

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: P399705

Luminaire Tested: **ARCH-L-PA3-180-730-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399705
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-PA3-180-730-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 775mA 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: 19436 lumens
Efficiency: N/A
Efficacy: 107.4 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

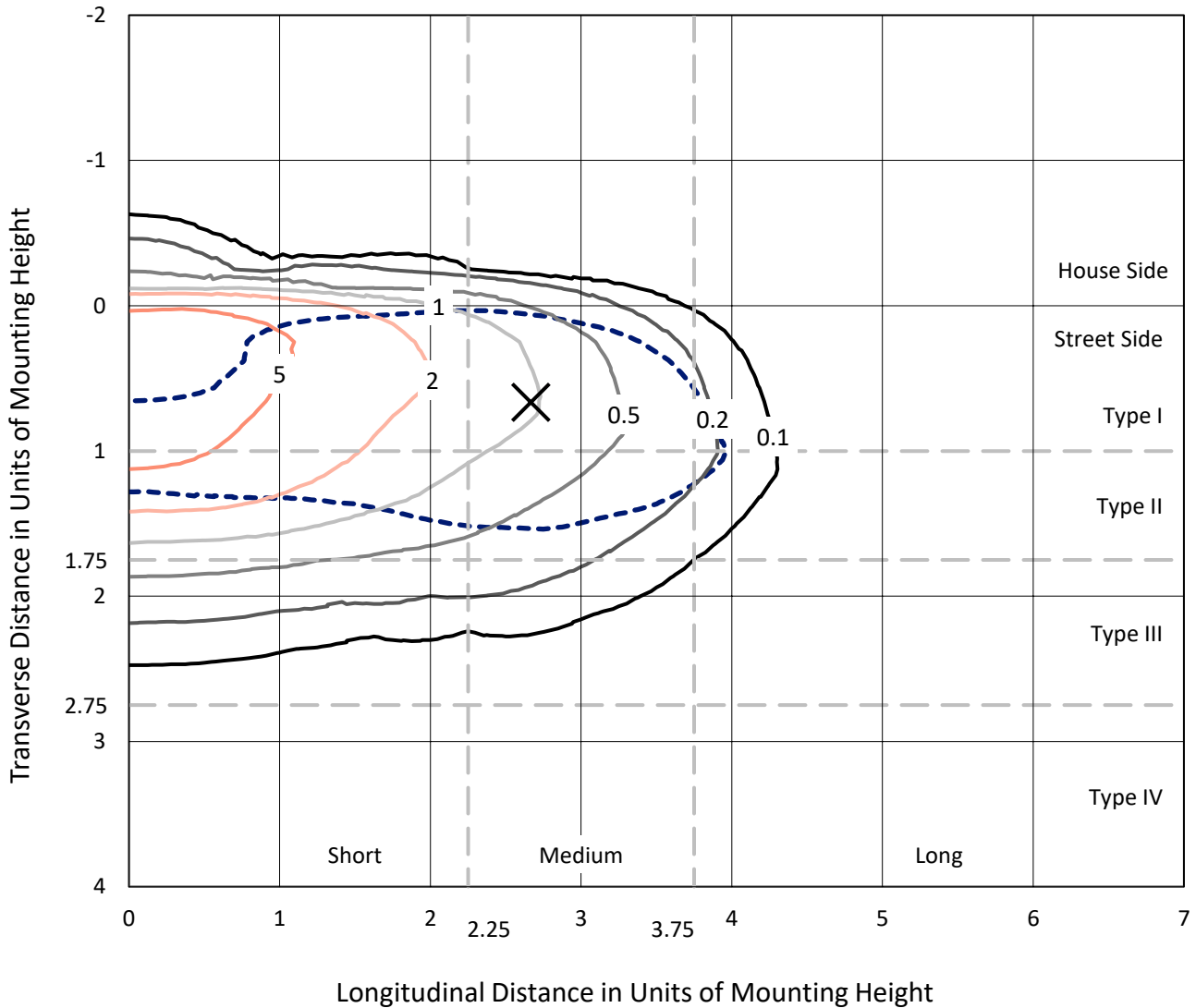
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

