

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: P573349

Luminaire Tested: **ARCH-S-PA2-60-827-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573349
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-PA2-60-827-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6870 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

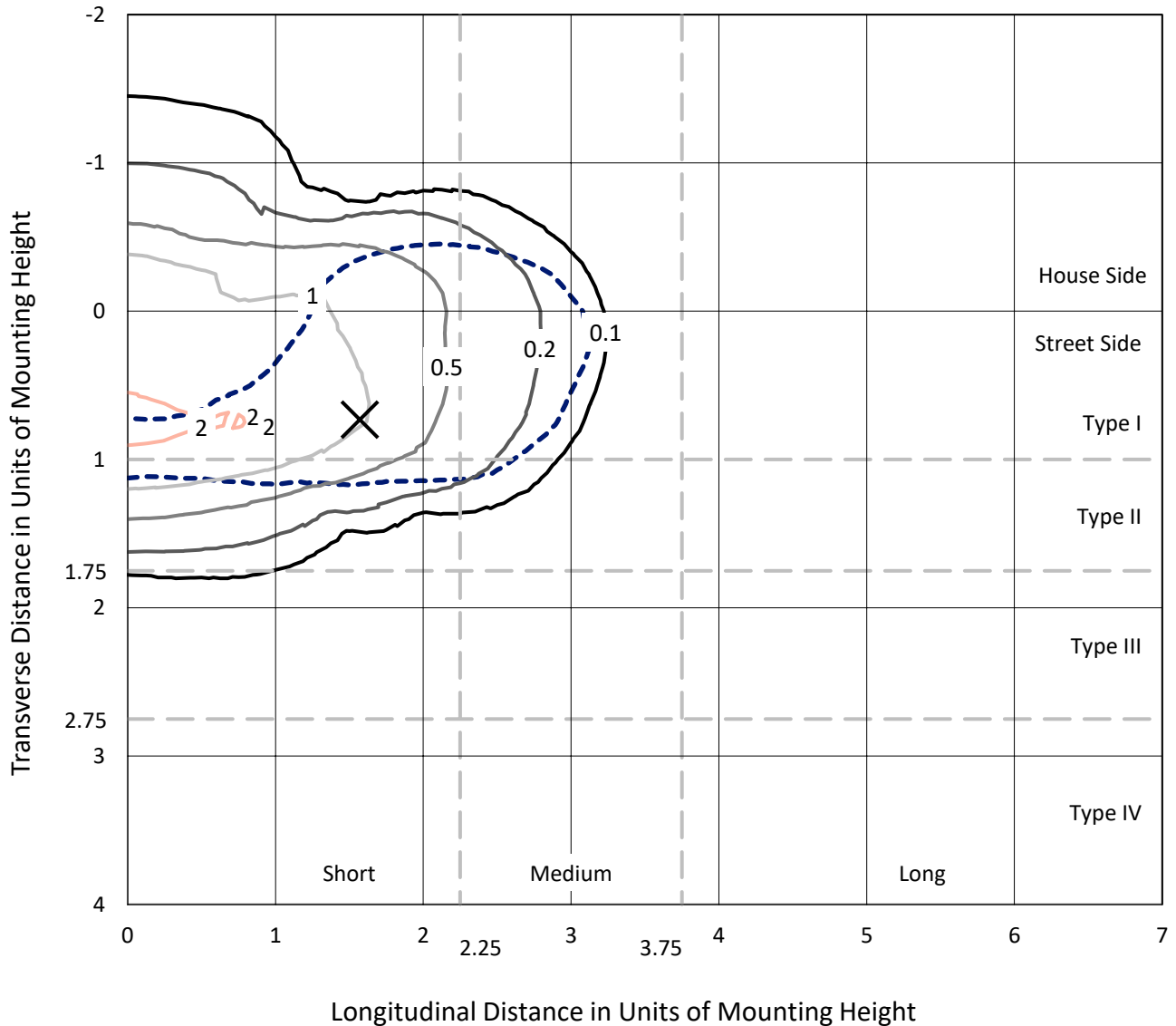
Input Watts (W): 63.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

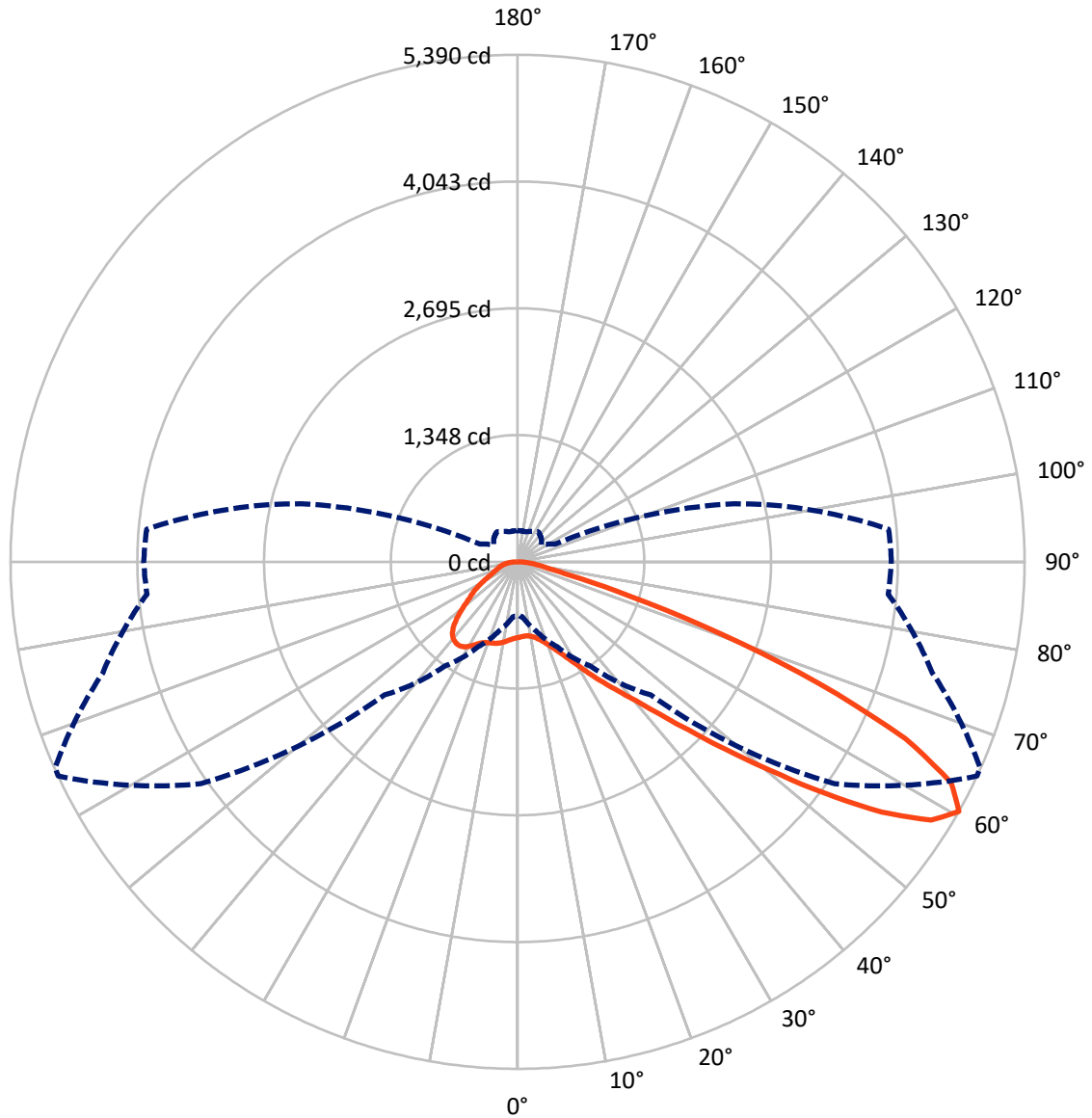
✕ Max cd
 - - - 1/2 Max cd



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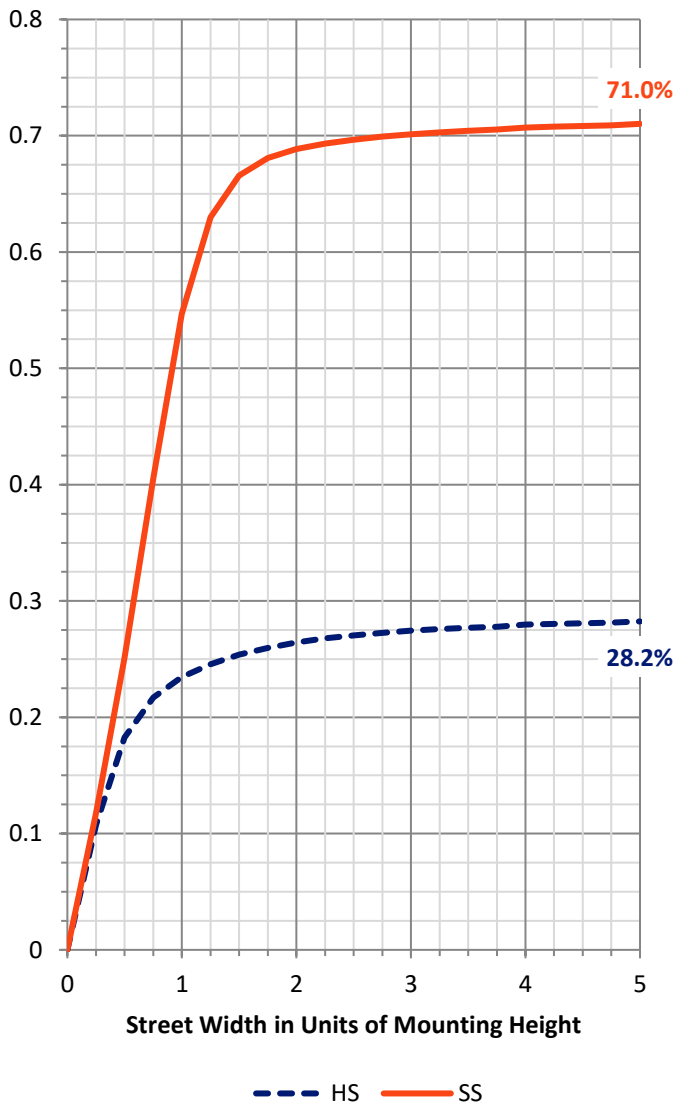
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1966.7	0.0	1966.7
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	4903.3	0.0	4903.3
	% Fixture	71.4	0.0	71.4
Total	Lumens	6870.0	0.0	6870.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	1.1
10°-20°	250.6	3.6
20°-30°	480.5	7.0
30°-40°	834.5	12.1
40°-50°	1415.2	20.6
50°-60°	1762.3	25.7
60°-70°	1420.1	20.7
70°-80°	537.7	7.8
80°-90°	91.2	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°	6870.0	100.0
0°-180°	6870.0	100.0

Coefficient of Utilization

