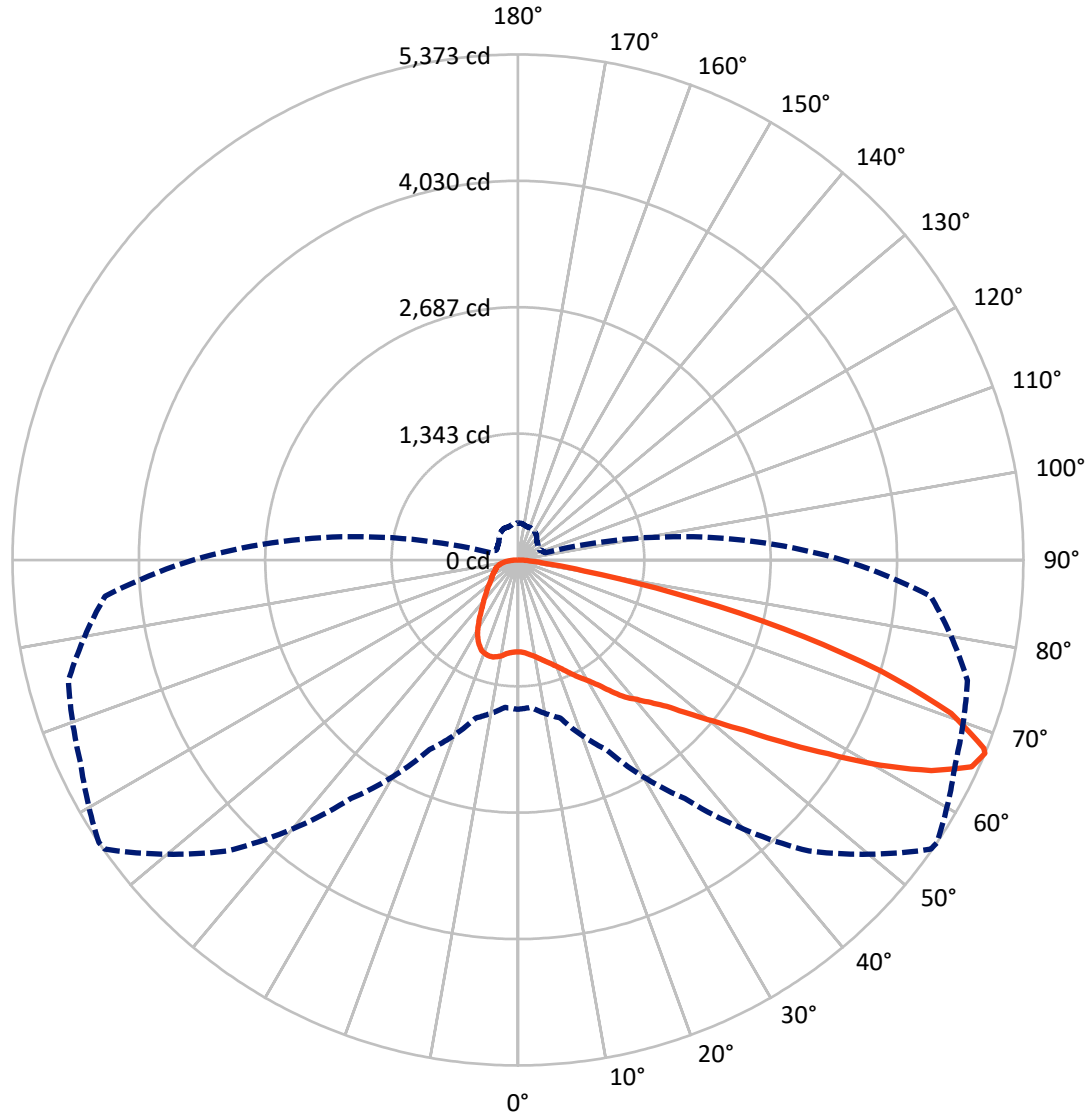
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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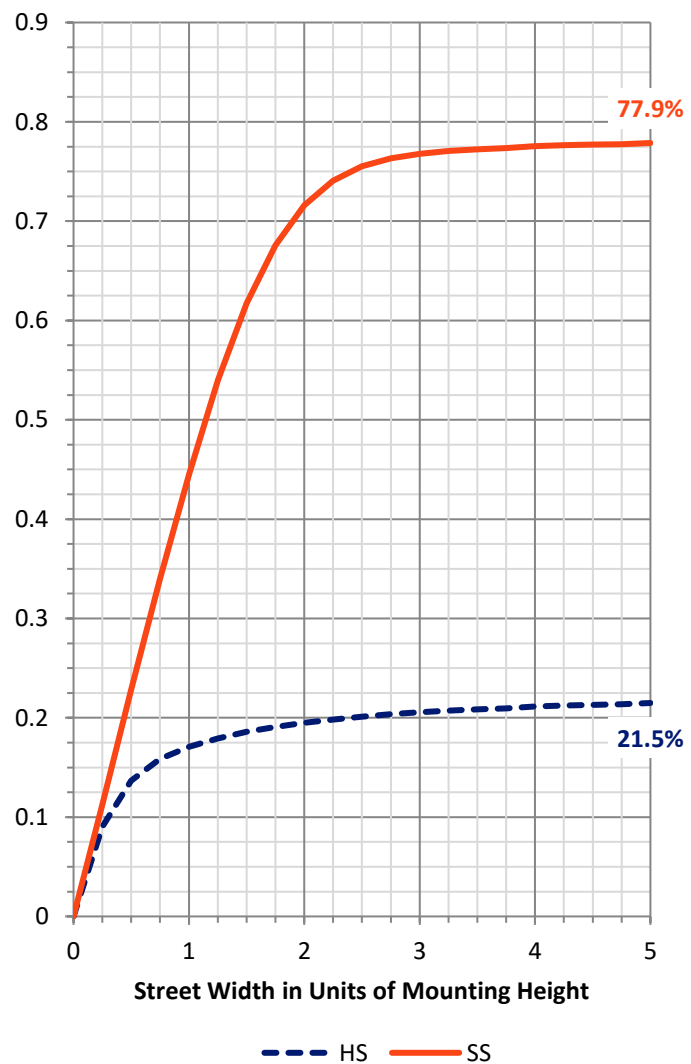
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1731.2	0.0	1731.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	6181.8	0.0	6181.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	7913.0	0.0	7913.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.1	1.2
10°-20°	308.2	3.9
20°-30°	536.5	6.8
30°-40°	786.6	9.9
40°-50°	1150.8	14.5
50°-60°	1798.6	22.7
60°-70°	2137.7	27.0
70°-80°	973.6	12.3
80°-90°	124.8	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°	7913.0	100.0
0°-180°	7913.0	100.0

Coefficient of Utilization



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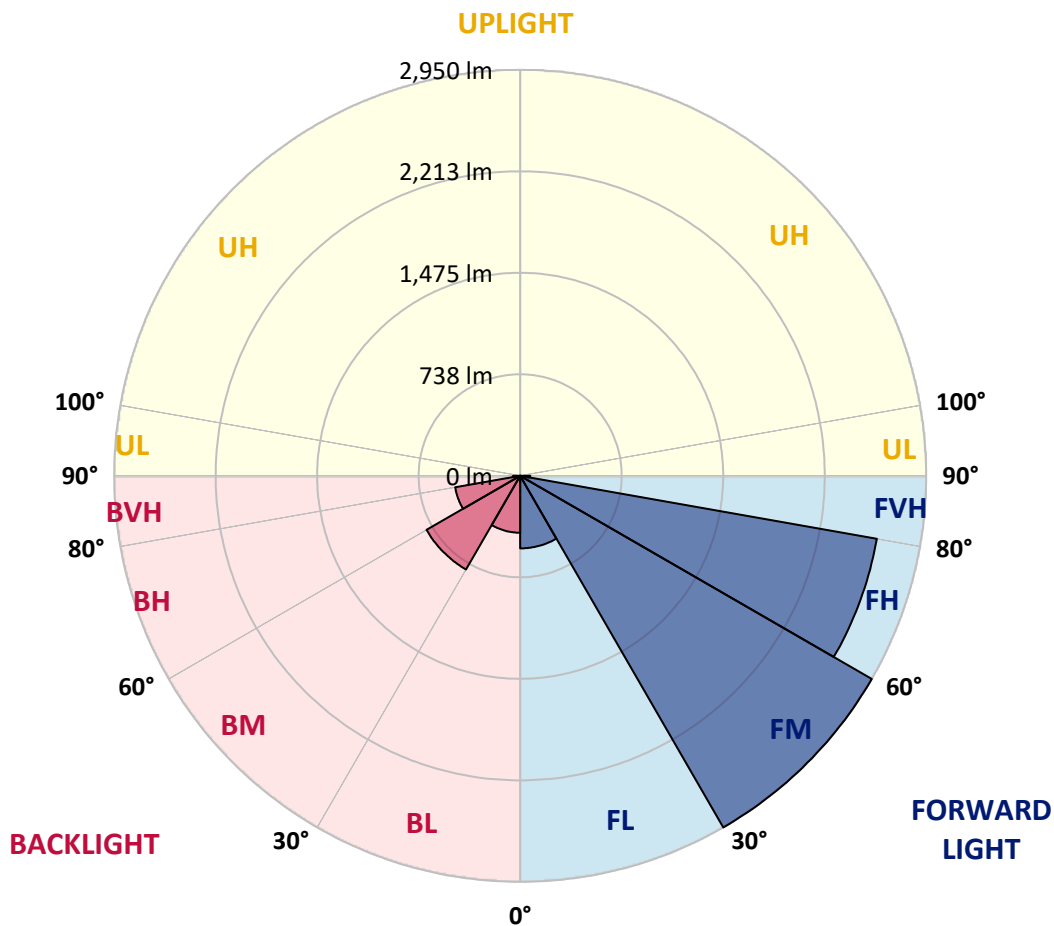
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	527.1	6.7			
FM (30°-60°)	2950.2	37.3			
FH (60°-80°)	2631.7	33.3			G2/5000
FVH (80°-90°)	72.8	0.9			G1/100
BL (0°-30°)	413.7	5.2	B1/500		
BM (30°-60°)	785.8	9.9	B1/1000		
BH (60°-80°)	479.6	6.1	B1/500		G1/500
BVH (80°-90°)	52.0	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°	976.9	976.9	976.9	976.9	976.9	976.9	976.9	976.9	976.9	976.9	976.9
2.5°	991.9	987.7	985.5	987.7	985.5	981.2	983.4	981.2	979.1	976.9	976.9
5°	1004.8	1000.5	998.4	1000.5	1002.7	998.4	998.4	998.4	991.9	989.8	985.5
