

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: P573439

Luminaire Tested: **ARCH-S-PA2-70-830-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-70-830-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8404 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

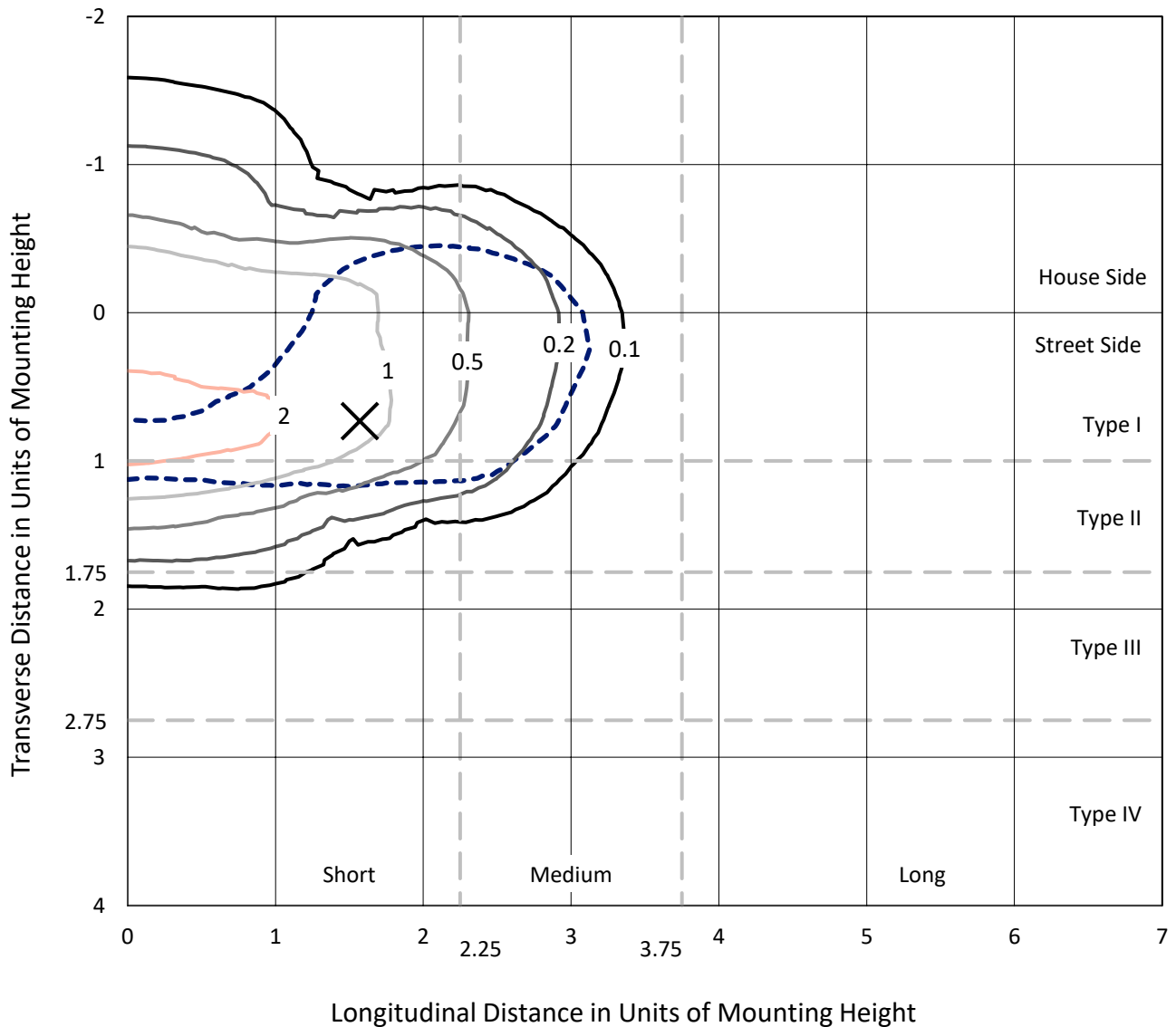
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

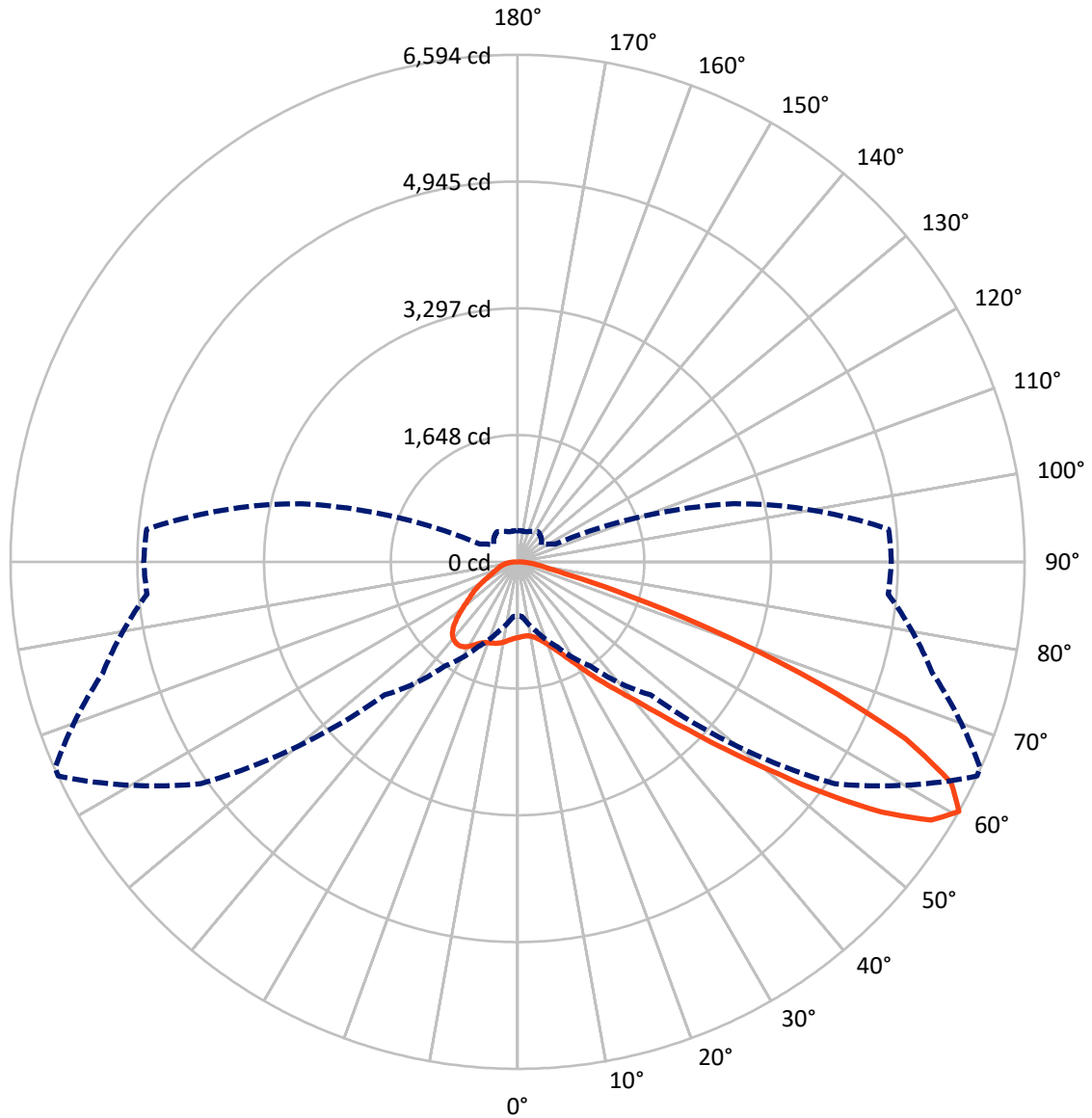
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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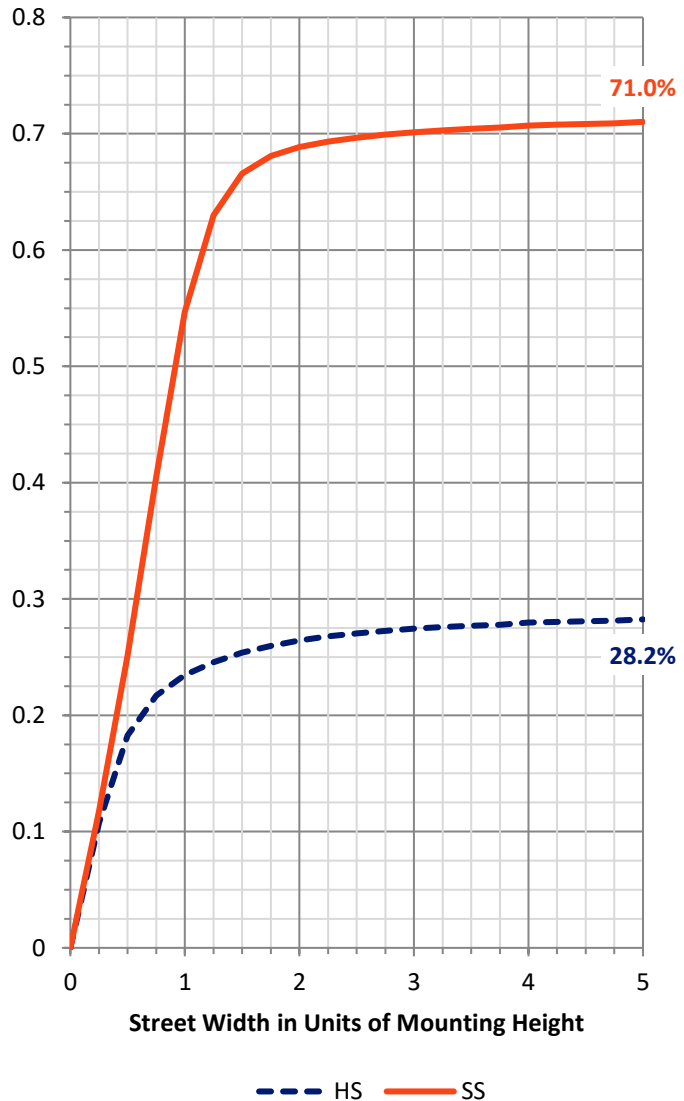
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2405.8	0.0	2405.8
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	5998.2	0.0	5998.2
	% Fixture	71.4	0.0	71.4
Total	Lumens	8404.0	0.0	8404.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	1.1
10°-20°	306.6	3.6
20°-30°	587.8	7.0
30°-40°	1020.8	12.1
40°-50°	1731.3	20.6
50°-60°	2155.8	25.7
60°-70°	1737.2	20.7
70°-80°	657.8	7.8
80°-90°	111.6	1.3
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°	8404.0	100.0
0°-180°	8404.0	100.0

Coefficient of Utilization

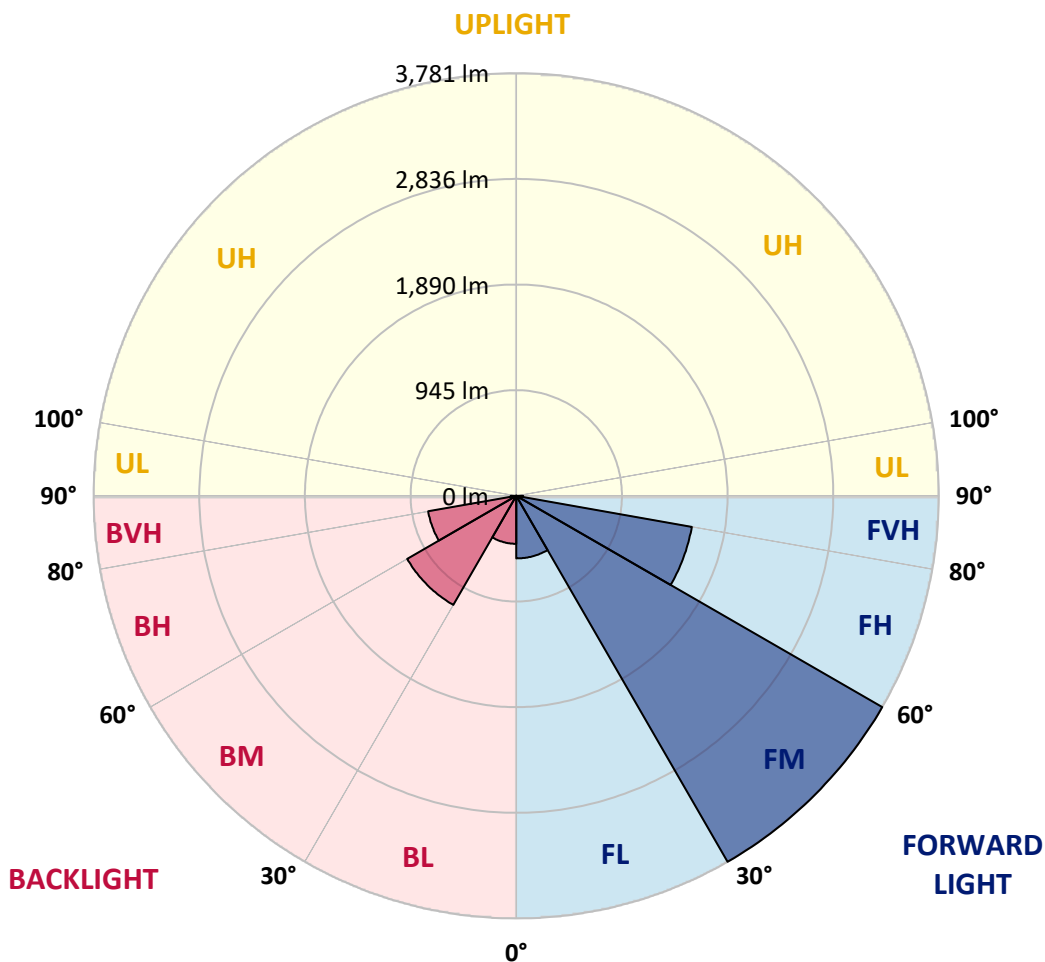


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	560.3	6.7			
