

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: P573304

Luminaire Tested: **ARCH-S-PA2-60-730-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573304
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-PA2-60-730-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 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: 8512 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

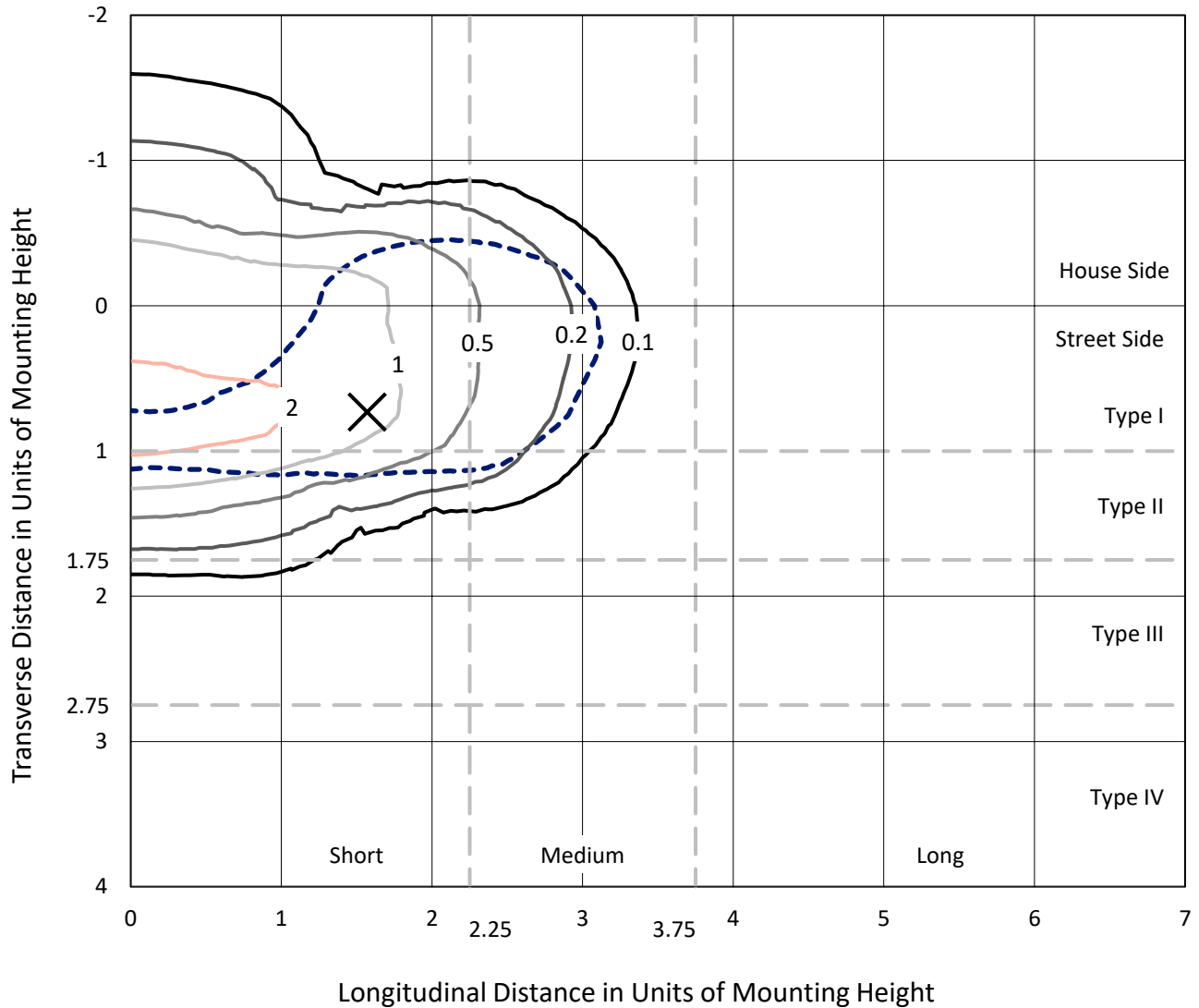
Input Watts (W): 63.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

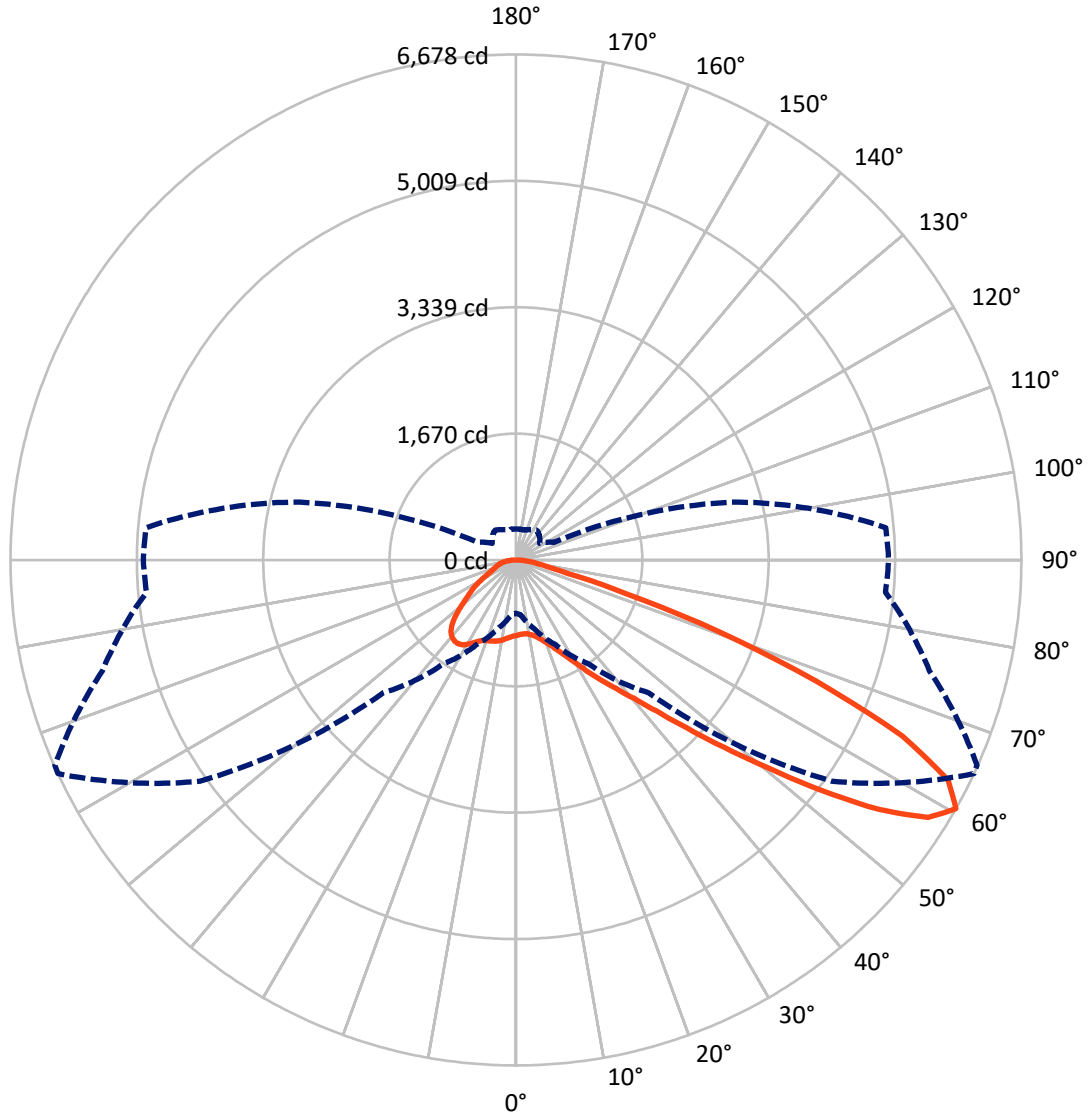
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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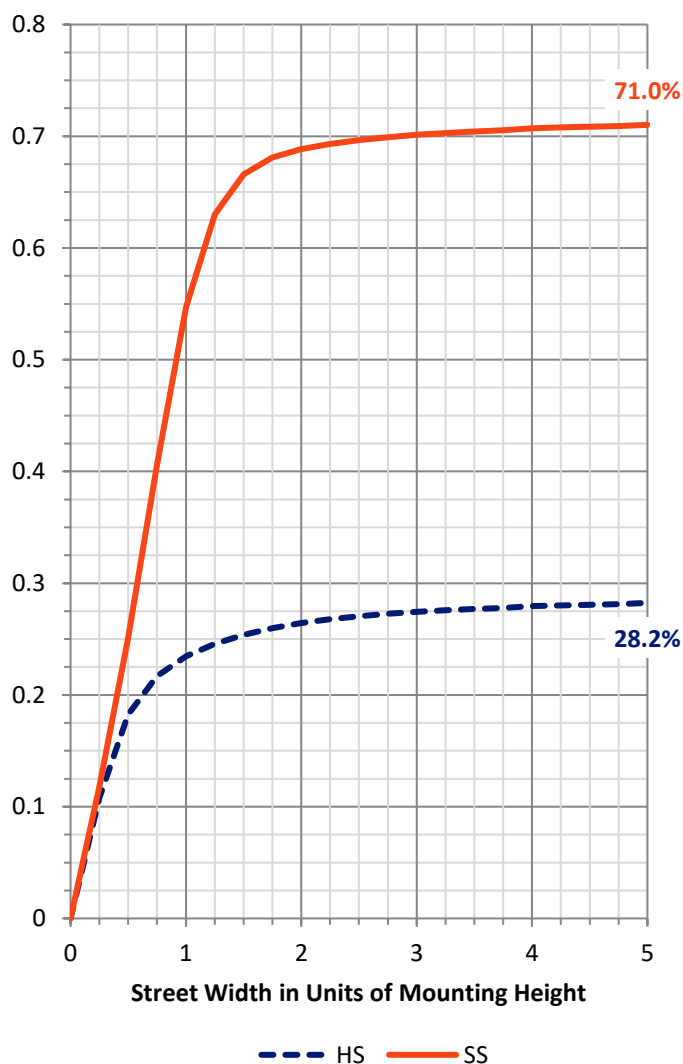
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2436.7	0.0	2436.7
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	6075.3	0.0	6075.3
	% Fixture	71.4	0.0	71.4
Total	Lumens	8512.0	0.0	8512.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	1.1
10°-20°	310.5	3.6
20°-30°	595.3	7.0
30°-40°	1033.9	12.1
40°-50°	1753.5	20.6
50°-60°	2183.5	25.7
60°-70°	1759.5	20.7
70°-80°	666.3	7.8
80°-90°	113.0	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°	8512.0	100.0
0°-180°	8512.0	100.0

