

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: P573468

Luminaire Tested: **ARCH-S-PA2-80-730-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573468
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-PA2-80-730-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 820mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10777 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

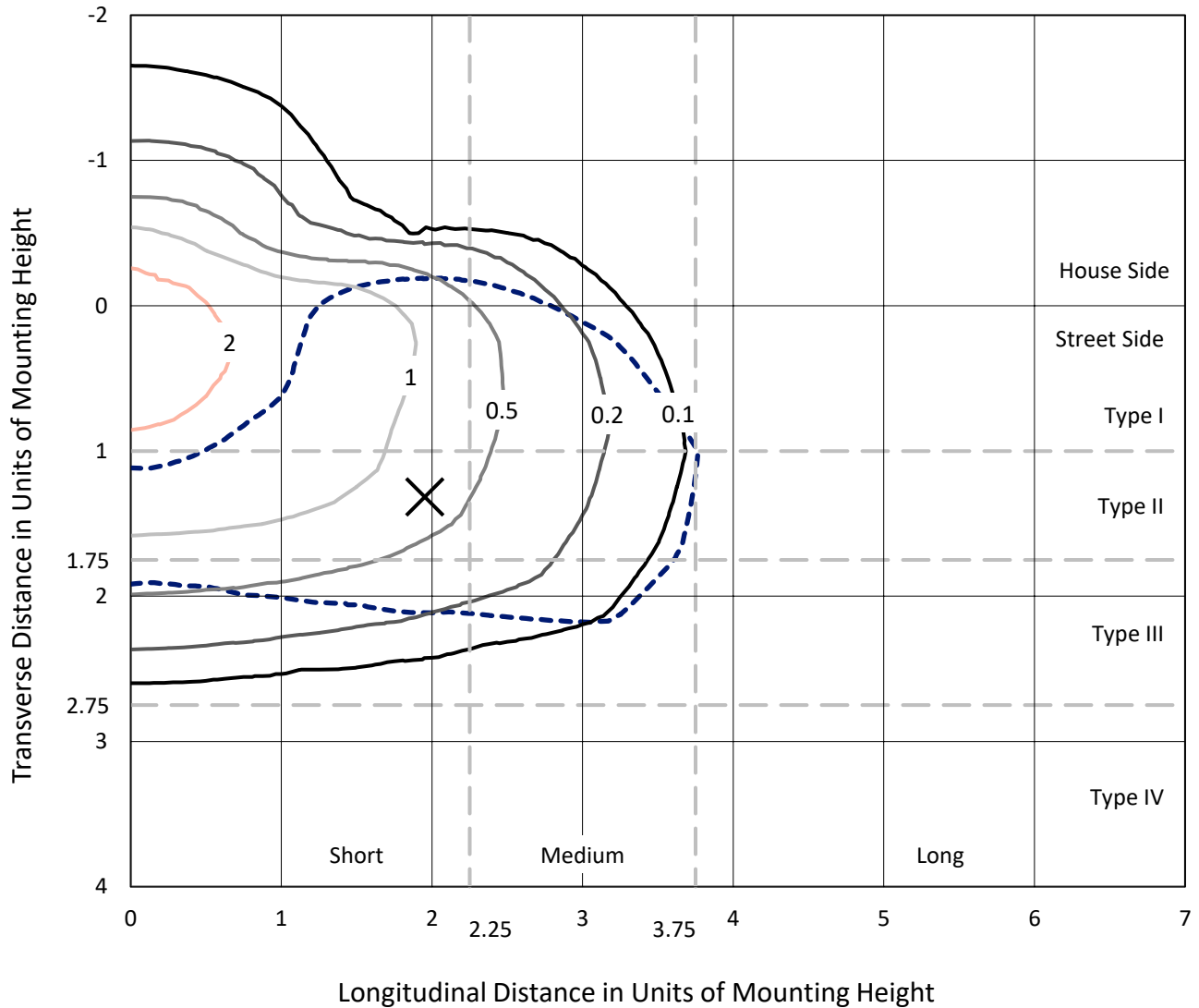
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

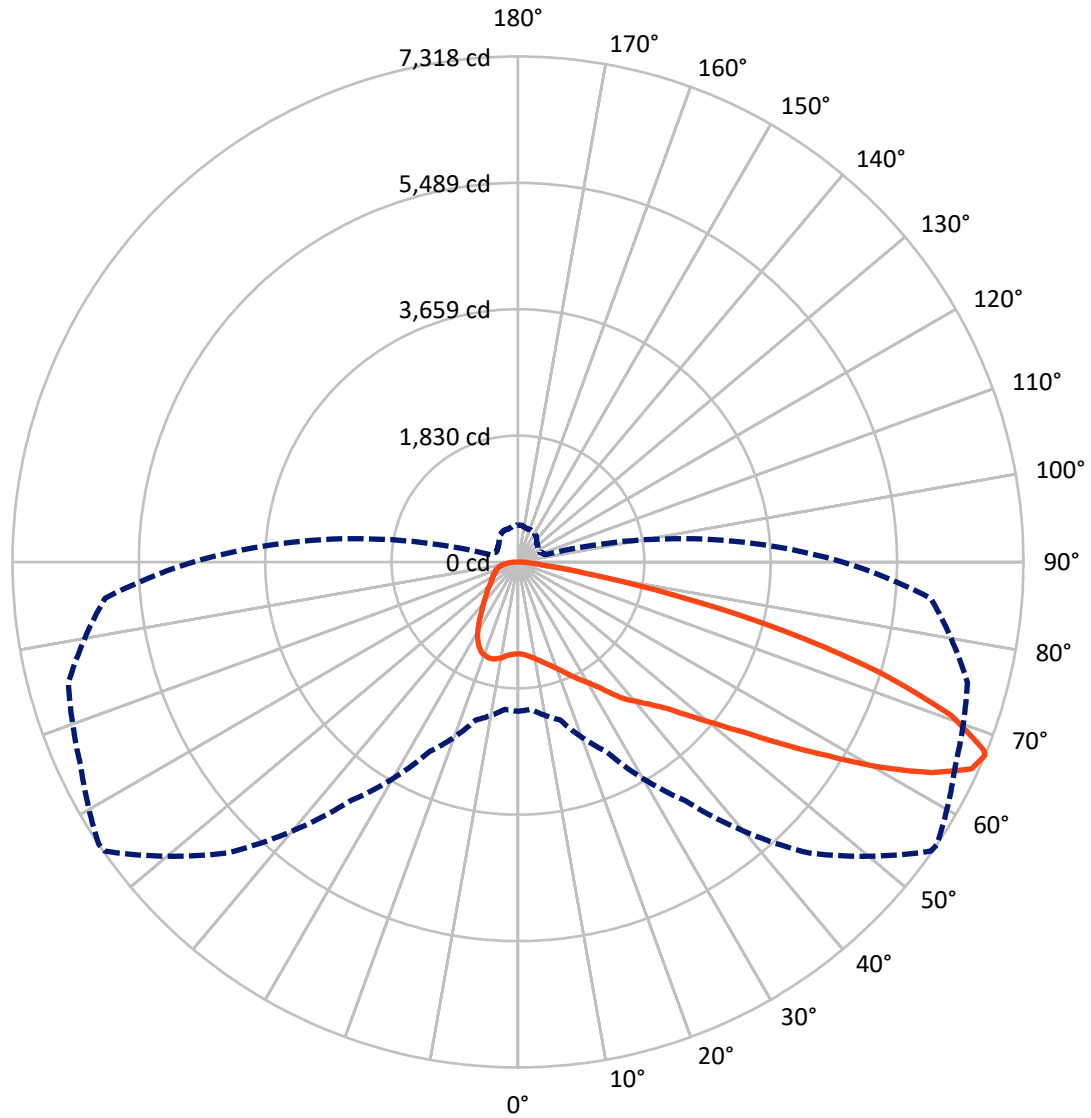
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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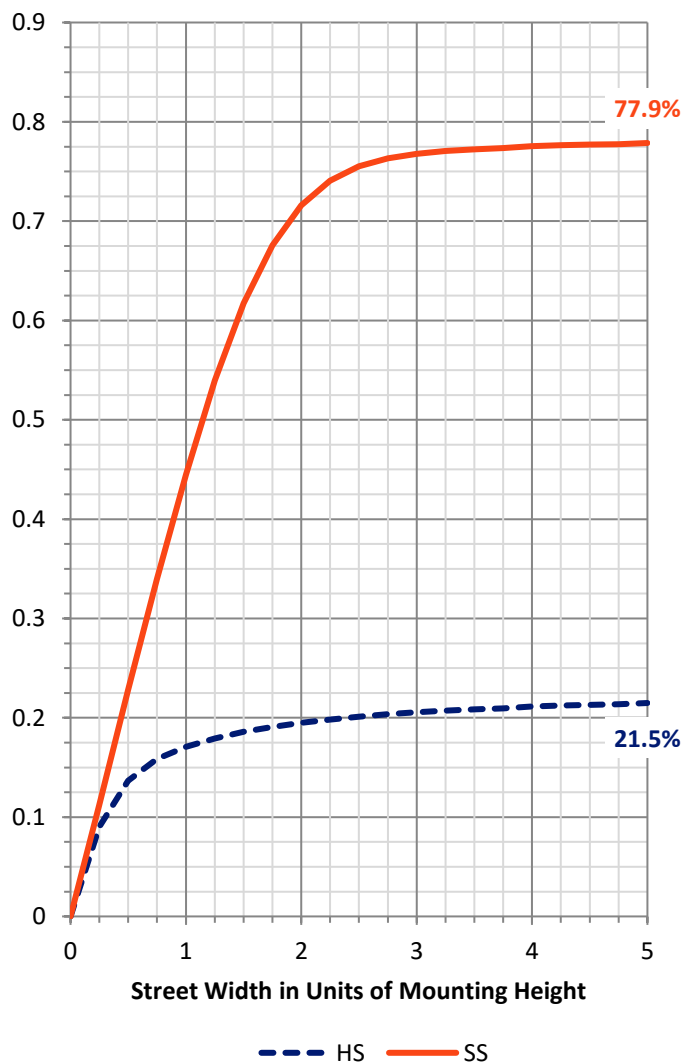
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2357.8	0.0	2357.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	8419.2	0.0	8419.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	10777.0	0.0	10777.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.9	1.2
10°-20°	419.8	3.9
20°-30°	730.6	6.8
30°-40°	1071.2	9.9
40°-50°	1567.4	14.5
50°-60°	2449.6	22.7
60°-70°	2911.5	27.0
70°-80°	1326.0	12.3
80°-90°	170.0	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°	10777.0	100.0
0°-180°	10777.0	100.0

Coefficient of Utilization