7.5°	1013.4	1006.9	1006.9	1011.2	1015.5	1017.7	1021.9	1019.8	1013.4	1009.1	1000.5
10°	1041.2	1032.6	1032.6	1032.6	1036.9	1041.2	1045.5	1047.6	1045.5	1043.4	1036.9
12.5°	1084.1	1075.5	1075.5	1075.5	1075.5	1073.4	1079.8	1081.9	1086.2	1086.2	1075.5
15°	1141.9	1131.2	1126.9	1118.3	1116.2	1111.9	1120.5	1120.5	1126.9	1129.1	1118.3
17.5°	1197.6	1184.8	1180.5	1171.9	1163.3	1152.6	1161.2	1163.3	1176.2	1178.3	1161.2
20°	1255.5	1251.2	1244.7	1231.9	1216.9	1206.2	1214.8	1212.6	1223.3	1227.6	1206.2
22.5°	1330.4	1319.7	1315.4	1298.3	1281.2	1270.5	1270.5	1274.7	1285.5	1285.5	1253.3
25°	1420.4	1405.4	1394.7	1375.4	1354.0	1341.2	1343.3	1347.6	1362.6	1351.9	1302.6
27.5°	1531.8	1516.8	1501.8	1463.3	1441.9	1416.1	1414.0	1418.3	1441.9	1414.0	1349.7
30°	1636.8	1630.4	1617.5	1587.5	1553.3	1510.4	1491.1	1493.3	1510.4	1471.8	1390.4
32.5°	1726.8	1718.2	1711.8	1690.4	1666.8	1615.4	1589.7	1591.8	1589.7	1542.5	1439.7
35°	1833.9	1821.1	1816.8	1797.5	1767.5	1733.2	1722.5	1718.2	1705.4	1641.1	1504.0
37.5°	1936.8	1923.9	1917.5	1906.8	1883.2	1853.2	1853.2	1851.1	1825.3	1735.4	1568.3
40°	2058.9	2043.9	2024.6	2018.2	1998.9	1977.5	1960.3	1949.6	1904.6	1823.2	1692.5
42.5°	2206.7	2198.1	2187.4	2159.6	2129.6	2125.3	2076.0	2071.7	2039.6	1992.5	1868.2
45°	2418.8	2401.7	2386.7	2378.1	2341.7	2303.1	2234.5	2217.4	2217.4	2206.7	2073.9
47.5°	2633.0	2603.0	2624.5	2618.0	2609.5	2566.6	2433.8	2435.9	2431.7	2459.5	2375.9
