

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: P397903

Luminaire Tested: **ARCH-S-PA1-60-727-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-60-727-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7507 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 64
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: 28.75 FT

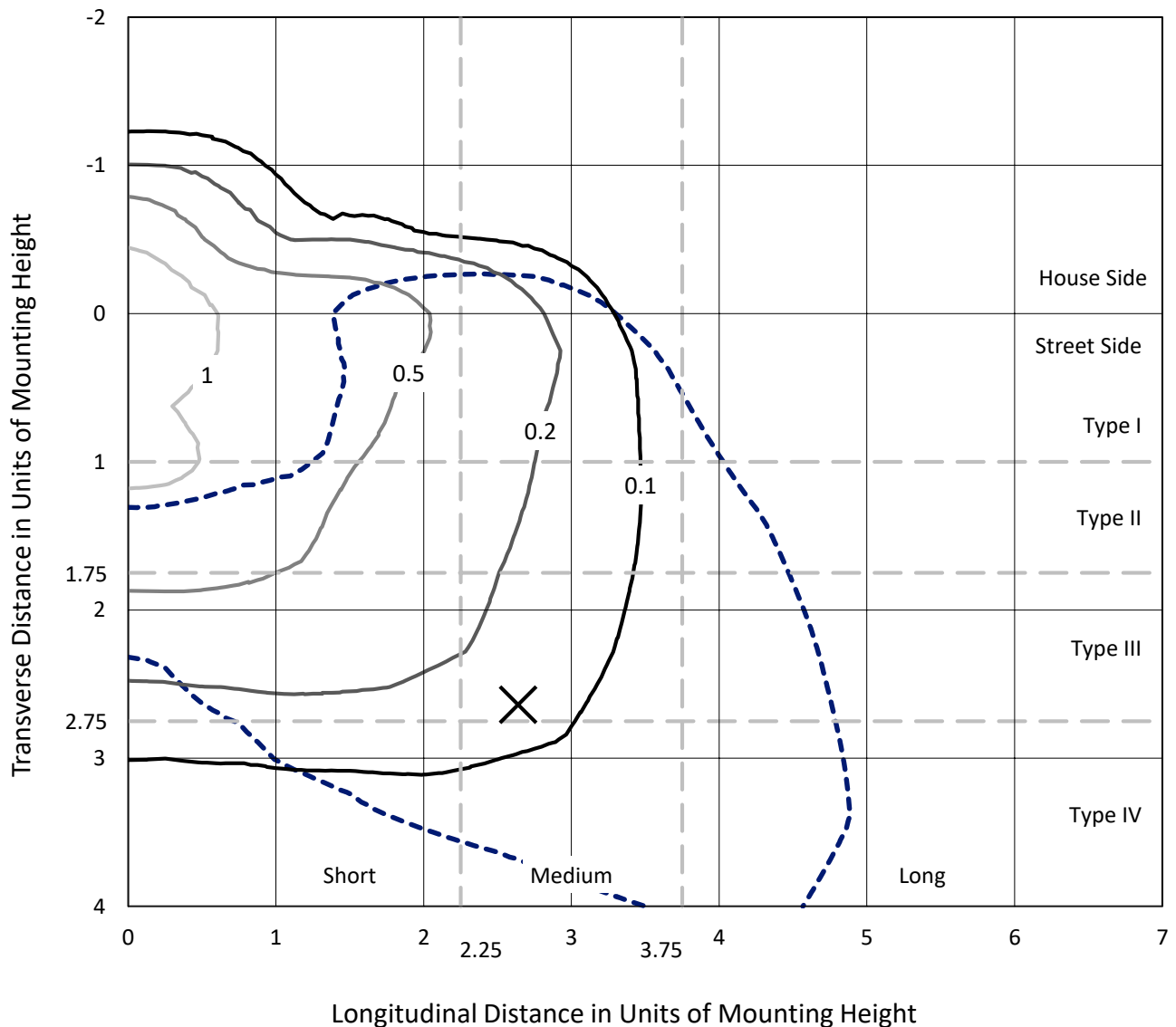


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Iso-Footcandle Lines of Horizontal Illumination

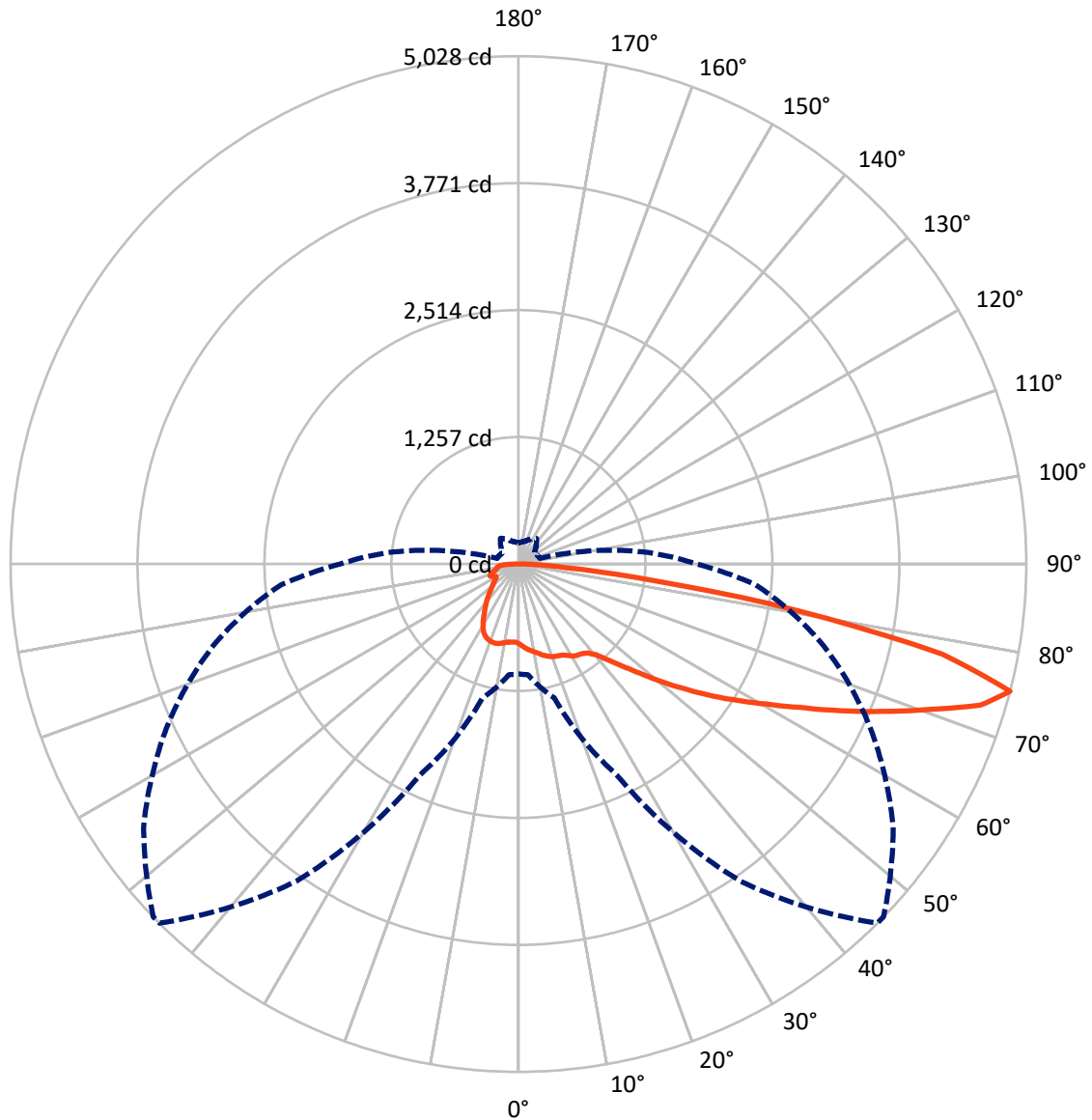
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1659.0	0.0	1659.0
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	5848.0	0.0	5848.0
	% Fixture	77.9	0.0	77.9
Total	Lumens	7507.0	0.0	7507.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	1.0
10°-20°	248.1	3.3
20°-30°	423.0	5.6
30°-40°	592.7	7.9
40°-50°	870.8	11.6
50°-60°	1385.9	18.5
60°-70°	1971.4	26.3
70°-80°	1650.6	22.0
80°-90°	286.5	3.8
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°	7507.0	100.0
0°-180°	7507.0	100.0

Coefficient of Utilization



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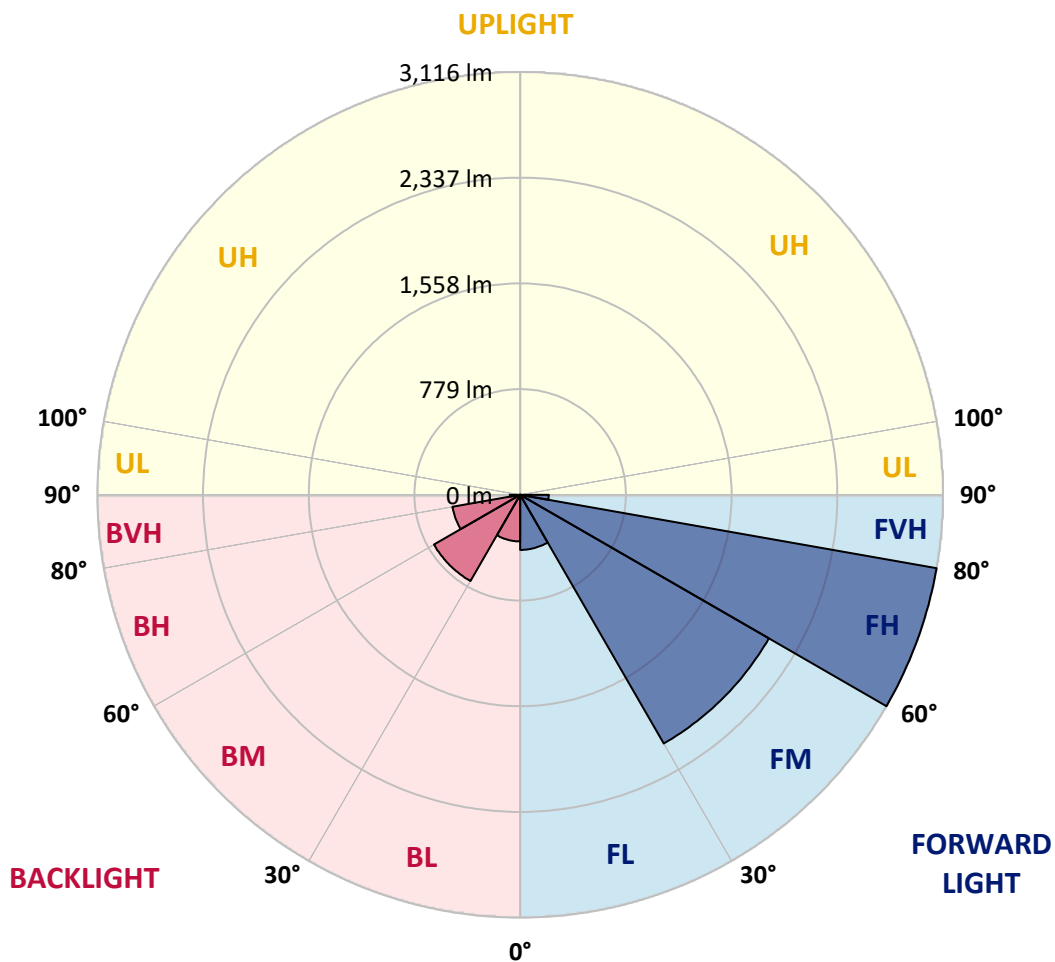
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	405.8	5.4			
FM (30°-60°)	2116.0	28.2			
FH (60°-80°)	3115.6	41.5			G2/5000
FVH (80°-90°)	210.6	2.8			G2/225
BL (0°-30°)	343.4	4.6	B1/500		
BM (30°-60°)	733.4	9.8	B1/1000		