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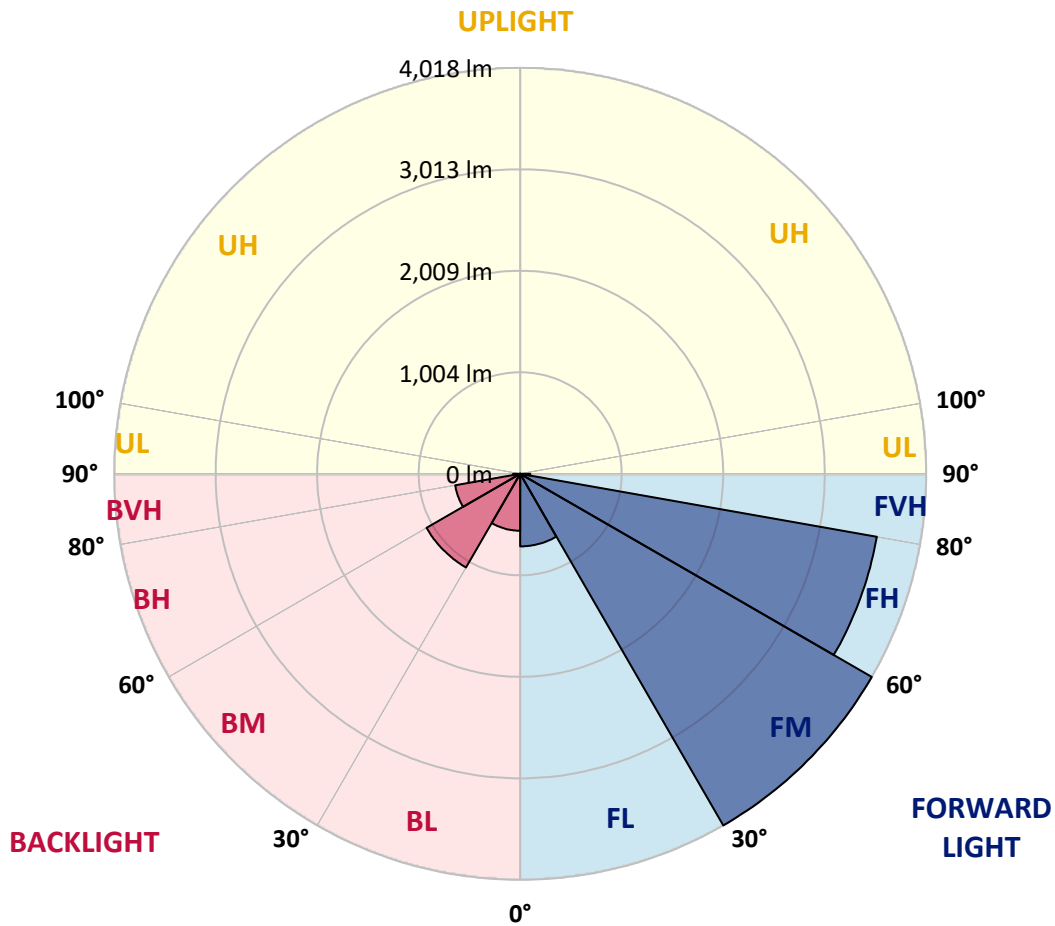
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	717.8	6.7			
FM (30°-60°)	4018.0	37.3			
FH (60°-80°)	3584.3	33.3			G2/5000
FVH (80°-90°)	99.2	0.9			G1/100
BL (0°-30°)	563.5	5.2	B2/1000		
BM (30°-60°)	1070.3	9.9	B2/2500		
BH (60°-80°)	653.2	6.1	B2/1000		G2/1000
BVH (80°-90°)	70.9	0.7			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5
2.5°	1351.0	1345.1	1342.2	1345.1	1342.2	1336.4	1339.3	1336.4	1333.5	1330.5	1330.5
5°	1368.5	1362.6	1359.7	1362.6	1365.6	1359.7	1359.7	1359.7	1351.0	1348.0	1342.2
7.5°	1380.1	1371.4	1371.4	1377.2	1383.1	1386.0	1391.8	1388.9	1380.1	1374.3	1362.6
10°	1418.1	1406.4	1406.4	1406.4	1412.2	1418.1	1423.9	1426.8	1423.9	1421.0	1412.2
12.5°	1476.4	1464.8	1464.8	1464.8	1464.8	1461.8	1470.6	1473.5	1479.3	1479.3	1464.8
15°	1555.2	1540.6	1534.8	1523.1	1520.2	1514.4	1526.0	1526.0	1534.8	1537.7	1523.1
17.5°	1631.1	1613.6	1607.7	1596.1	1584.4	1569.8	1581.5	1584.4	1601.9	1604.8	1581.5
20°	1709.9	1704.0	1695.3	1677.8	1657.3	1642.7	1654.4	1651.5	1666.1	1671.9	1642.7
22.5°	1812.0	1797.4	1791.6	1768.2	1744.9	1730.3	1730.3	1736.1	1750.7	1750.7	1706.9
25°	1934.5	1914.1	1899.5	1873.3	1844.1	1826.6	1829.5	1835.3	1855.7	1841.2	1774.0