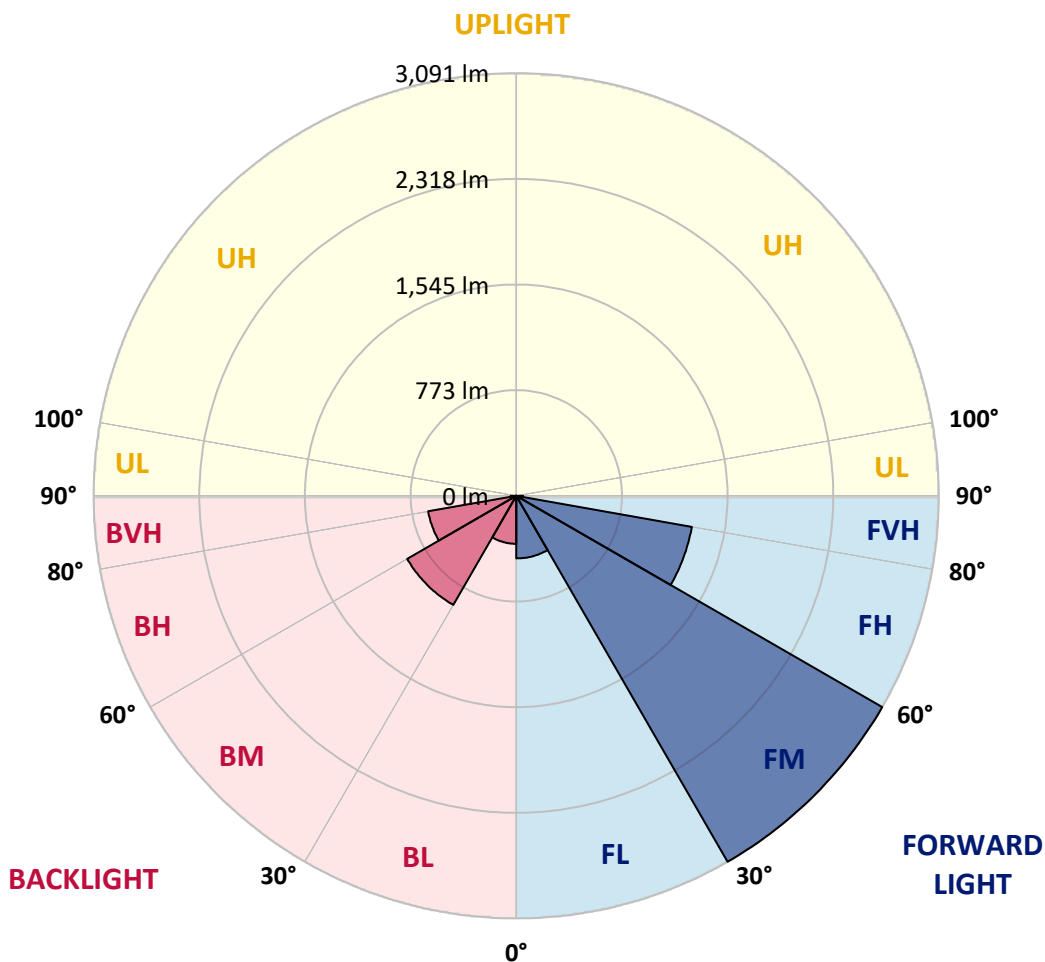


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	458.0	6.7			
FM (30°-60°)	3090.8	45.0			
FH (60°-80°)	1303.9	19.0			G1/1800
FVH (80°-90°)	50.6	0.7			G1/100
BL (0°-30°)	351.0	5.1	B1/500		
BM (30°-60°)	921.2	13.4	B1/1000		
BH (60°-80°)	653.9	9.5	B2/1000		G2/1000
BVH (80°-90°)	40.6	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°	806.1	806.1	806.1	806.1	806.1	806.1	806.1	806.1	806.1	806.1	806.1
2.5°	787.2	787.2	787.2	789.1	791.0	792.9	796.6	796.6	796.6	798.5	802.3
5°	772.2	770.3	772.2	774.0	777.8	781.6	789.1	792.9	792.9	800.4	807.9
7.5°	774.0	770.3	770.3	772.2	775.9	779.7	787.2	792.9	794.8	804.2	817.4
10°	792.9	787.2	787.2	789.1	789.1	792.9	798.5	806.1	807.9	817.4	830.5
12.5°	832.4	826.8	824.9	819.2	813.6	817.4	823.0	824.9	826.8	832.4	845.6
15°	915.3	905.9	890.8	879.5	864.4	855.0	853.1	855.0	855.0	856.9	864.4
17.5°	1033.9	1022.6	1000.0	975.6	939.8	909.6	900.2	892.7	892.7	887.0	887.0
20°	1179.0	1162.0	1135.6	1099.9	1047.1	992.5	960.5	943.5	937.9	928.5	915.3
22.5°	1346.6	1335.3	1301.4	1246.8	1167.7	1094.2	1041.5	1003.8	1003.8	981.2	953.0
25°	1544.3	1523.6	1484.0	1420.0	1312.7	1207.2	1135.6	1081.0	1075.4	1039.6	994.4
