

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: P400137

Luminaire Tested: **ARCH-L-PA3-240-730-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-240-730-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23840 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

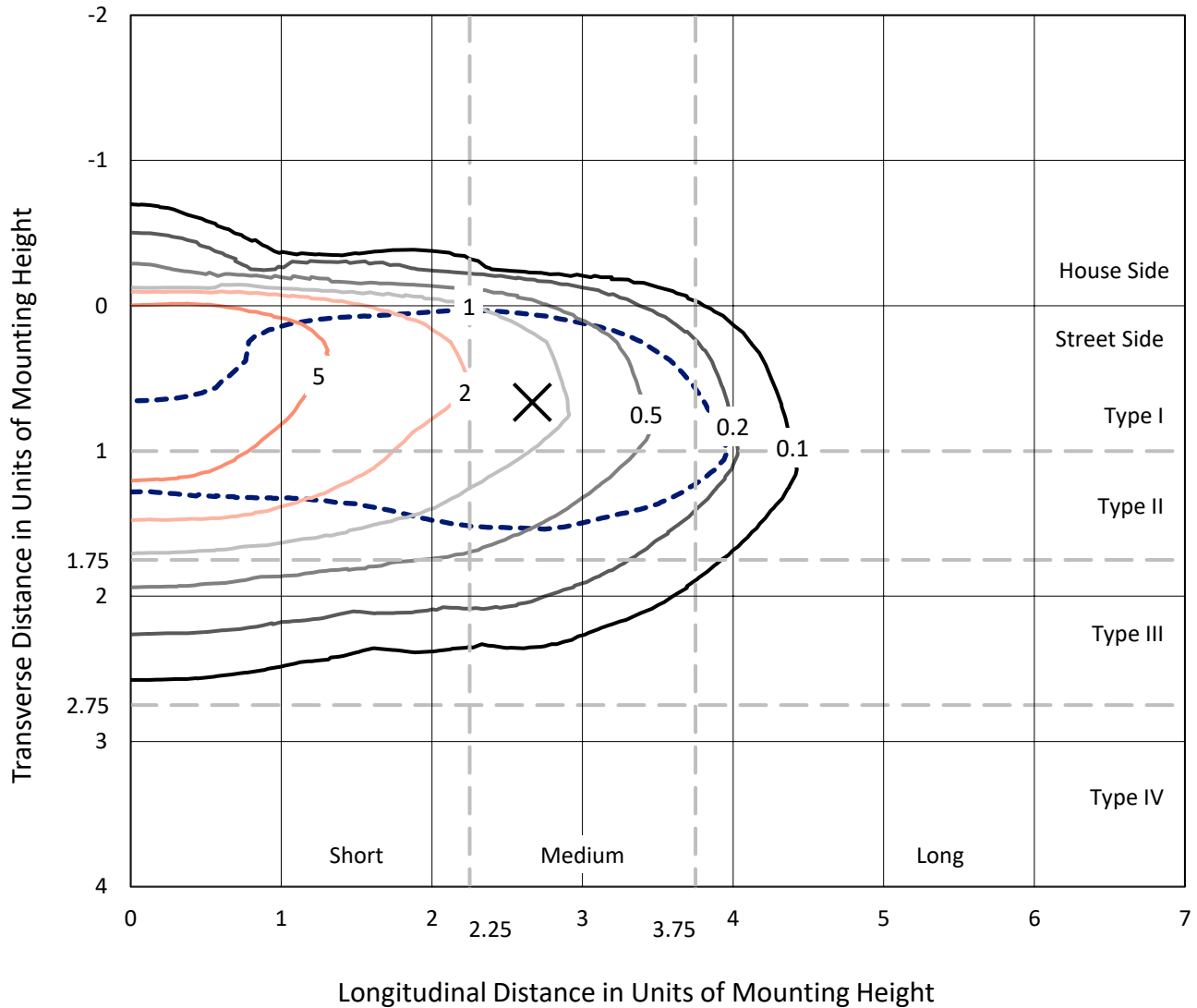
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

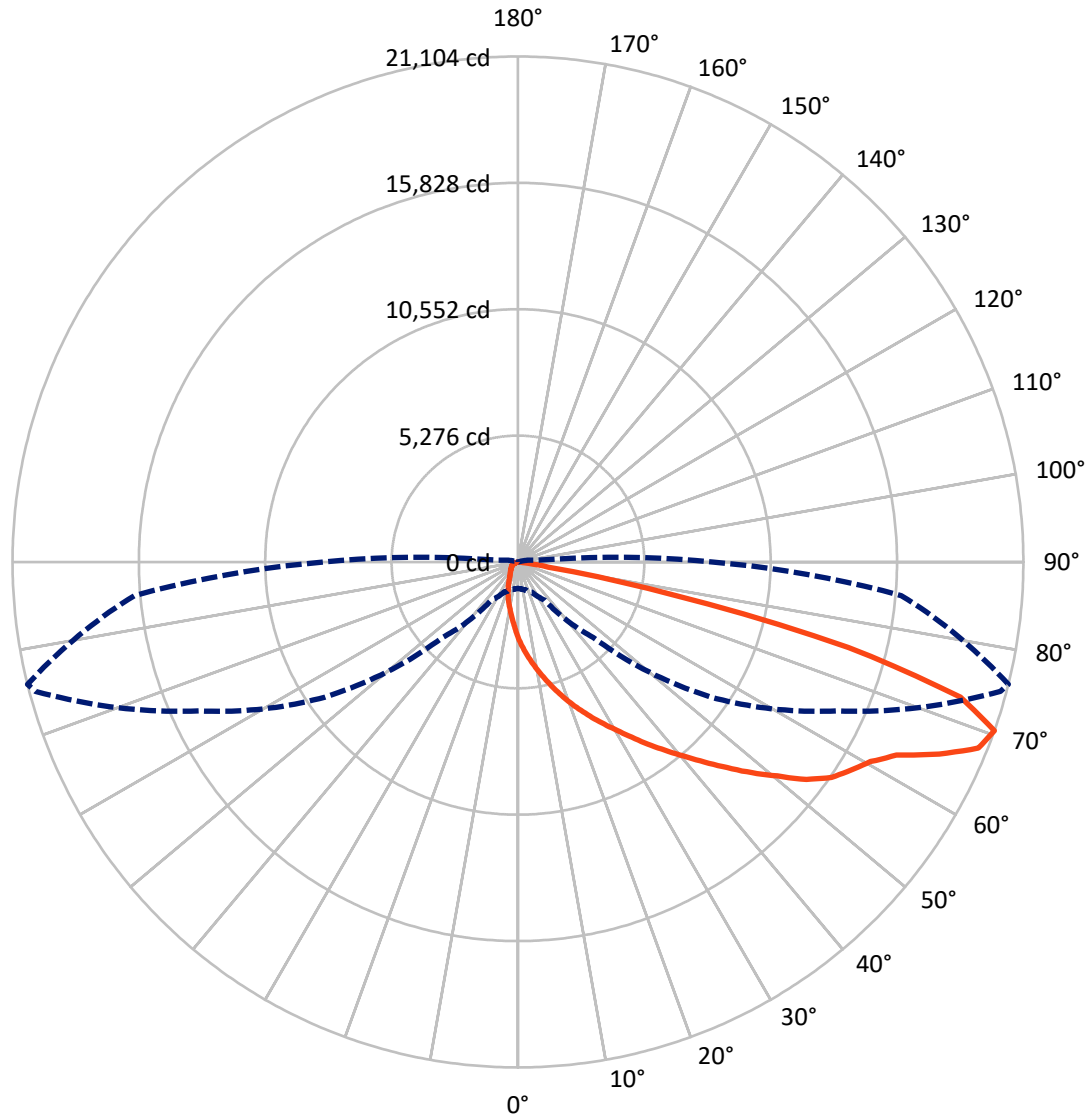
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P400137
CATALOG NUMBER: ARCH-L-PA3-240-730-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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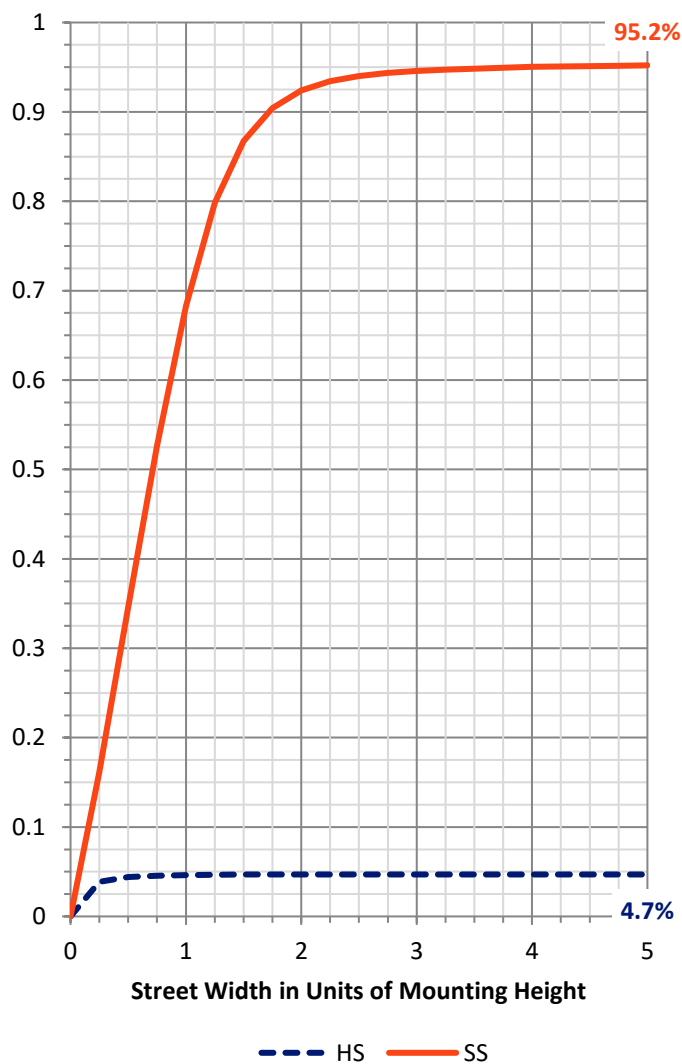
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1124.4	0.0	1124.4
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	22715.6	0.0	22715.6
	% Fixture	95.3	0.0	95.3
Total	Lumens	23840.0	0.0	23840.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.6	1.3
10°-20°	970.3	4.1
20°-30°	1807.0	7.6
30°-40°	3196.2	13.4
40°-50°	4887.7	20.5
50°-60°	5541.5	23.2
60°-70°	4750.5	19.9
70°-80°	2300.8	9.7
80°-90°	85.4	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°	23840.0	100.0
0°-180°	23840.0	100.0

Coefficient of Utilization