50°	2776.6	2759.4	2819.4	2847.3	2907.3	2907.3	2716.6	2693.0	2710.2	2791.6	2684.5
52.5°	2888.0	2877.3	2945.8	3055.1	3232.9	3250.1	3053.0	3003.7	3027.2	3142.9	3100.1
55°	2978.0	2967.3	3046.5	3237.2	3522.1	3627.1	3440.7	3419.3	3372.2	3496.4	3509.3
57.5°	3031.5	3008.0	3127.9	3382.9	3757.8	3999.9	3894.9	3888.5	3779.2	3894.9	3952.8
60°	2950.1	2935.1	3100.1	3442.9	3948.5	4351.3	4428.4	4428.4	4233.4	4295.6	4366.3
62.5°	2686.6	2667.3	2840.9	3303.6	3972.1	4638.3	4957.6	4931.9	4670.5	4668.3	4606.2
65°	2185.3	2161.7	2356.7	2845.1	3674.3	4672.6	5315.4	5300.4	4998.3	4912.6	4621.2
67°	1587.5	1572.5	1739.6	2223.8	3095.8	4374.8	5360.3	5373.2	5129.0	4946.9	4404.8
67.5°	1424.7	1422.6	1561.8	2041.7	2926.6	4265.6	5330.4	5343.2	5126.8	4919.0	4319.1
70°	664.2	694.1	824.8	1169.8	1973.2	3359.3	4837.6	4886.9	4852.6	4597.6	3637.8
72.5°	308.5	321.4	379.2	565.6	1060.5	2166.0	3920.6	4038.5	4188.4	3944.2	2881.6
75°	190.7	195.0	227.1	293.5	499.2	1041.2	2791.6	2920.1	3147.2	2967.3	1842.5
77.5°	150.0	152.1	173.5	210.0	291.4	447.8	1531.8	1692.5	1988.2	1754.6	927.7
80°	111.4	115.7	132.8	162.8	205.7	229.2	651.3	711.3	959.8	734.9	385.6
82.5°	81.4	85.7	102.8	117.8	143.5	145.7	265.7	280.7	411.3	297.8	167.1
85°	68.6	68.6	79.3	87.8	96.4	81.4	130.7	128.5	158.5	135.0	66.4
87.5°	32.1	34.3	75.0	55.7	47.1	34.3	38.6	40.7	49.3	53.6	25.7
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°	976.9	976.9	976.9	976.9	976.9	976.9	976.9	976.9	976.9	976.9	976.9