27.5°	2086.3	2065.8	2045.4	1992.9	1963.7	1928.7	1925.8	1931.6	1963.7	1925.8	1838.2
30°	2229.2	2220.5	2203.0	2162.1	2115.4	2057.1	2030.8	2033.7	2057.1	2004.6	1893.7
32.5°	2351.8	2340.1	2331.4	2302.2	2270.1	2200.1	2165.0	2168.0	2165.0	2100.8	1960.8
35°	2497.7	2480.2	2474.3	2448.1	2407.2	2360.5	2345.9	2340.1	2322.6	2235.1	2048.3
37.5°	2637.7	2620.2	2611.5	2596.9	2564.8	2523.9	2523.9	2521.0	2486.0	2363.5	2135.9
40°	2804.0	2783.6	2757.4	2748.6	2722.3	2693.2	2669.8	2655.2	2594.0	2483.1	2305.1
42.5°	3005.4	2993.7	2979.1	2941.2	2900.3	2894.5	2827.4	2821.6	2777.8	2713.6	2544.4
45°	3294.2	3270.9	3250.5	3238.8	3189.2	3136.7	3043.3	3020.0	3020.0	3005.4	2824.5
47.5°	3586.0	3545.2	3574.4	3565.6	3553.9	3495.6	3314.7	3317.6	3311.8	3349.7	3235.9
50°	3781.5	3758.2	3839.9	3877.8	3959.5	3959.5	3699.8	3667.7	3691.1	3802.0	3656.1
52.5°	3933.3	3918.7	4012.0	4160.8	4403.0	4426.4	4157.9	4090.8	4122.9	4280.5	4222.1
55°	4055.8	4041.2	4149.2	4408.9	4796.9	4939.9	4686.1	4656.9	4592.7	4761.9	4779.4
57.5°	4128.8	4096.7	4260.1	4607.3	5117.9	5447.6	5304.6	5295.9	5147.1	5304.6	5383.4
60°	4017.9	3997.4	4222.1	4689.0	5377.6	5926.1	6031.2	6031.2	5765.7	5850.3	5946.6
62.5°	3659.0	3632.7	3869.1	4499.3	5409.7	6317.1	6751.9	6716.9	6360.9	6358.0	6273.4