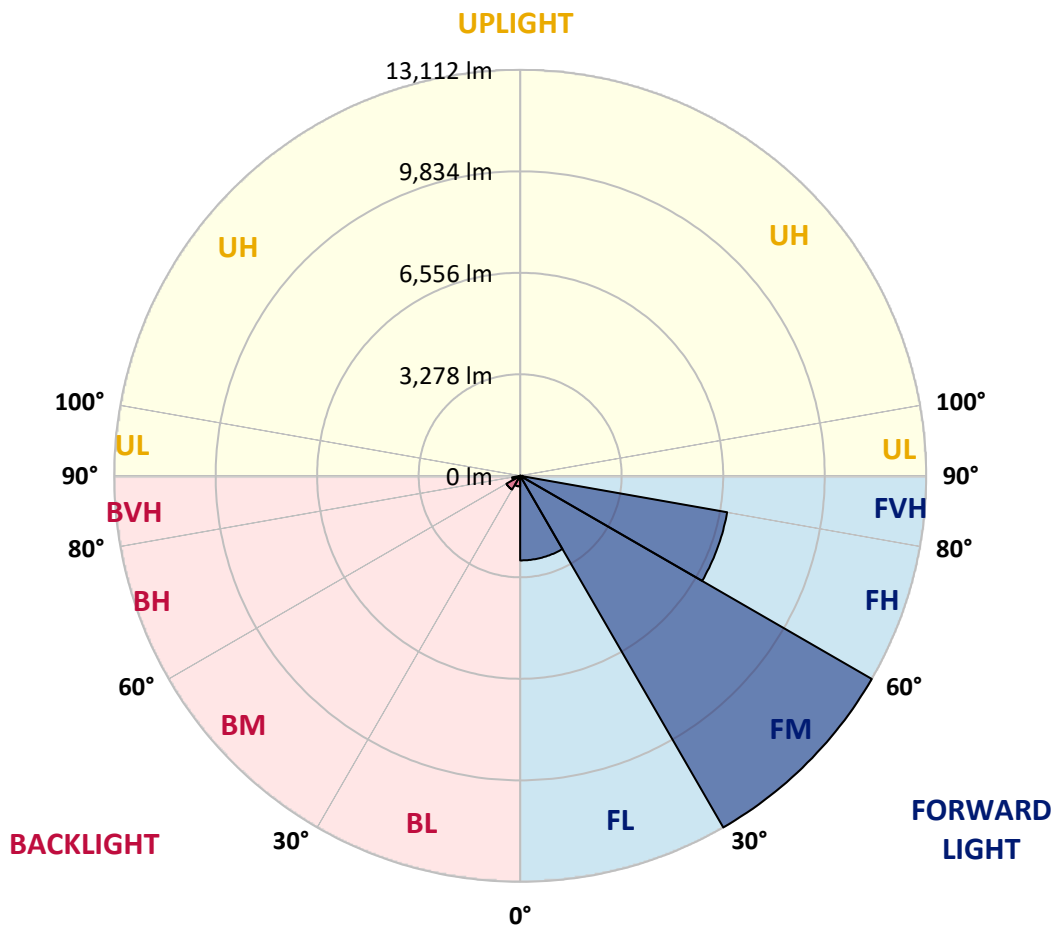


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2733.0	11.5			
FM (30°-60°)	13112.2	55.0			
FH (60°-80°)	6786.5	28.5			G3/7500
FVH (80°-90°)	83.9	0.4			G1/100
BL (0°-30°)	344.9	1.4	B1/500		
BM (30°-60°)	513.3	2.2	B1/1000		
BH (60°-80°)	264.7	1.1	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Medium





REPORT NUMBER: P400137

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3191.1	3191.1	3191.1	3191.1	3191.1	3191.1	3191.1	3191.1	3191.1	3191.1	3191.1
2.5°	4362.0	4338.2	4314.4	4223.1	4139.7	4064.3	3921.4	3734.9	3568.2	3532.5	3338.0
5°	5124.1	5096.3	5060.6	4969.3	4862.1	4735.1	4524.7	4239.0	3945.3	3881.8	3520.6
7.5°	5640.1	5616.2	5564.6	5521.0	5413.8	5290.8	5056.6	4723.2	4318.4	4239.0	3730.9
10°	5993.3	5977.4	5969.5	5933.8	5854.4	5755.2	5521.0	5171.7	4695.4	4604.1	3953.2
12.5°	6120.3	6120.3	6160.0	6219.5	6231.4	6199.7	5985.4	5636.1	5092.3	4997.1	4215.2
15°	5949.6	5969.5	6056.8	6247.3	6445.8	6576.8	6441.8	6116.3	5528.9	5425.7	4524.7
17.5°	5902.0	5921.9	5981.4	6148.1	6414.0	6763.3	6830.8	6580.7	5941.7	5854.4	4842.3
20°	6037.0	6056.8	6108.4	6251.3	6453.7	6807.0	7088.8	7029.2	6378.3	6287.0	5163.8
22.5°	6358.5	6370.4	6370.4	6481.5	6660.1	6922.1	7251.5	7453.9	6826.8	6727.6	5481.3