Coefficient of Utilization



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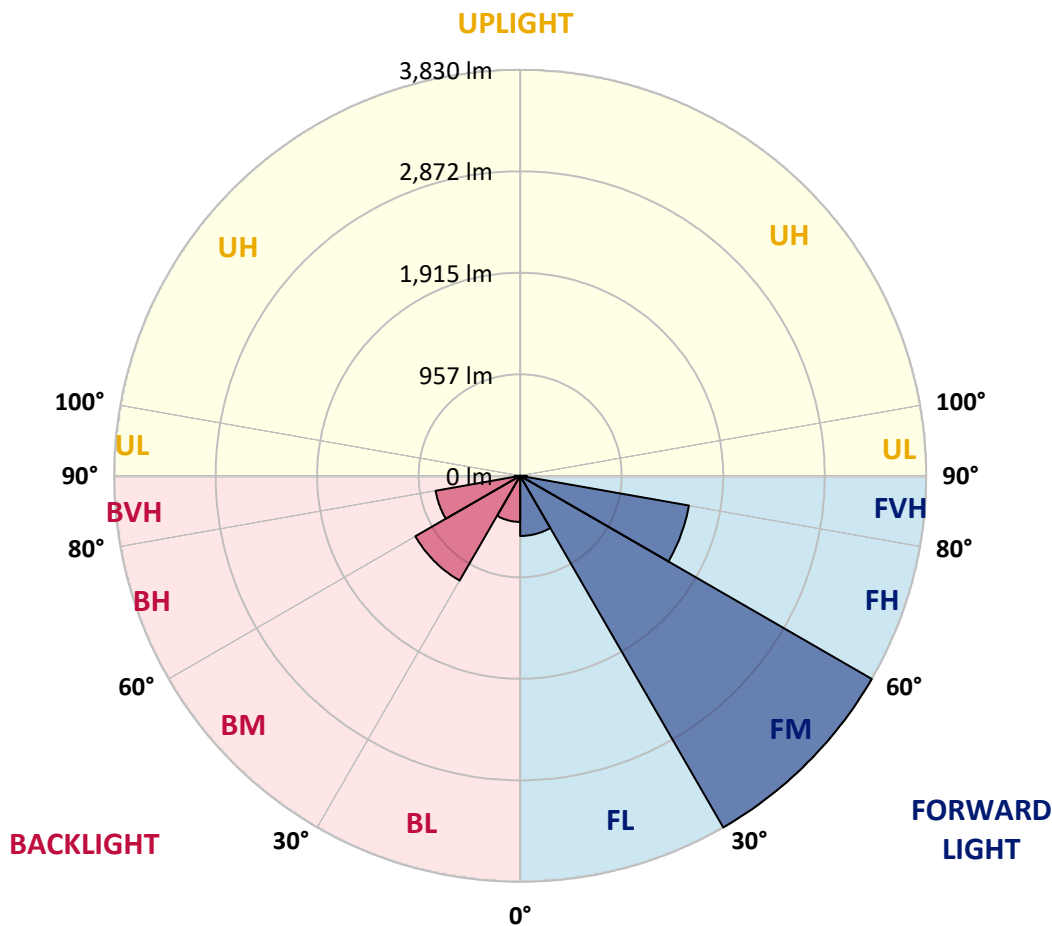
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	567.5	6.7			
FM (30°-60°)	3829.6	45.0			
FH (60°-80°)	1615.5	19.0			G1/1800
FVH (80°-90°)	62.7	0.7			G1/100
BL (0°-30°)	434.9	5.1	B1/500		
BM (30°-60°)	1141.3	13.4	B2/2500		
BH (60°-80°)	810.2	9.5	B2/1000		G2/1000
BVH (80°-90°)	50.3	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°	998.7	998.7	998.7	998.7	998.7	998.7	998.7	998.7	998.7	998.7	998.7
2.5°	975.4	975.4	975.4	977.7	980.0	982.4	987.0	987.0	987.0	989.4	994.0
5°	956.7	954.4	956.7	959.0	963.7	968.4	977.7	982.4	982.4	991.7	1001.0
7.5°	959.0	954.4	954.4	956.7	961.4	966.0	975.4	982.4	984.7	996.4	1012.7
10°	982.4	975.4	975.4	977.7	977.7	982.4	989.4	998.7	1001.0	1012.7	1029.0
12.5°	1031.4	1024.4	1022.0	1015.0	1008.0	1012.7	1019.7	1022.0	1024.4	1031.4	1047.7
15°	1134.1	1122.4	1103.7	1089.7	1071.1	1059.4	1057.0	1059.4	1059.4	1061.7	1071.1
17.5°	1281.1	1267.1	1239.1	1208.7	1164.4	1127.1	1115.4	1106.1	1106.1	1099.1	1099.1
20°	1460.7	1439.7	1407.1	1362.7	1297.4	1229.7	1190.1	1169.1	1162.1	1150.4	1134.1
22.5°	1668.4	1654.4	1612.4	1544.7	1446.7	1355.7	1290.4	1243.7	1243.7	1215.7	1180.7