FM (30°-60°)	3781.0	45.0			
FH (60°-80°)	1595.0	19.0			G1/1800
FVH (80°-90°)	61.9	0.7			G1/100
BL (0°-30°)	429.4	5.1	B1/500		
BM (30°-60°)	1126.8	13.4	B2/2500		
BH (60°-80°)	799.9	9.5	B2/1000		G2/1000
BVH (80°-90°)	49.7	0.6			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	986.0	986.0	986.0	986.0	986.0	986.0	986.0	986.0	986.0	986.0	986.0
2.5°	963.0	963.0	963.0	965.3	967.6	969.9	974.5	974.5	974.5	976.8	981.4
5°	944.6	942.3	944.6	946.9	951.5	956.1	965.3	969.9	969.9	979.1	988.3
7.5°	946.9	942.3	942.3	944.6	949.2	953.8	963.0	969.9	972.2	983.7	999.9
10°	969.9	963.0	963.0	965.3	965.3	969.9	976.8	986.0	988.3	999.9	1016.0
12.5°	1018.3	1011.4	1009.1	1002.2	995.3	999.9	1006.8	1009.1	1011.4	1018.3	1034.4
15°	1119.7	1108.1	1089.7	1075.9	1057.5	1045.9	1043.6	1045.9	1045.9	1048.2	1057.5
17.5°	1264.8	1251.0	1223.3	1193.4	1149.6	1112.8	1101.2	1092.0	1092.0	1085.1	1085.1
20°	1442.2	1421.5	1389.2	1345.4	1280.9	1214.1	1175.0	1154.2	1147.3	1135.8	1119.7
22.5°	1647.2	1633.4	1592.0	1525.1	1428.4	1338.5	1274.0	1227.9	1227.9	1200.3	1165.7
25°	1889.1	1863.8	1815.4	1737.1	1605.8	1476.8	1389.2	1322.4	1315.5	1271.7	1216.4