25°	7049.1	7025.3	6930.0	6874.4	6989.5	7203.9	7457.9	7827.0	7326.9	7192.0	5822.6
27.5°	7954.0	8033.4	7803.2	7537.3	7450.0	7573.0	7747.6	8156.5	7811.1	7668.3	6132.2
30°	9180.5	9148.7	8847.1	8466.0	8089.0	8045.3	8104.9	8438.3	8295.4	8160.4	6477.5
32.5°	10188.6	10248.2	9930.6	9466.2	8902.6	8636.7	8573.2	8775.6	8811.3	8724.0	6886.3
35°	11224.5	11288.1	10978.5	10462.5	9791.7	9347.2	9164.6	9192.4	9450.4	9339.2	7315.0
37.5°	12153.3	12208.9	11903.3	11375.4	10704.6	10160.8	9898.9	9684.5	10069.5	9970.3	7767.5
40°	12859.8	12867.7	12661.4	12189.0	11554.0	10990.4	10692.7	10272.0	10724.4	10657.0	8239.8
42.5°	13359.9	13375.8	13225.0	12820.1	12232.7	11708.8	11466.7	10966.6	11478.6	11419.0	8787.5
45°	13594.1	13621.9	13606.0	13232.9	12744.7	12292.2	12212.8	11704.8	12304.1	12248.6	9418.6
47.5°	13371.8	13371.8	13574.2	13522.6	13074.1	12772.5	12863.8	12474.8	13201.1	13149.5	10061.6
50°	12447.0	12458.9	12871.7	13463.1	13201.1	13133.7	13419.4	13228.9	14014.8	14046.6	10831.6
52.5°	10017.9	9998.1	11391.2	12526.4	13113.8	13296.4	13931.5	13998.9	14991.2	15086.5	11597.6
55°	7485.7	7473.8	8807.4	10867.3	12502.6	13213.1	14217.2	14685.6	15824.7	15884.2	12169.2