BH (60°-80°)	506.4	6.7	B2/1000		G2/1000
BVH (80°-90°)	75.9	1.0			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4
2.5°	833.5	829.5	827.5	827.5	819.5	814.5	813.5	806.5	800.4	794.4	789.4
5°	881.7	878.7	872.7	867.6	856.6	842.6	840.6	825.5	810.5	796.4	784.4
7.5°	925.8	919.8	912.8	902.7	884.7	865.6	862.6	841.6	820.5	799.4	783.4
10°	962.9	956.9	946.9	932.8	909.8	886.7	883.7	861.6	839.6	814.5	791.4
12.5°	998.0	993.0	978.0	958.9	931.8	910.8	907.8	888.7	865.6	837.5	807.5
15°	1028.1	1023.1	1007.1	985.0	953.9	937.9	933.8	915.8	892.7	862.6	831.5
17.5°	1043.2	1043.2	1026.1	1002.0	973.0	960.9	957.9	935.8	914.8	885.7	854.6
20°	1048.2	1050.2	1038.2	1009.1	984.0	979.0	976.0	957.9	933.8	905.8	876.7
22.5°	1051.2	1055.2	1045.2	1012.1	991.0	988.0	986.0	974.0	954.9	927.8	898.7
25°	1061.2	1061.2	1054.2	1017.1	1000.0	999.0	999.0	992.0	979.0	955.9	926.8
27.5°	1076.3	1075.3	1066.2	1028.1	1020.1	1023.1	1022.1	1021.1	1012.1	989.0	957.9
30°	1101.4	1101.4	1091.3	1050.2	1045.2	1058.2	1059.2	1061.2	1047.2	1011.1	986.0
32.5°	1139.5	1135.5	1125.4	1072.3	1064.2	1076.3	1078.3	1077.3	1065.2	1031.1	1019.1
35°	1256.8	1247.8	1211.7	1121.4	1081.3	1088.3	1089.3	1094.3	1096.3	1069.3	1063.2
37.5°	1462.5	1450.4	1395.2	1237.8	1135.5	1118.4	1117.4	1130.4	1141.5	1117.4	1117.4
40°	1686.1	1676.1	1644.0	1438.4	1235.8	1179.6	1175.6	1187.6	1201.7	1184.6	1189.6
42.5°	1878.7	1886.7	1889.8	1651.0	1386.2	1293.9	1282.9	1265.9	1287.9	1272.9	1292.9
