

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: P573465

Luminaire Tested: **ARCH-S-PA2-80-730-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-16)
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-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 820mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7403 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

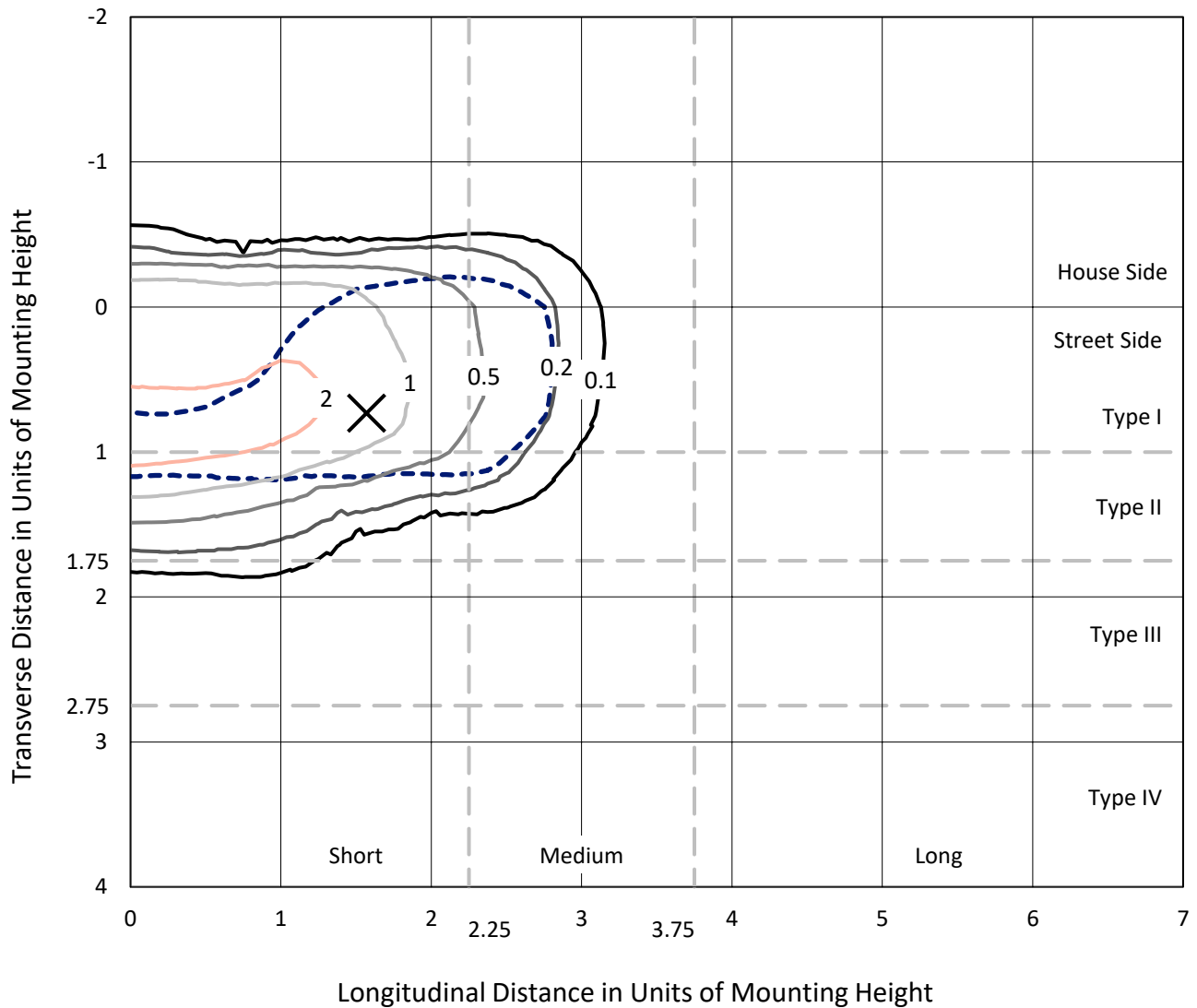
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

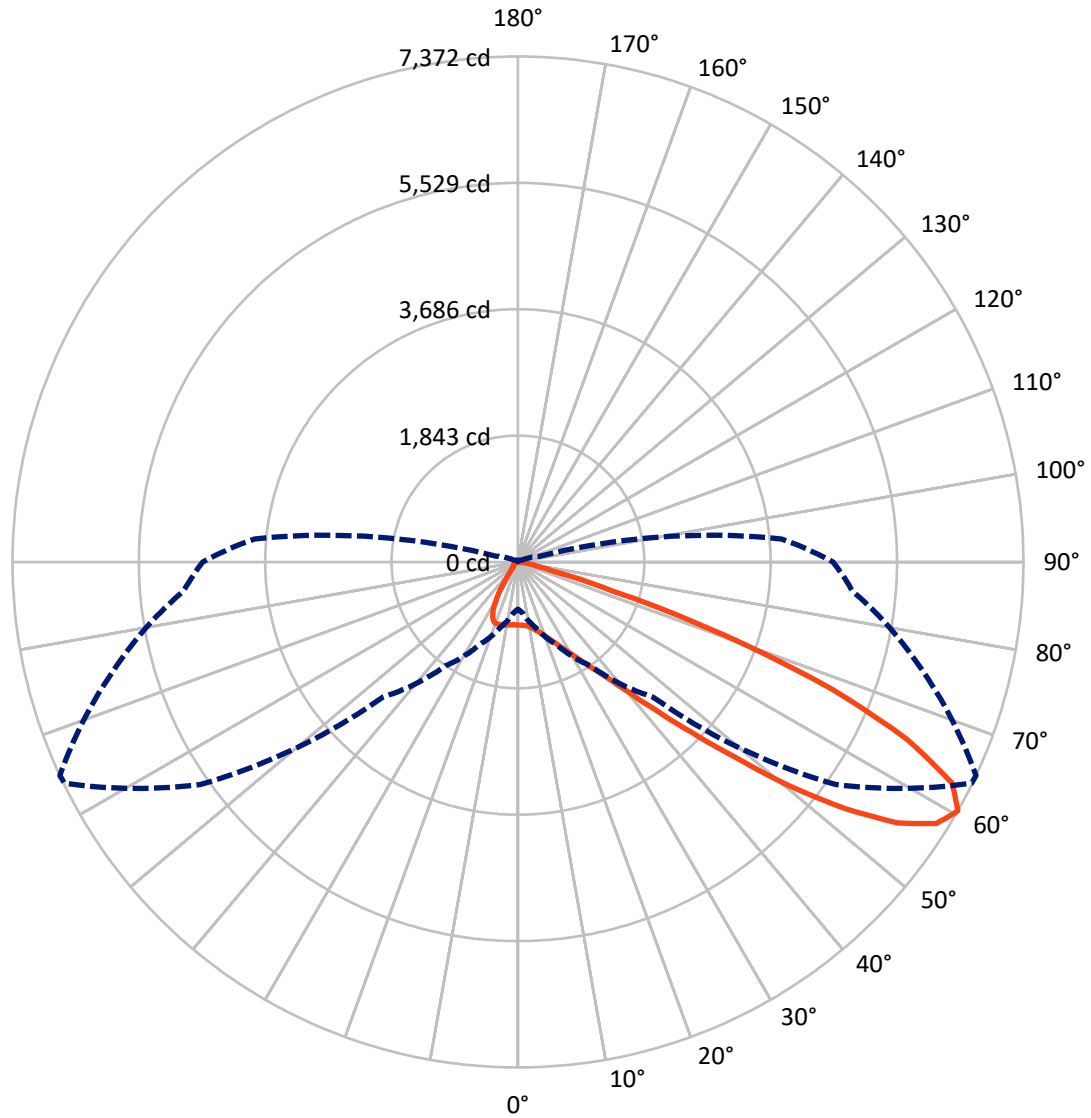
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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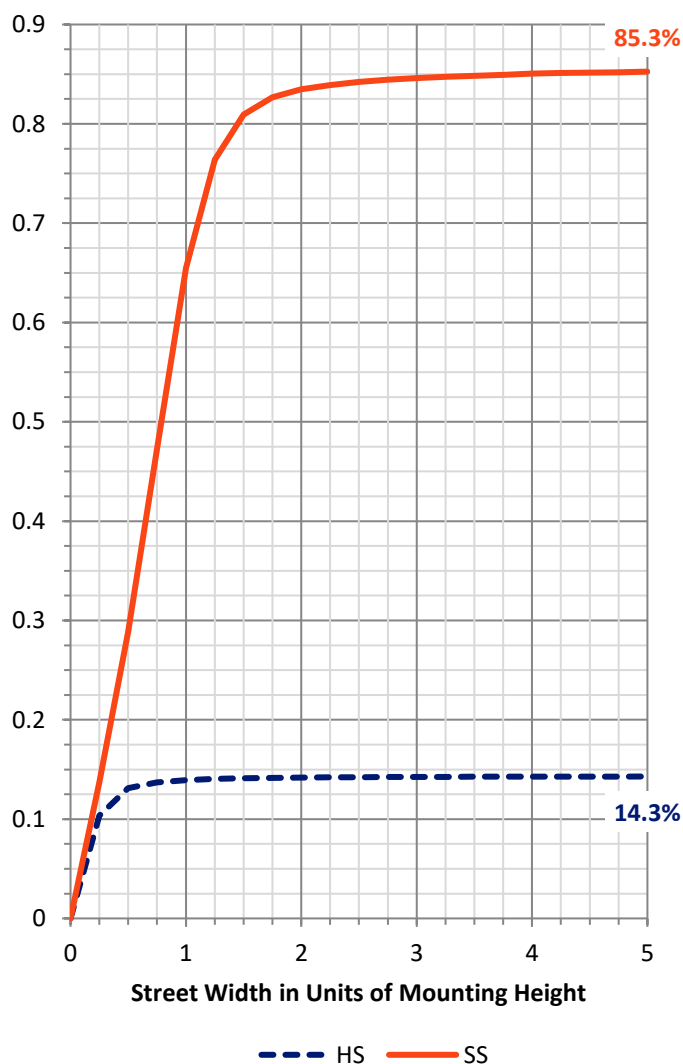
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1071.8	0.0	1071.8
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	6331.2	0.0	6331.2
	% Fixture	85.5	0.0	85.5
Total	Lumens	7403.0	0.0	7403.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	1.2
10°-20°	247.3	3.3
20°-30°	420.1	5.7
30°-40°	866.8	11.7
40°-50°	1743.1	23.5
50°-60°	2133.1	28.8
60°-70°	1509.0	20.4
70°-80°	363.7	4.9
80°-90°	32.8	0.4
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°	7403.0	100.0