57.5°	5925.8	5894.1	6628.4	8759.8	11121.4	12840.0	14229.1	14816.6	16289.1	16392.3	12724.9
60°	4556.5	4528.7	5076.4	6517.2	9164.6	11847.7	13887.8	14824.5	16737.6	16920.2	13471.0
62.5°	3258.6	3290.4	3711.1	4675.6	7049.1	10446.6	13443.3	14935.6	17535.4	17741.8	14530.8
65°	2198.9	2183.0	2532.3	3183.2	5012.9	8561.3	12760.6	15169.8	18972.2	19333.4	15800.9
67.5°	1528.1	1540.0	1698.8	2071.9	3183.2	6572.8	11625.4	15300.8	20456.6	20738.4	16690.0
70°	1103.4	1119.3	1206.6	1393.1	1944.8	4457.3	9827.4	14701.5	20857.5	21103.6	16070.8
72.5°	726.3	758.1	889.1	988.3	1242.3	2790.3	7239.6	12665.3	19130.9	19313.5	13483.0
75°	392.9	400.9	571.5	738.2	885.1	1738.5	4318.4	8541.5	14312.5	14253.0	8890.7
77.5°	305.6	317.5	353.2	527.9	595.4	956.5	1706.7	3857.9	6779.2	6596.6	3032.4
80°	186.5	194.5	246.1	313.6	416.8	555.7	500.1	1047.8	1377.3	1289.9	444.5
82.5°	111.1	119.1	146.9	262.0	329.4	262.0	174.6	254.0	258.0	254.0	111.1
85°	19.8	19.8	103.2	182.6	174.6	75.4	103.2	83.4	75.4	79.4	23.8
87.5°	0.0	0.0	39.7	55.6	79.4	27.8	39.7	19.8	19.8	19.8	11.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P400137
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3191.1	3191.1	3191.1	3191.1	3191.1	3191.1	3191.1	3191.1	3191.1	3191.1	3191.1