27.5°	1736.4	1723.2	1674.3	1589.5	1461.5	1339.0	1239.2	1175.2	1165.8	1109.3	1039.6
30°	1969.9	1954.9	1881.4	1762.8	1625.3	1485.9	1369.2	1286.3	1276.9	1199.7	1101.7
32.5°	2260.0	2209.1	2118.7	1983.1	1806.1	1649.8	1516.1	1427.6	1416.3	1327.7	1211.0
35°	2612.2	2568.8	2412.5	2269.4	2058.5	1853.2	1693.1	1576.3	1561.3	1455.8	1308.9
37.5°	2860.8	2840.0	2732.7	2619.7	2378.6	2101.8	1905.9	1743.9	1728.9	1589.5	1399.3
40°	3017.1	2996.3	2966.2	2934.2	2800.5	2487.9	2162.0	1941.7	1917.2	1785.4	1580.1
42.5°	3098.0	3081.1	3086.7	3150.8	3188.4	3139.5	2527.4	2205.4	2188.4	2028.3	1800.4
45°	3051.0	3039.7	3094.3	3263.8	3448.3	3809.9	2996.3	2551.9	2506.7	2316.5	2067.9
47.5°	2825.0	2791.1	2919.1	3207.3	3602.8	4130.1	3561.3	2979.4	2930.4	2657.4	2339.1
50°	2359.8	2350.4	2525.5	2890.9	3542.5	4256.3	4165.9	3484.1	3448.3	3024.6	2640.4
52.5°	1926.6	1922.9	2058.5	2393.7	3158.3	4167.8	4604.7	4084.9	3977.6	3393.7	2968.1
55°	1495.3	1493.5	1614.0	1864.5	2519.9	3751.6	4811.9	4697.0	4617.9	3796.8	3305.2
57.5°	1022.6	1009.5	1165.8	1356.0	1892.7	2971.9	4676.3	5181.0	5132.0	4224.3	3663.0
60°	568.8	587.6	760.9	996.3	1354.1	2002.0	4111.3	5390.0	5382.5	4565.1	3955.0