25°	1913.4	1887.8	1838.8	1759.4	1626.4	1495.7	1407.1	1339.4	1332.4	1288.1	1232.1
27.5°	2151.4	2135.1	2074.4	1969.4	1810.8	1659.1	1535.4	1456.1	1444.4	1374.4	1288.1
30°	2440.8	2422.1	2331.1	2184.1	2013.8	1841.1	1696.4	1593.7	1582.1	1486.4	1365.1
32.5°	2800.1	2737.1	2625.1	2457.1	2237.8	2044.1	1878.4	1768.7	1754.7	1645.1	1500.4
35°	3236.5	3182.8	2989.1	2811.8	2550.5	2296.1	2097.8	1953.1	1934.4	1803.8	1621.7
37.5°	3544.5	3518.8	3385.8	3245.8	2947.1	2604.1	2361.4	2160.8	2142.1	1969.4	1733.7
40°	3738.2	3712.5	3675.2	3635.5	3469.8	3082.5	2678.8	2405.8	2375.4	2212.1	1957.8
42.5°	3838.5	3817.5	3824.5	3903.9	3950.5	3889.8	3131.5	2732.5	2711.5	2513.1	2230.8
45°	3780.2	3766.2	3833.8	4043.9	4272.5	4720.6	3712.5	3161.8	3105.8	2870.1	2562.1
47.5°	3500.2	3458.2	3616.8	3973.9	4463.9	5117.2	4412.5	3691.5	3630.8	3292.5	2898.1
50°	2923.8	2912.1	3129.1	3581.8	4389.2	5273.6	5161.6	4316.9	4272.5	3747.5	3271.5
52.5°	2387.1	2382.4	2550.5	2965.8	3913.2	5163.9	5705.3	5061.2	4928.2	4204.9	3677.5
55°	1852.8	1850.4	1999.8	2310.1	3122.1	4648.2	5961.9	5819.6	5721.6	4704.2	4095.2
57.5°	1267.1	1250.7	1444.4	1680.1	2345.1	3682.2	5793.9	6419.3	6358.6	5233.9	4538.5
60°	704.7	728.0	942.7	1234.4	1677.7	2480.4	5093.9	6678.3	6669.0	5656.3	4900.2