0°-180°	7403.0	100.0

Coefficient of Utilization

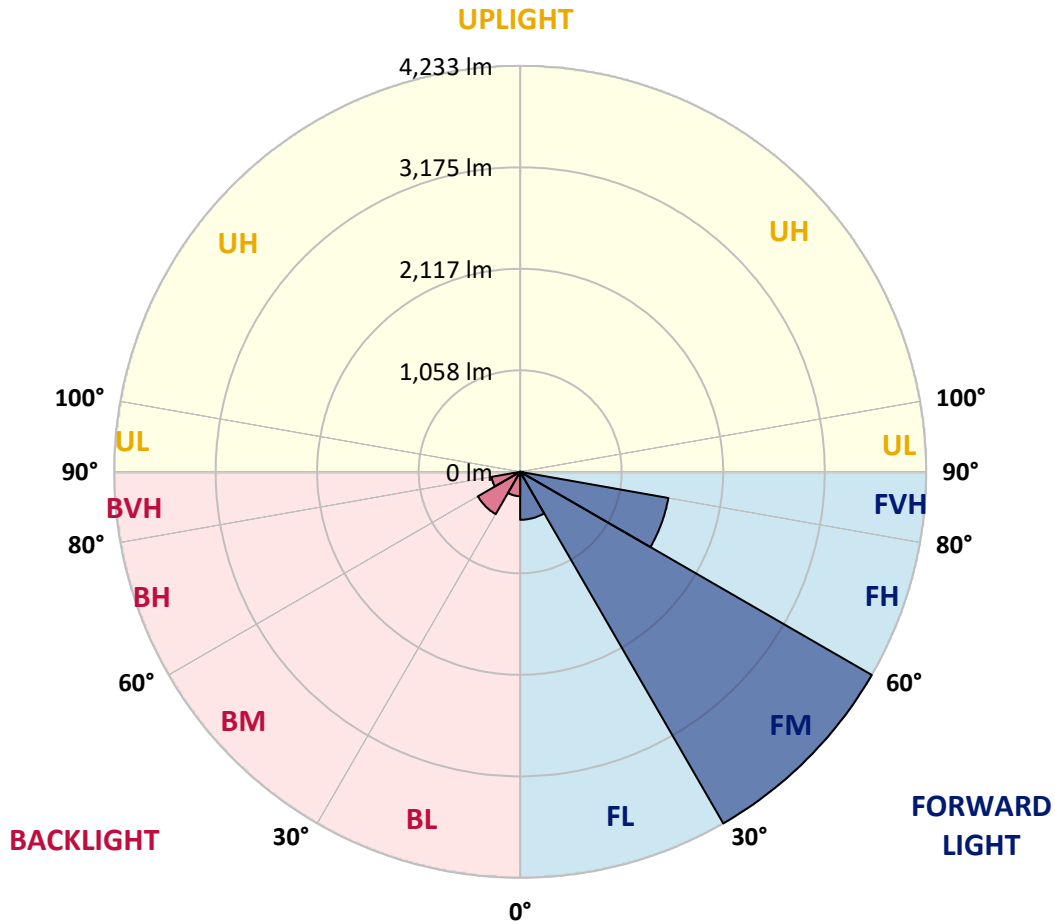


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	500.4	6.8			
FM (30°-60°)	4233.4	57.2			
FH (60°-80°)	1568.9	21.2			G1/1800
FVH (80°-90°)	28.6	0.4			G1/100
BL (0°-30°)	254.1	3.4	B1/500		
BM (30°-60°)	509.6	6.9	B1/1000		
BH (60°-80°)	303.8	4.1	B1/500		G1/500
BVH (80°-90°)	4.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	922.2	922.2	922.2	922.2	922.2	922.2	922.2	922.2	922.2	922.2	922.2
2.5°	925.1	922.2	922.2	922.2	925.1	925.1	928.1	922.2	922.2	922.2	922.2
5°	919.3	916.4	916.4	919.3	922.2	922.2	928.1	928.1	928.1	931.0	931.0
7.5°	931.0	925.1	925.1	928.1	931.0	931.0	936.8	939.7	939.7	945.6	948.5
10°	945.6	942.7	942.7	948.5	954.3	954.3	963.1	963.1	963.1	968.9	971.8
12.5°	966.0	963.1	963.1	971.8	980.6	986.4	992.3	995.2	998.1	998.1	998.1
15°	995.2	992.3	992.3	1001.0	1012.7	1027.3	1036.0	1036.0	1041.9	1039.0	1027.3
17.5°	1036.0	1033.1	1036.0	1041.9	1056.5	1071.1	1088.6	1091.5	1088.6	1082.7	1065.2
20°	1103.2	1094.4	1100.3	1114.8	1114.8	1123.6	1146.9	1155.7	1158.6	1141.1	1109.0