27.5°	2124.1	2108.0	2048.1	1944.4	1787.8	1638.0	1515.9	1437.6	1426.1	1357.0	1271.7
30°	2409.8	2391.4	2301.5	2156.4	1988.2	1817.7	1674.9	1573.5	1562.0	1467.5	1347.7
32.5°	2764.6	2702.4	2591.8	2425.9	2209.4	2018.2	1854.6	1746.3	1732.5	1624.2	1481.4
35°	3195.4	3142.4	2951.2	2776.1	2518.1	2267.0	2071.1	1928.3	1909.9	1780.9	1601.2
37.5°	3499.5	3474.2	3342.9	3204.6	2909.7	2571.1	2331.5	2133.4	2114.9	1944.4	1711.8
40°	3690.7	3665.4	3628.5	3589.4	3425.8	3043.4	2644.8	2375.3	2345.3	2184.0	1932.9
42.5°	3789.8	3769.1	3776.0	3854.3	3900.4	3840.5	3091.7	2697.8	2677.1	2481.2	2202.5
45°	3732.2	3718.4	3785.2	3992.5	4218.3	4660.7	3665.4	3121.7	3066.4	2833.7	2529.6
47.5°	3455.8	3414.3	3570.9	3923.4	4407.2	5052.3	4356.6	3644.7	3584.8	3250.7	2861.4
50°	2886.7	2875.2	3089.4	3536.4	4333.5	5206.7	5096.1	4262.1	4218.3	3700.0	3230.0
52.5°	2356.8	2352.2	2518.1	2928.2	3863.5	5098.4	5632.9	4997.0	4865.7	4151.5	3630.8
55°	1829.2	1826.9	1974.4	2280.8	3082.5	4589.2	5886.3	5745.8	5649.0	4644.5	4043.2
57.5°	1251.0	1234.9	1426.1	1658.8	2315.4	3635.5	5720.4	6337.9	6278.0	5167.5	4481.0
60°	695.8	718.8	930.7	1218.7	1656.5	2449.0	5029.3	6593.6	6584.4	5584.5	4838.1
62.5°	493.0	502.2	592.1	866.2	1089.7	1403.0	3879.7	6328.6	6402.4	5814.9	5040.8