62.5°	499.4	508.7	599.7	877.4	1103.7	1421.1	3929.5	6410.0	6484.6	5889.6	5105.6
65°	415.4	420.0	464.4	648.7	807.4	821.4	2450.1	5614.3	5712.3	5817.3	5149.9
67.5°	392.0	394.4	417.7	478.4	632.4	595.0	1094.4	4286.5	4494.2	5233.9	4860.6
70°	357.0	359.4	394.4	422.4	511.0	469.0	562.4	2846.8	3126.8	4137.2	4190.9
72.5°	305.7	312.7	340.7	396.7	415.4	389.7	434.0	1521.4	1799.1	2767.5	3236.5
75°	263.7	268.3	289.3	336.0	389.7	310.3	368.7	693.0	812.0	1624.1	2048.8
77.5°	212.3	214.7	245.0	275.3	326.7	252.0	287.0	415.4	436.4	793.4	926.4
80°	161.0	161.0	182.0	219.3	242.7	242.7	210.0	289.3	301.0	378.0	366.4
82.5°	123.7	121.3	137.7	154.0	175.0	203.0	158.7	191.3	196.0	228.7	196.0
85°	81.7	81.7	91.0	105.0	116.7	112.0	123.7	112.0	116.7	142.3	107.3
87.5°	35.0	35.0	49.0	46.7	51.3	53.7	60.7	53.7	53.7	65.3	49.0
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°	998.7	998.7	998.7	998.7	998.7	998.7	998.7	998.7	998.7	998.7	998.7
2.5°	996.4	998.7	1003.4	1005.7	1012.7	1015.0	1015.0	1019.7	1019.7	1024.4	1024.4
5°	1003.4	1010.4	1017.4	1024.4	1031.4	1033.7	1038.4	1040.7	1040.7	1045.4	1043.0
7.5°	1017.4	1024.4	1038.4	1045.4	1054.7	1059.4	1057.0	1059.4	1057.0	1059.4	1059.4