45°	2023.2	2019.1	2074.3	1868.7	1580.8	1437.4	1422.3	1376.2	1404.3	1403.3	1447.4
47.5°	2176.6	2169.6	2192.7	2073.3	1802.5	1612.9	1589.8	1521.6	1563.8	1592.8	1666.1
50°	2322.1	2324.1	2332.1	2234.8	2043.2	1826.6	1797.5	1706.2	1766.4	1827.6	1930.9
52.5°	2511.6	2497.6	2487.6	2423.4	2313.0	2049.2	2030.2	1925.9	2010.1	2082.3	2219.8
55°	2677.1	2668.1	2662.1	2659.1	2538.7	2295.0	2274.9	2166.6	2288.0	2339.1	2541.7
57.5°	2853.7	2848.7	2880.8	2931.9	2883.8	2544.7	2523.7	2419.4	2554.8	2590.9	2890.8
60°	2983.1	2986.1	3074.4	3204.8	3171.7	2815.6	2790.5	2698.2	2814.6	2846.7	3239.9
62.5°	2984.1	3014.2	3218.8	3452.5	3490.6	3127.5	3098.4	2998.1	3081.4	3081.4	3552.8
65°	2699.2	2733.3	3192.7	3513.7	3813.6	3498.6	3470.6	3313.1	3344.2	3302.0	3846.7
67.5°	2415.4	2455.5	2887.8	3518.7	4040.3	3895.9	3862.8	3628.0	3574.9	3468.6	4052.3
70°	2226.8	2254.9	2616.0	3453.5	4176.7	4311.1	4286.0	3927.0	3756.4	3608.0	4009.2
72.5°	1874.7	1864.7	2209.7	3143.6	4252.9	4782.6	4761.5	4251.9	3913.9	3541.8	3419.4
75°	1088.3	1100.3	1371.2	2303.0	3833.7	5028.3	5026.3	4529.8	3844.7	3128.5	2356.2
77.5°	314.0	323.0	450.4	1012.1	2424.4	4289.1	4426.5	4142.6	3249.9	2229.8	1221.7
80°	137.4	144.4	195.6	337.0	1044.2	2801.5	2921.9	2801.5	1960.0	1023.1	479.5
82.5°	81.2	86.3	127.4	208.6	500.5	1333.1	1495.6	1306.0	845.6	434.3	198.6
85°	46.1	48.1	73.2	132.4	315.0	466.4	523.6	490.5	412.3	246.8	104.3