65°	410.1	414.7	458.5	640.5	797.1	811.0	2419.0	5543.0	5639.8	5743.5	5084.6
67.5°	387.0	389.3	412.4	472.3	624.3	587.5	1080.5	4232.1	4437.2	5167.5	4798.9
70°	352.5	354.8	389.3	417.0	504.5	463.1	555.2	2810.7	3087.1	4084.7	4137.7
72.5°	301.8	308.7	336.4	391.7	410.1	384.7	428.5	1502.1	1776.3	2732.3	3195.4
75°	260.3	264.9	285.7	331.8	384.7	306.4	364.0	684.2	801.7	1603.5	2022.8
77.5°	209.6	212.0	241.9	271.9	322.5	248.8	283.4	410.1	430.8	783.3	914.6
80°	159.0	159.0	179.7	216.6	239.6	239.6	207.3	285.7	297.2	373.2	361.7
82.5°	122.1	119.8	135.9	152.1	172.8	200.4	156.7	188.9	193.5	225.8	193.5
85°	80.6	80.6	89.8	103.7	115.2	110.6	122.1	110.6	115.2	140.5	106.0
87.5°	34.6	34.6	48.4	46.1	50.7	53.0	59.9	53.0	53.0	64.5	48.4
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°	986.0	986.0	986.0	986.0	986.0	986.0	986.0	986.0	986.0	986.0	986.0
2.5°	983.7	986.0	990.6	993.0	999.9	1002.2	1002.2	1006.8	1006.8	1011.4	1011.4
5°	990.6	997.6	1004.5	1011.4	1018.3	1020.6	1025.2	1027.5	1027.5	1032.1	1029.8
7.5°	1004.5	1011.4	1025.2	1032.1	1041.3	1045.9	1043.6	1045.9	1043.6	1045.9	1045.9
10°	1022.9	1032.1	1048.2	1057.5	1064.4	1066.7	1059.8	1052.9	1043.6	1043.6	1043.6