10°	1036.0	1045.4	1061.7	1071.1	1078.1	1080.4	1073.4	1066.4	1057.0	1057.0	1057.0
12.5°	1057.0	1064.0	1085.1	1092.1	1096.7	1089.7	1071.1	1057.0	1050.0	1052.4	1050.0
15°	1078.1	1085.1	1101.4	1108.4	1108.4	1087.4	1071.1	1066.4	1064.0	1066.4	1066.4
17.5°	1099.1	1106.1	1120.1	1120.1	1113.1	1096.7	1080.4	1064.0	1052.4	1045.4	1045.4
20°	1127.1	1127.1	1131.7	1131.7	1129.4	1103.7	1064.0	1024.4	1001.0	987.0	984.7
22.5°	1164.4	1155.1	1145.7	1145.7	1155.1	1087.4	1010.4	949.7	912.4	907.7	898.4
25°	1204.1	1183.1	1159.7	1176.1	1159.7	1045.4	935.7	854.0	809.7	793.4	798.0
27.5°	1246.1	1213.4	1178.4	1225.1	1136.4	963.7	830.7	739.7	697.7	686.0	686.0
30°	1304.4	1255.4	1204.1	1276.4	1092.1	870.4	707.0	641.7	618.4	609.0	606.7
32.5°	1416.4	1341.7	1267.1	1323.1	1043.0	749.0	623.0	583.4	555.4	546.0	553.0
35°	1516.7	1411.7	1362.7	1344.1	966.0	651.0	571.7	536.7	513.4	501.7	501.7
37.5°	1607.7	1507.4	1470.1	1344.1	865.7	590.4	539.0	511.0	480.7	471.4	471.4
40°	1806.1	1673.1	1607.7	1325.4	742.0	560.0	522.7	490.0	464.4	455.0	452.7
42.5°	2079.1	1899.4	1750.1	1283.4	637.0	546.0	513.4	476.0	455.0	448.0	445.7
45°	2368.4	2209.8	1885.4	1208.7	569.4	532.0	511.0	471.4	445.7	438.7	436.4
47.5°	2718.5	2555.1	2041.8	1094.4	522.7	522.7	508.7	464.4	441.0	434.0	434.0