22.5°	1173.2	1173.2	1179.1	1196.6	1184.9	1196.6	1217.0	1231.6	1237.4	1222.8	1170.3
25°	1304.5	1310.4	1301.6	1295.8	1266.6	1272.4	1298.7	1327.9	1327.9	1316.2	1240.3
27.5°	1593.5	1587.6	1526.3	1441.7	1365.8	1371.7	1397.9	1435.9	1438.8	1412.5	1310.4
30°	2007.9	2013.7	1894.1	1701.5	1535.1	1491.3	1520.5	1564.3	1570.1	1526.3	1400.9
32.5°	2655.8	2606.2	2384.4	2127.5	1815.3	1657.7	1669.4	1716.0	1733.6	1695.6	1543.9
35°	3493.4	3376.6	3043.9	2725.8	2273.5	1955.4	1864.9	1914.5	1923.3	1902.8	1721.9
37.5°	3992.4	3899.0	3683.1	3394.2	2863.0	2352.3	2121.7	2171.3	2162.6	2121.7	1899.9
40°	4301.8	4249.3	4132.5	3998.3	3659.7	2976.8	2544.9	2504.0	2506.9	2448.6	2188.8
42.5°	4476.9	4430.2	4386.4	4421.4	4322.2	4109.2	3157.8	2971.0	2953.5	2842.6	2524.5
45°	4485.7	4415.6	4468.1	4672.4	4830.0	5113.1	3957.4	3525.5	3534.2	3350.4	2941.8
47.5°	4150.0	4094.6	4246.3	4646.2	5168.6	5769.8	4888.4	4284.3	4243.4	3881.5	3365.0
50°	3487.5	3484.6	3686.0	4252.2	5168.6	6108.3	5886.5	5174.4	5130.6	4436.0	3750.2
52.5°	2760.8	2816.3	2953.5	3490.5	4692.9	6076.2	6622.0	6093.7	5971.1	4929.3	4071.2
55°	2148.0	2127.5	2293.9	2664.5	3721.0	5521.7	6861.3	6817.5	6715.3	5367.0	4354.3