65°	2976.2	2944.1	3209.6	3874.9	5004.1	6363.8	7239.2	7218.7	6807.3	6690.6	6293.8
67°	2162.1	2141.7	2369.3	3028.7	4216.3	5958.2	7300.4	7318.0	6985.3	6737.3	5999.1
67.5°	1940.4	1937.4	2127.1	2780.7	3985.8	5809.4	7259.6	7277.1	6982.4	6699.4	5882.4
70°	904.5	945.4	1123.4	1593.1	2687.3	4575.2	6588.5	6655.6	6608.9	6261.7	4954.5
72.5°	420.2	437.7	516.5	770.3	1444.3	2949.9	5339.7	5500.1	5704.4	5371.8	3924.5
75°	259.7	265.5	309.3	399.7	679.9	1418.1	3802.0	3977.0	4286.3	4041.2	2509.3
77.5°	204.2	207.2	236.3	285.9	396.8	609.8	2086.3	2305.1	2707.8	2389.7	1263.4
80°	151.7	157.6	180.9	221.8	280.1	312.2	887.0	968.7	1307.2	1000.8	525.2
82.5°	110.9	116.7	140.1	160.5	195.5	198.4	361.8	382.2	560.2	405.6	227.6
85°	93.4	93.4	108.0	119.6	131.3	110.9	178.0	175.1	215.9	183.8	90.5
87.5°	43.8	46.7	102.1	75.9	64.2	46.7	52.5	55.4	67.1	72.9	35.0
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°	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5
2.5°	1327.6	1327.6	1327.6	1330.5	1333.5	1333.5	1336.4	1336.4	1339.3	1342.2	1348.0
5°	1339.3	1339.3	1336.4	1339.3	1345.1	1348.0	1353.9	1359.7	1365.6	1371.4	1374.3
7.5°	1362.6	1359.7	1359.7	1359.7	1365.6	1371.4	1380.1	1386.0	1394.7	1397.6	1403.5
10°	1406.4	1400.6	1400.6	1403.5	1406.4	1397.6	1394.7	1391.8	1400.6	1406.4	1412.2