62.5°	403.0	410.6	484.0	708.1	890.8	1146.9	3171.5	5173.5	5233.7	4753.5	4120.7
65°	335.2	339.0	374.8	523.6	651.6	662.9	1977.5	4531.2	4610.3	4695.1	4156.5
67.5°	316.4	318.3	337.1	386.1	510.4	480.2	883.3	3459.6	3627.3	4224.3	3922.9
70°	288.1	290.0	318.3	340.9	412.4	378.5	453.9	2297.6	2523.6	3339.1	3382.4
72.5°	246.7	252.4	275.0	320.2	335.2	314.5	350.3	1227.9	1452.0	2233.6	2612.2
75°	212.8	216.6	233.5	271.2	314.5	250.5	297.6	559.3	655.4	1310.8	1653.5
77.5°	171.4	173.3	197.7	222.2	263.7	203.4	231.6	335.2	352.2	640.3	747.7
80°	129.9	129.9	146.9	177.0	195.9	195.9	169.5	233.5	242.9	305.1	295.7
82.5°	99.8	97.9	111.1	124.3	141.2	163.8	128.1	154.4	158.2	184.6	158.2
85°	65.9	65.9	73.4	84.7	94.2	90.4	99.8	90.4	94.2	114.9	86.6
87.5°	28.2	28.2	39.5	37.7	41.4	43.3	49.0	43.3	43.3	52.7	39.5
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°	806.1	806.1	806.1	806.1	806.1	806.1	806.1	806.1	806.1	806.1	806.1
2.5°	804.2	806.1	809.8	811.7	817.4	819.2	819.2	823.0	823.0	826.8	826.8
5°	809.8	815.5	821.1	826.8	832.4	834.3	838.1	840.0	840.0	843.7	841.8
7.5°	821.1	826.8	838.1	843.7	851.3	855.0	853.1	855.0	853.1	855.0	855.0
10°	836.2	843.7	856.9	864.4	870.1	872.0	866.3	860.7	853.1	853.1	853.1