2.5°	974.8	974.8	974.8	976.9	979.1	979.1	981.2	981.2	983.4	985.5	989.8
5°	983.4	983.4	981.2	983.4	987.7	989.8	994.1	998.4	1002.7	1006.9	1009.1
7.5°	1000.5	998.4	998.4	998.4	1002.7	1006.9	1013.4	1017.7	1024.1	1026.2	1030.5
10°	1032.6	1028.4	1028.4	1030.5	1032.6	1026.2	1024.1	1021.9	1028.4	1032.6	1036.9
12.5°	1071.2	1066.9	1064.8	1058.4	1049.8	1036.9	1026.2	1017.7	1019.8	1024.1	1030.5
15°	1111.9	1103.3	1099.1	1084.1	1062.6	1034.8	1017.7	1006.9	1006.9	1006.9	1013.4
17.5°	1154.8	1146.2	1129.1	1101.2	1060.5	1021.9	1000.5	981.2	972.7	970.5	974.8
20°	1195.5	1182.6	1154.8	1111.9	1047.6	996.2	968.4	936.2	923.4	914.8	919.1
22.5°	1234.0	1216.9	1178.3	1111.9	1026.2	957.7	908.4	865.5	844.1	839.8	842.0
25°	1274.7	1253.3	1201.9	1099.1	979.1	899.8	831.3	786.3	758.4	754.1	760.6
27.5°	1315.4	1283.3	1221.2	1064.8	925.5	820.5	747.7	704.9	689.9	681.3	683.4
30°	1349.7	1319.7	1240.5	1017.7	852.7	728.4	662.0	642.7	632.0	627.7	627.7
32.5°	1394.7	1366.9	1253.3	961.9	767.0	644.9	602.0	587.0	578.5	567.7	569.9
35°	1450.4	1424.7	1246.9	891.2	685.6	589.2	554.9	533.5	514.2	499.2	497.0
37.5°	1525.4	1506.1	1214.8	805.6	610.6	548.5	514.2	486.3	458.5	434.9	430.6
40°	1649.7	1604.7	1167.6	711.3	559.2	516.3	475.6	441.3	407.1	381.4	374.9
42.5°	1808.2	1713.9	1103.3	614.9	516.3	482.0	441.3	396.3	364.2	340.6	340.6