12.5°	1043.6	1050.5	1071.3	1078.2	1082.8	1075.9	1057.5	1043.6	1036.7	1039.0	1036.7
15°	1064.4	1071.3	1087.4	1094.3	1094.3	1073.6	1057.5	1052.9	1050.5	1052.9	1052.9
17.5°	1085.1	1092.0	1105.8	1105.8	1098.9	1082.8	1066.7	1050.5	1039.0	1032.1	1032.1
20°	1112.8	1112.8	1117.4	1117.4	1115.1	1089.7	1050.5	1011.4	988.3	974.5	972.2
22.5°	1149.6	1140.4	1131.2	1131.2	1140.4	1073.6	997.6	937.7	900.8	896.2	887.0
25°	1188.8	1168.0	1145.0	1161.1	1145.0	1032.1	923.8	843.2	799.4	783.3	787.9
27.5°	1230.2	1198.0	1163.4	1209.5	1122.0	951.5	820.2	730.3	688.8	677.3	677.3
30°	1287.8	1239.5	1188.8	1260.2	1078.2	859.3	698.1	633.6	610.5	601.3	599.0
32.5°	1398.4	1324.7	1251.0	1306.3	1029.8	739.5	615.1	576.0	548.3	539.1	546.0
35°	1497.5	1393.8	1345.4	1327.0	953.8	642.8	564.4	529.9	506.8	495.3	495.3
37.5°	1587.3	1488.3	1451.4	1327.0	854.7	582.9	532.2	504.5	474.6	465.4	465.4
40°	1783.2	1651.9	1587.3	1308.6	732.6	552.9	516.1	483.8	458.5	449.2	446.9
42.5°	2052.7	1875.3	1727.9	1267.1	628.9	539.1	506.8	470.0	449.2	442.3	440.0
45°	2338.4	2181.7	1861.5	1193.4	562.1	525.3	504.5	465.4	440.0	433.1	430.8
47.5°	2684.0	2522.7	2015.9	1080.5	516.1	516.1	502.2	458.5	435.4	428.5	428.5