12.5°	853.1	858.8	875.7	881.4	885.2	879.5	864.4	853.1	847.5	849.4	847.5
15°	870.1	875.7	888.9	894.6	894.6	877.6	864.4	860.7	858.8	860.7	860.7
17.5°	887.0	892.7	904.0	904.0	898.3	885.2	872.0	858.8	849.4	843.7	843.7
20°	909.6	909.6	913.4	913.4	911.5	890.8	858.8	826.8	807.9	796.6	794.8
22.5°	939.8	932.2	924.7	924.7	932.2	877.6	815.5	766.5	736.4	732.6	725.1
25°	971.8	954.8	936.0	949.2	936.0	843.7	755.2	689.3	653.5	640.3	644.1
27.5°	1005.7	979.3	951.1	988.7	917.2	777.8	670.5	597.0	563.1	553.7	553.7
30°	1052.8	1013.2	971.8	1030.2	881.4	702.5	570.6	517.9	499.1	491.5	489.7
32.5°	1143.2	1082.9	1022.6	1067.8	841.8	604.5	502.8	470.8	448.2	440.7	446.3
35°	1224.2	1139.4	1099.9	1084.8	779.7	525.4	461.4	433.2	414.3	404.9	404.9
37.5°	1297.6	1216.6	1186.5	1084.8	698.7	476.5	435.0	412.4	388.0	380.4	380.4
40°	1457.7	1350.3	1297.6	1069.7	598.9	452.0	421.9	395.5	374.8	367.2	365.4
42.5°	1678.0	1533.0	1412.5	1035.8	514.1	440.7	414.3	384.2	367.2	361.6	359.7
45°	1911.6	1783.5	1521.7	975.6	459.5	429.4	412.4	380.4	359.7	354.1	352.2
47.5°	2194.1	2062.2	1647.9	883.3	421.9	421.9	410.6	374.8	355.9	350.3	350.3
50°	2506.7	2397.5	1808.0	777.8	393.6	416.2	406.8	374.8	354.1	348.4	346.5