2.5°	3218.9	3084.0	2806.1	2564.0	2321.9	2143.3	2008.4	1869.4	1821.8	1762.3	1730.5
5°	3274.5	3008.6	2456.9	2016.3	1643.2	1357.4	1174.8	1063.7	992.3	940.7	928.8
7.5°	3357.8	2949.0	2175.1	1579.7	1170.9	885.1	734.3	658.9	619.2	595.4	587.4
10°	3457.1	2897.4	1897.2	1230.4	825.6	623.1	539.8	508.0	492.2	484.2	480.3
12.5°	3596.0	2877.6	1663.0	948.6	623.1	512.0	468.4	448.5	436.6	424.7	420.7
15°	3778.6	2885.5	1448.7	734.3	516.0	456.4	420.7	400.9	385.0	373.1	373.1
17.5°	3969.1	2897.4	1238.4	595.4	468.4	416.8	377.1	349.3	337.4	325.5	321.5
20°	4147.7	2893.5	1035.9	508.0	424.7	373.1	333.4	305.6	285.8	273.9	273.9
22.5°	4318.4	2869.6	845.4	456.4	389.0	329.4	285.8	258.0	242.1	230.2	230.2
25°	4500.9	2822.0	690.6	416.8	345.3	289.7	246.1	218.3	206.4	194.5	194.5
27.5°	4643.8	2742.6	563.6	381.0	305.6	250.1	210.4	186.5	174.6	166.7	166.7
30°	4798.6	2627.5	468.4	341.3	265.9	214.3	178.6	158.8	146.9	142.9	142.9
32.5°	4969.3	2500.5	400.9	301.6	226.2	182.6	150.8	138.9	127.0	123.0	123.0
35°	5167.7	2389.4	361.2	262.0	198.5	154.8	131.0	119.1	111.1	111.1	111.1
37.5°	5394.0	2274.3	325.5	230.2	170.7	131.0	111.1	107.2	103.2	99.2	99.2
40°	5640.1	2151.2	293.7	202.4	146.9	111.1	95.3	95.3	91.3	91.3	91.3