12.5°	1458.9	1453.1	1450.2	1441.4	1429.7	1412.2	1397.6	1386.0	1388.9	1394.7	1403.5
15°	1514.4	1502.7	1496.9	1476.4	1447.3	1409.3	1386.0	1371.4	1371.4	1371.4	1380.1
17.5°	1572.7	1561.0	1537.7	1499.8	1444.3	1391.8	1362.6	1336.4	1324.7	1321.8	1327.6
20°	1628.2	1610.7	1572.7	1514.4	1426.8	1356.8	1318.9	1275.1	1257.6	1245.9	1251.8
22.5°	1680.7	1657.3	1604.8	1514.4	1397.6	1304.3	1237.2	1178.8	1149.6	1143.8	1146.7
25°	1736.1	1706.9	1636.9	1496.9	1333.5	1225.5	1132.1	1070.8	1032.9	1027.1	1035.8
27.5°	1791.6	1747.8	1663.2	1450.2	1260.5	1117.5	1018.3	960.0	939.5	927.9	930.8
30°	1838.2	1797.4	1689.4	1386.0	1161.3	992.1	901.6	875.4	860.8	854.9	854.9
32.5°	1899.5	1861.6	1706.9	1310.1	1044.6	878.3	819.9	799.5	787.8	773.2	776.1
35°	1975.4	1940.4	1698.2	1213.8	933.7	802.4	755.7	726.5	700.3	679.9	676.9
37.5°	2077.5	2051.2	1654.4	1097.1	831.6	747.0	700.3	662.4	624.4	592.3	586.5
40°	2246.7	2185.5	1590.2	968.7	761.6	703.2	647.8	601.1	554.4	519.4	510.6
42.5°	2462.7	2334.3	1502.7	837.4	703.2	656.5	601.1	539.8	496.0	463.9	463.9
45°	2713.6	2494.8	1397.6	738.2	641.9	609.8	542.7	490.2	463.9	443.5	440.6
47.5°	3011.2	2655.2	1263.4	659.4	592.3	569.0	501.9	469.8	452.3	434.8	431.8