52.5°	2826.9	2776.0	1975.6	674.2	365.4	408.7	404.9	374.8	350.3	344.6	344.6
55°	3233.6	3192.2	2169.6	597.0	342.8	393.6	404.9	371.0	344.6	340.9	340.9
57.5°	3632.9	3617.8	2320.2	529.2	325.8	374.8	399.3	365.4	339.0	337.1	337.1
60°	3973.8	3958.7	2384.3	444.5	308.9	355.9	388.0	355.9	329.6	331.5	331.5
62.5°	4184.7	4098.1	2337.2	367.2	291.9	339.0	374.8	344.6	320.2	325.8	323.9
65°	4222.4	4020.9	2154.5	307.0	273.1	320.2	359.7	331.5	307.0	320.2	318.3
67.5°	3945.5	3610.3	1811.7	267.4	254.2	299.4	342.8	312.6	291.9	310.7	305.1
70°	3346.6	2932.3	1340.9	237.3	235.4	275.0	320.2	290.0	271.2	280.6	273.1
72.5°	2491.6	2116.8	868.2	214.7	214.7	246.7	288.1	261.8	242.9	244.8	237.3
75°	1553.7	1301.4	493.4	194.0	194.0	218.5	256.1	229.8	216.6	209.0	218.5
77.5°	706.2	572.5	259.9	173.3	175.1	186.4	220.3	195.9	180.8	169.5	175.1
80°	261.8	233.5	169.5	148.8	152.5	154.4	177.0	156.3	143.1	135.6	131.8
82.5°	135.6	126.2	114.9	118.6	124.3	118.6	137.5	116.8	101.7	96.0	81.0
85°	67.8	65.9	69.7	79.1	86.6	73.4	82.9	75.3	62.1	45.2	45.2
87.5°	26.4	28.2	26.4	35.8	39.5	33.9	37.7	26.4	18.8	9.4	7.5
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)