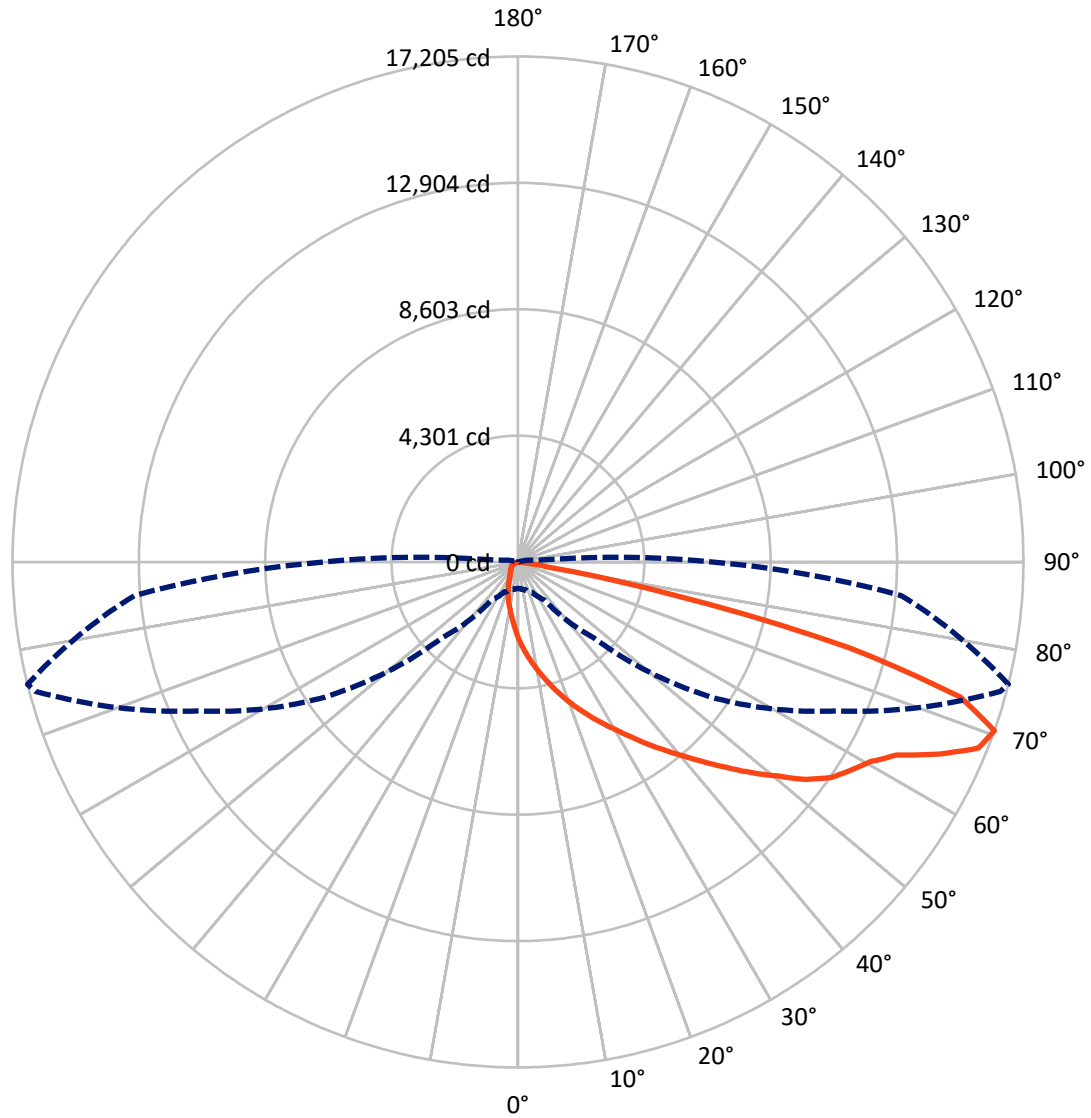
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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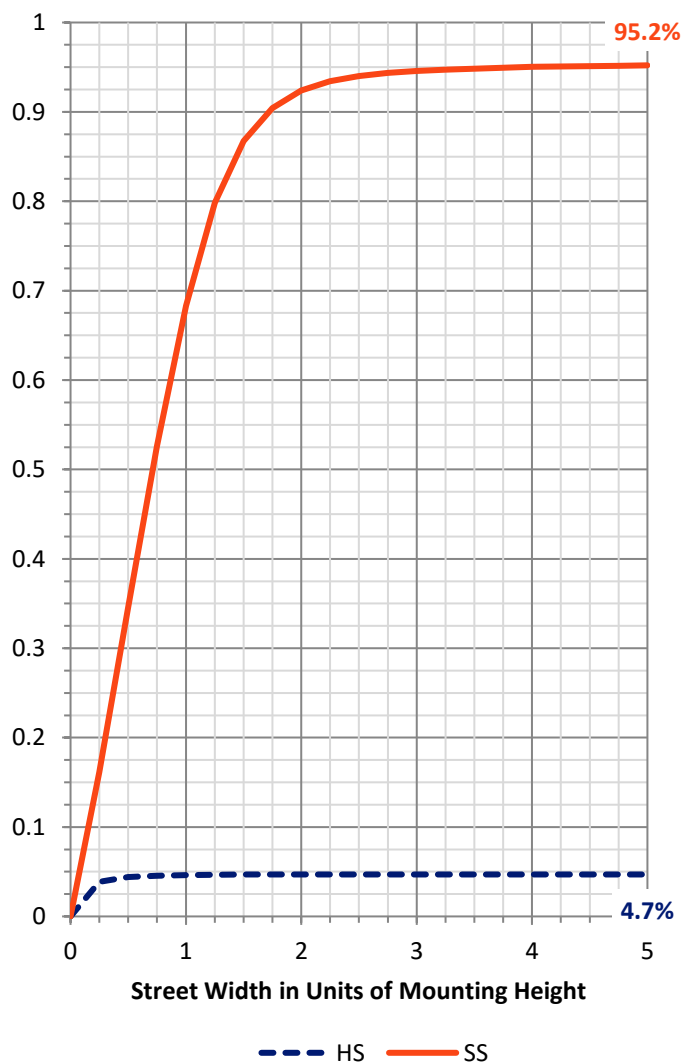
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	916.7	0.0	916.7
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	18519.3	0.0	18519.3
	% Fixture	95.3	0.0	95.3
Total	Lumens	19436.0	0.0	19436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.1	1.3
10°-20°	791.0	4.1
20°-30°	1473.2	7.6
30°-40°	2605.8	13.4
40°-50°	3984.8	20.5
50°-60°	4517.8	23.2
60°-70°	3872.9	19.9
70°-80°	1875.8	9.7
80°-90°	69.6	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°	19436.0	100.0
0°-180°	19436.0	100.0