87.5°	21.1	22.1	36.1	62.2	176.5	157.5	163.5	216.7	238.7	150.5	52.2
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°	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4
2.5°	787.4	784.4	778.4	776.4	773.4	774.4	775.4	775.4	776.4	773.4	773.4
5°	779.4	774.4	768.3	768.3	768.3	776.4	783.4	787.4	789.4	789.4	787.4
7.5°	776.4	770.3	763.3	765.3	767.3	777.4	790.4	803.4	807.5	807.5	805.5
10°	782.4	776.4	771.3	774.4	779.4	787.4	797.4	809.5	819.5	820.5	819.5
12.5°	796.4	789.4	784.4	790.4	796.4	801.4	806.5	811.5	824.5	826.5	826.5
15°	819.5	812.5	806.5	811.5	813.5	813.5	813.5	813.5	826.5	828.5	828.5
17.5°	842.6	836.5	830.5	831.5	825.5	817.5	814.5	813.5	820.5	826.5	827.5
20°	864.6	859.6	853.6	843.6	828.5	813.5	808.5	808.5	812.5	821.5	821.5
22.5°	888.7	882.7	872.7	849.6	824.5	803.4	798.4	801.4	806.5	818.5	817.5
25°	915.8	907.8	890.7	847.6	811.5	786.4	787.4	796.4	805.5	818.5	818.5
27.5°	945.9	934.8	900.7	831.5	782.4	758.3	767.3	788.4	801.4	815.5	817.5
30°	979.0	968.9	908.8	803.4	735.2	713.2	735.2	769.3	789.4	802.4	805.5
32.5°	1019.1	1011.1	915.8	767.3	674.1	655.0	687.1	729.2	761.3	776.4	779.4
35°	1069.3	1061.2	924.8	726.2	616.9	596.8	625.9	669.0	711.2	730.2	736.2
37.5°	1134.5	1122.4	932.8	682.1	568.7	545.7	559.7	598.8	636.9	663.0	670.0
40°	1217.7	1198.6	939.9	631.9	526.6	500.5	505.5	524.6	546.7	569.7	578.8
42.5°	1335.1	1296.9	940.9	578.8	483.5	459.4	457.4	463.4	463.4	463.4	466.4