45°	1992.5	1831.8	1026.2	542.0	471.3	447.8	398.5	359.9	340.6	325.6	323.5
47.5°	2211.0	1949.6	927.7	484.2	434.9	417.8	368.5	344.9	332.1	319.2	317.1
50°	2504.5	2108.1	854.8	434.9	398.5	383.5	359.9	340.6	327.8	319.2	317.1
52.5°	2840.9	2311.7	803.4	396.3	368.5	362.1	357.8	342.8	329.9	323.5	321.4
55°	3205.1	2562.3	754.1	364.2	344.9	353.5	362.1	347.1	338.5	329.9	325.6
57.5°	3547.9	2774.4	674.9	336.4	327.8	342.8	359.9	349.2	338.5	332.1	329.9
60°	3781.4	2881.6	565.6	310.7	310.7	327.8	353.5	338.5	327.8	329.9	329.9
62.5°	3856.4	2840.9	447.8	287.1	293.5	310.7	334.2	325.6	321.4	332.1	332.1
65°	3745.0	2675.9	357.8	267.8	276.4	289.2	323.5	332.1	344.9	368.5	370.6
67°	3453.6	2410.2	302.1	252.8	261.4	282.8	336.4	366.4	366.4	392.1	392.1
67.5°	3367.9	2320.2	293.5	248.5	259.2	282.8	342.8	374.9	366.4	396.3	396.3
70°	2738.0	1825.3	248.5	235.7	250.7	297.8	370.6	377.1	357.8	385.6	383.5
72.5°	2031.0	1319.7	227.1	222.8	233.5	280.7	368.5	362.1	334.2	342.8	336.4
75°	1255.5	764.8	210.0	205.7	212.1	248.5	340.6	329.9	297.8	291.4	284.9
77.5°	606.3	387.8	180.0	186.4	192.8	216.4	299.9	289.2	261.4	246.4	244.2
80°	263.5	199.2	154.3	165.0	167.1	184.2	248.5	235.7	210.0	186.4	186.4
82.5°	130.7	111.4	122.1	137.1	132.8	147.8	195.0	173.5	154.3	128.5	124.3
85°	60.0	64.3	90.0	102.8	90.0	92.1	132.8	122.1	96.4	72.8	75.0
87.5°	21.4	30.0	51.4	62.1	45.0	42.8	70.7	51.4	30.0	8.6	10.7
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)