42.5°	5917.9	2044.1	265.9	178.6	127.0	95.3	83.4	83.4	79.4	79.4	79.4
45°	6219.5	1944.8	242.1	158.8	111.1	83.4	75.4	71.4	67.5	67.5	67.5
47.5°	6576.8	1889.3	222.3	138.9	95.3	71.4	63.5	59.5	55.6	51.6	51.6
50°	7033.2	1913.1	202.4	115.1	83.4	59.5	51.6	47.6	43.7	39.7	39.7
52.5°	7394.4	1901.2	174.6	99.2	67.5	47.6	39.7	35.7	31.8	27.8	27.8
55°	7656.3	1853.6	150.8	83.4	51.6	39.7	31.8	23.8	19.8	19.8	19.8
57.5°	7914.3	1805.9	127.0	67.5	39.7	27.8	19.8	15.9	15.9	15.9	15.9
60°	8315.2	1738.5	111.1	55.6	31.8	19.8	11.9	11.9	7.9	7.9	7.9
62.5°	8803.4	1655.1	91.3	47.6	23.8	15.9	7.9	7.9	0.0	0.0	0.0
65°	9339.2	1508.2	75.4	35.7	19.8	11.9	7.9	0.0	0.0	0.0	0.0
67.5°	9216.2	1210.6	63.5	23.8	15.9	7.9	4.0	0.0	0.0	0.0	0.0
70°	8152.5	817.6	51.6	19.8	11.9	7.9	4.0	0.0	0.0	0.0	0.0
72.5°	6386.2	484.2	35.7	15.9	7.9	4.0	0.0	0.0	0.0	0.0	0.0
75°	4088.1	242.1	23.8	11.9	7.9	4.0	0.0	0.0	0.0	0.0	0.0
77.5°	1369.3	119.1	15.9	7.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	194.5	39.7	7.9	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	43.7	15.9	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.9	7.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	4.0	0.0	0.0	0.0	0.0	0.0	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)