45°	1498.6	1426.3	942.9	528.6	439.3	414.3	408.2	406.2	391.2	362.1	360.1
47.5°	1705.2	1595.9	951.9	486.5	393.2	371.1	363.1	355.1	327.0	296.9	290.9
50°	1970.0	1792.5	970.0	446.4	354.1	339.0	329.0	309.9	278.8	255.8	249.8
52.5°	2274.9	2026.2	987.0	404.2	325.0	315.0	302.9	279.9	246.8	232.7	230.7
55°	2625.0	2287.0	1021.1	367.1	299.9	292.9	281.9	259.8	234.7	224.7	223.7
57.5°	2983.1	2578.8	1069.3	334.0	275.8	271.8	271.8	252.8	236.7	232.7	232.7
60°	3328.1	2829.6	1032.1	302.9	253.8	255.8	274.8	269.8	257.8	262.8	265.8
62.5°	3595.9	2977.1	837.5	277.8	237.7	255.8	304.9	304.9	290.9	288.9	288.9
65°	3710.3	2975.1	588.8	258.8	231.7	280.9	340.0	324.0	286.9	272.8	269.8
67.5°	3681.2	2844.7	406.2	245.7	229.7	306.9	356.1	310.9	268.8	256.8	247.8
70°	3425.4	2568.8	313.0	233.7	226.7	295.9	351.1	295.9	254.8	243.7	235.7
72.5°	2763.4	2060.3	259.8	221.7	214.7	273.8	334.0	281.9	243.7	231.7	223.7
75°	1762.4	1295.9	219.7	205.6	191.6	245.7	310.9	267.8	231.7	215.7	209.6
77.5°	847.6	558.7	191.6	186.6	172.5	227.7	287.9	249.8	215.7	202.6	198.6
80°	343.0	255.8	166.5	167.5	158.5	216.7	271.8	232.7	199.6	185.6	178.5
82.5°	178.5	148.5	140.4	144.4	144.4	206.6	259.8	218.7	185.6	179.5	156.5
85°	96.3	92.3	108.3	116.4	125.4	186.6	241.7	203.6	169.5	145.4	140.4
87.5°	47.1	60.2	61.2	70.2	87.3	149.5	203.6	170.5	141.4	117.4	115.4
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)