57.5°	1319.1	1395.0	1619.7	1949.5	2708.3	4342.6	6516.9	7258.2	7196.9	5775.6	4649.1
60°	685.8	744.2	986.4	1330.8	1850.3	2784.2	5655.9	7360.3	7372.0	6105.4	4900.1
62.5°	431.9	429.0	539.9	933.9	1190.7	1564.3	4392.3	6998.4	7109.3	6359.3	5139.4
65°	323.9	326.9	370.6	618.7	808.4	817.2	2606.2	6052.9	6236.7	6426.4	5221.1
67.5°	300.6	303.5	323.9	405.7	607.0	545.7	1146.9	4666.6	4923.4	5807.7	4905.9
70°	268.5	271.4	303.5	335.6	458.2	399.8	516.6	2810.5	3166.5	4214.2	3925.3
72.5°	210.1	216.0	253.9	318.1	341.5	303.5	359.0	1243.3	1450.5	2317.2	2247.2
75°	154.7	157.6	192.6	245.1	300.6	216.0	277.3	493.2	539.9	869.7	741.3
77.5°	108.0	108.0	134.2	183.9	251.0	151.8	198.5	265.6	271.4	323.9	213.0
80°	67.1	70.0	84.6	125.5	154.7	145.9	122.6	178.0	178.0	169.3	87.6
82.5°	37.9	40.9	58.4	84.6	105.1	99.2	78.8	102.1	105.1	108.0	49.6
85°	17.5	20.4	35.0	52.5	61.3	46.7	46.7	52.5	52.5	70.0	29.2
87.5°	2.9	2.9	17.5	23.3	20.4	23.3	23.3	29.2	29.2	35.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	922.2	922.2	922.2	922.2	922.2	922.2	922.2	922.2	922.2	922.2	922.2
2.5°	919.3	919.3	919.3	916.4	916.4	913.5	907.6	907.6	907.6	907.6	910.6