Coefficient of Utilization

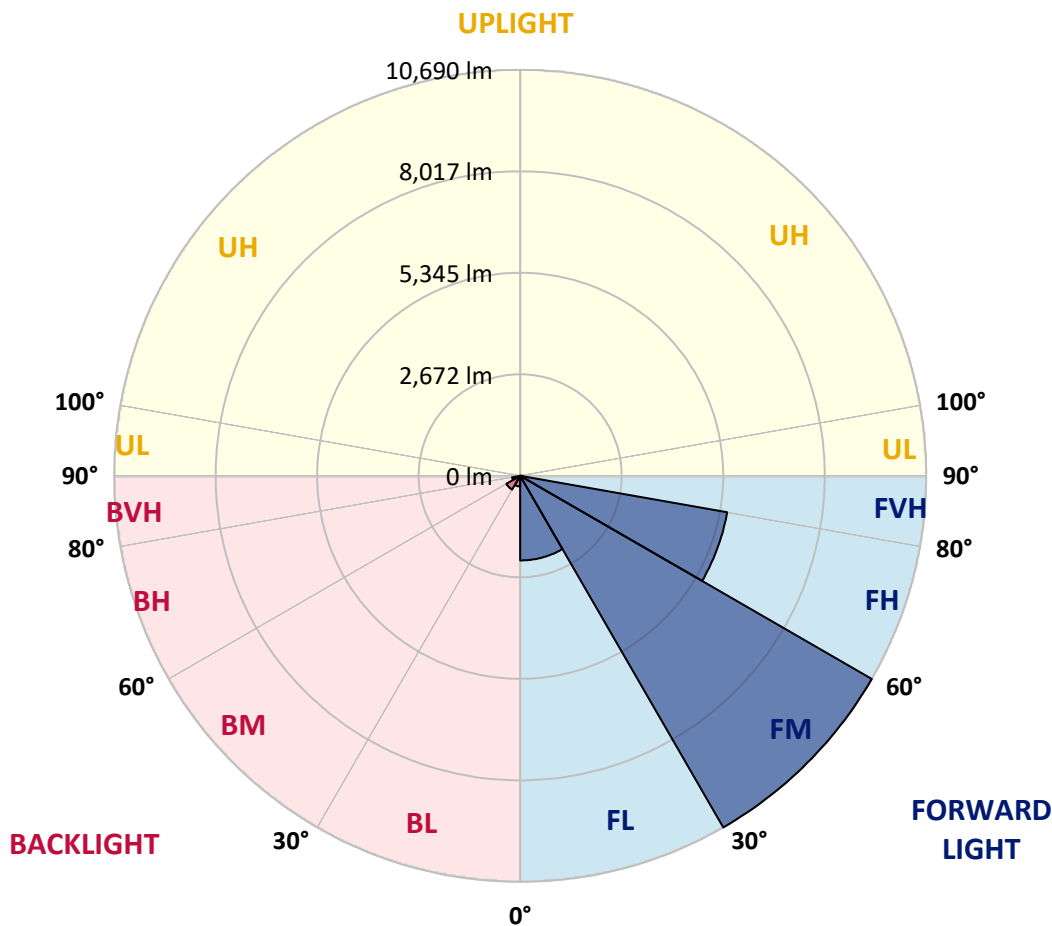


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2228.1	11.5			
FM (30°-60°)	10690.0	55.0			
FH (60°-80°)	5532.9	28.5			G3/7500
FVH (80°-90°)	68.4	0.4			G1/100
BL (0°-30°)	281.2	1.4	B1/500		
BM (30°-60°)	418.4	2.2	B1/1000		
BH (60°-80°)	215.8	1.1	B1/500		G1/500
BVH (80°-90°)	1.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2601.6	2601.6	2601.6	2601.6	2601.6	2601.6	2601.6	2601.6	2601.6	2601.6	2601.6
2.5°	3556.2	3536.8	3517.4	3443.0	3375.0	3313.5	3197.0	3044.9	2909.0	2879.9	2721.4
5°	4177.5	4154.8	4125.7	4051.3	3963.9	3860.4	3688.9	3455.9	3216.4	3164.7	2870.2
7.5°	4598.2	4578.7	4536.7	4501.1	4413.7	4313.4	4122.5	3850.7	3520.6	3455.9	3041.7
10°	4886.2	4873.2	4866.7	4837.6	4772.9	4692.0	4501.1	4216.3	3828.0	3753.6	3222.9
12.5°	4989.7	4989.7	5022.1	5070.6	5080.3	5054.4	4879.7	4594.9	4151.6	4074.0	3436.5
15°	4850.6	4866.7	4937.9	5093.2	5255.0	5361.8	5251.8	4986.5	4507.6	4423.4	3688.9
17.5°	4811.7	4827.9	4876.4	5012.4	5229.2	5513.9	5568.9	5365.1	4844.1	4772.9	3947.8
20°	4921.7	4937.9	4980.0	5096.5	5261.5	5549.5	5779.3	5730.7	5200.0	5125.6	4209.9