50°	3411.0	2871.2	1164.2	592.3	542.7	522.3	490.2	463.9	446.4	434.8	431.8
52.5°	3869.1	3148.4	1094.2	539.8	501.9	493.1	487.3	466.9	449.3	440.6	437.7
55°	4365.1	3489.7	1027.1	496.0	469.8	481.4	493.1	472.7	461.0	449.3	443.5
57.5°	4832.0	3778.6	919.1	458.1	446.4	466.9	490.2	475.6	461.0	452.3	449.3
60°	5150.0	3924.5	770.3	423.1	423.1	446.4	481.4	461.0	446.4	449.3	449.3
62.5°	5252.1	3869.1	609.8	391.0	399.7	423.1	455.2	443.5	437.7	452.3	452.3
65°	5100.4	3644.4	487.3	364.7	376.4	393.9	440.6	452.3	469.8	501.9	504.8
67°	4703.6	3282.6	411.4	344.3	356.0	385.2	458.1	499.0	499.0	534.0	534.0
67.5°	4586.9	3160.0	399.7	338.5	353.1	385.2	466.9	510.6	499.0	539.8	539.8
70°	3729.0	2486.0	338.5	321.0	341.4	405.6	504.8	513.5	487.3	525.2	522.3
72.5°	2766.1	1797.4	309.3	303.5	318.0	382.2	501.9	493.1	455.2	466.9	458.1
75°	1709.9	1041.7	285.9	280.1	288.9	338.5	463.9	449.3	405.6	396.8	388.1
77.5°	825.8	528.1	245.1	253.9	262.6	294.7	408.5	393.9	356.0	335.6	332.6
80°	358.9	271.4	210.1	224.7	227.6	250.9	338.5	321.0	285.9	253.9	253.9
82.5°	178.0	151.7	166.3	186.7	180.9	201.3	265.5	236.3	210.1	175.1	169.2
85°	81.7	87.5	122.5	140.1	122.5	125.5	180.9	166.3	131.3	99.2	102.1
87.5°	29.2	40.8	70.0	84.6	61.3	58.4	96.3	70.0	40.8	11.7	14.6
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)