5°	931.0	928.1	925.1	916.4	910.6	898.9	887.2	884.3	875.5	875.5	878.5
7.5°	945.6	945.6	936.8	922.2	907.6	887.2	866.8	852.2	837.6	834.7	831.8
10°	971.8	966.0	957.3	931.0	907.6	875.5	843.4	805.5	776.3	761.7	755.9
12.5°	992.3	989.4	971.8	942.7	904.7	855.1	782.1	694.6	624.5	586.6	586.6
15°	1021.5	1015.6	989.4	948.5	896.0	779.2	630.4	496.1	420.3	379.4	373.6
17.5°	1050.6	1039.0	1006.9	951.4	858.0	642.1	440.7	318.1	265.6	245.1	239.3
20°	1085.7	1065.2	1018.5	954.3	764.6	467.0	286.0	213.0	192.6	183.9	186.8
22.5°	1132.4	1097.3	1030.2	936.8	624.5	303.5	201.4	172.2	160.5	151.8	151.8
25°	1190.7	1141.1	1050.6	887.2	452.4	204.3	160.5	143.0	131.3	125.5	122.6
27.5°	1243.3	1182.0	1071.1	799.7	288.9	160.5	134.2	119.7	108.0	105.1	102.1
30°	1313.3	1228.7	1091.5	659.6	189.7	131.3	113.8	99.2	90.5	87.6	87.6
32.5°	1433.0	1319.1	1129.4	502.0	143.0	113.8	96.3	84.6	78.8	75.9	75.9
35°	1573.0	1430.0	1161.5	350.2	122.6	96.3	81.7	73.0	70.0	67.1	67.1
37.5°	1719.0	1561.4	1167.4	221.8	108.0	84.6	73.0	67.1	61.3	61.3	61.3
40°	1981.6	1791.9	1141.1	148.8	93.4	75.9	64.2	61.3	55.5	55.5	55.5
42.5°	2288.1	2072.1	1074.0	119.7	84.6	67.1	61.3	55.5	49.6	49.6	46.7