50°	3066.4	2932.8	2211.7	951.5	481.5	509.1	497.6	458.5	433.1	426.2	423.9
52.5°	3458.1	3395.9	2416.7	824.8	446.9	499.9	495.3	458.5	428.5	421.6	421.6
55°	3955.7	3905.0	2654.0	730.3	419.3	481.5	495.3	453.9	421.6	417.0	417.0
57.5°	4444.1	4425.7	2838.3	647.4	398.6	458.5	488.4	446.9	414.7	412.4	412.4
60°	4861.1	4842.7	2916.7	543.7	377.8	435.4	474.6	435.4	403.2	405.5	405.5
62.5°	5119.1	5013.1	2859.1	449.2	357.1	414.7	458.5	421.6	391.7	398.6	396.3
65°	5165.2	4918.7	2635.6	375.5	334.1	391.7	440.0	405.5	375.5	391.7	389.3
67.5°	4826.5	4416.5	2216.3	327.1	311.0	366.3	419.3	382.4	357.1	380.1	373.2
70°	4093.9	3587.1	1640.3	290.3	288.0	336.4	391.7	354.8	331.8	343.3	334.1
72.5°	3048.0	2589.5	1062.1	262.6	262.6	301.8	352.5	320.2	297.2	299.5	290.3
75°	1900.7	1592.0	603.6	237.3	237.3	267.2	313.3	281.1	264.9	255.7	267.2
77.5°	863.9	700.4	317.9	212.0	214.3	228.1	269.5	239.6	221.2	207.3	214.3
80°	320.2	285.7	207.3	182.0	186.6	188.9	216.6	191.2	175.1	165.9	161.3
82.5°	165.9	154.4	140.5	145.1	152.1	145.1	168.2	142.8	124.4	117.5	99.1
85°	82.9	80.6	85.2	96.8	106.0	89.8	101.4	92.2	76.0	55.3	55.3
87.5°	32.3	34.6	32.3	43.8	48.4	41.5	46.1	32.3	23.0	11.5	9.2
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)