50°	3105.8	2970.5	2240.1	963.7	487.7	515.7	504.0	464.4	438.7	431.7	429.4
52.5°	3502.5	3439.5	2447.8	835.4	452.7	506.4	501.7	464.4	434.0	427.0	427.0
55°	4006.5	3955.2	2688.1	739.7	424.7	487.7	501.7	459.7	427.0	422.4	422.4
57.5°	4501.2	4482.5	2874.8	655.7	403.7	464.4	494.7	452.7	420.0	417.7	417.7
60°	4923.6	4904.9	2954.1	550.7	382.7	441.0	480.7	441.0	408.4	410.7	410.7
62.5°	5184.9	5077.6	2895.8	455.0	361.7	420.0	464.4	427.0	396.7	403.7	401.4
65°	5231.6	4981.9	2669.5	380.4	338.3	396.7	445.7	410.7	380.4	396.7	394.4
67.5°	4888.6	4473.2	2244.8	331.3	315.0	371.0	424.7	387.4	361.7	385.0	378.0
70°	4146.5	3633.2	1661.4	294.0	291.7	340.7	396.7	359.4	336.0	347.7	338.3
72.5°	3087.1	2622.8	1075.7	266.0	266.0	305.7	357.0	324.3	301.0	303.3	294.0
75°	1925.1	1612.4	611.4	240.3	240.3	270.7	317.3	284.7	268.3	259.0	270.7
77.5°	875.0	709.4	322.0	214.7	217.0	231.0	273.0	242.7	224.0	210.0	217.0
80°	324.3	289.3	210.0	184.3	189.0	191.3	219.3	193.7	177.3	168.0	163.3
82.5°	168.0	156.3	142.3	147.0	154.0	147.0	170.3	144.7	126.0	119.0	100.3
85°	84.0	81.7	86.3	98.0	107.3	91.0	102.7	93.3	77.0	56.0	56.0
87.5°	32.7	35.0	32.7	44.3	49.0	42.0	46.7	32.7	23.3	11.7	9.3
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)