45°	2685.0	2390.2	960.2	105.1	75.9	61.3	55.5	49.6	46.7	43.8	43.8
47.5°	3058.5	2752.1	852.2	93.4	70.0	58.4	49.6	43.8	40.9	40.9	40.9
50°	3414.6	3029.3	726.7	87.6	64.2	55.5	46.7	40.9	37.9	35.0	35.0
52.5°	3671.4	3248.2	610.0	78.8	58.4	49.6	43.8	37.9	32.1	29.2	29.2
55°	3957.4	3470.0	504.9	70.0	55.5	46.7	37.9	32.1	26.3	23.3	23.3
57.5°	4278.4	3686.0	408.6	64.2	52.5	40.9	32.1	26.3	20.4	17.5	17.5
60°	4596.6	3858.2	326.9	58.4	46.7	37.9	29.2	20.4	14.6	11.7	11.7
62.5°	4914.7	3974.9	251.0	52.5	43.8	32.1	23.3	14.6	8.8	5.8	5.8
65°	5046.0	3942.8	186.8	46.7	37.9	26.3	20.4	14.6	8.8	5.8	5.8
67.5°	4681.2	3545.9	131.3	46.7	35.0	26.3	17.5	11.7	5.8	2.9	2.9
70°	3653.9	2737.5	96.3	46.7	35.0	26.3	17.5	11.7	5.8	2.9	2.9
72.5°	2072.1	1523.4	73.0	40.9	32.1	23.3	17.5	11.7	5.8	2.9	2.9
75°	738.4	490.3	55.5	37.9	29.2	20.4	17.5	11.7	5.8	2.9	2.9
77.5°	178.0	125.5	43.8	32.1	26.3	20.4	14.6	11.7	8.8	2.9	2.9
80°	73.0	52.5	35.0	26.3	20.4	17.5	14.6	11.7	5.8	2.9	2.9
82.5°	32.1	26.3	14.6	14.6	11.7	11.7	11.7	11.7	5.8	2.9	2.9
85°	14.6	11.7	5.8	5.8	2.9	2.9	2.9	5.8	5.8	2.9	2.9
87.5°	8.8	5.8	5.8	5.8	2.9	2.9	2.9	0.0	0.0	0.0	0.0
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)