22.5°	5183.9	5193.6	5193.6	5284.2	5429.8	5643.3	5911.9	6076.9	5565.7	5484.8	4468.7
25°	5746.9	5727.5	5649.8	5604.5	5698.4	5873.1	6080.2	6381.1	5973.4	5863.4	4747.0
27.5°	6484.7	6549.4	6361.7	6144.9	6073.7	6174.0	6316.4	6649.7	6368.2	6251.7	4999.4
30°	7484.5	7458.7	7212.7	6902.1	6594.7	6559.1	6607.6	6879.4	6763.0	6652.9	5280.9
32.5°	8306.5	8355.0	8096.1	7717.5	7258.0	7041.2	6989.5	7154.5	7183.6	7112.4	5614.2
35°	9151.0	9202.8	8950.4	8529.7	7982.9	7620.5	7471.6	7494.3	7704.6	7614.0	5963.7
37.5°	9908.2	9953.5	9704.4	9274.0	8727.1	8283.8	8070.2	7895.5	8209.4	8128.5	6332.6
40°	10484.2	10490.7	10322.4	9937.3	9419.6	8960.1	8717.4	8374.4	8743.3	8688.3	6717.7
42.5°	10891.9	10904.9	10781.9	10451.8	9972.9	9545.8	9348.4	8940.7	9358.1	9309.6	7164.2
45°	11082.8	11105.5	11092.5	10788.4	10390.4	10021.5	9956.7	9542.6	10031.2	9985.9	7678.7
47.5°	10901.6	10901.6	11066.6	11024.6	10658.9	10413.0	10487.4	10170.3	10762.5	10720.4	8202.9
50°	10147.7	10157.4	10493.9	10976.0	10762.5	10707.5	10940.5	10785.1	11425.8	11451.7	8830.7
52.5°	8167.3	8151.1	9286.9	10212.4	10691.3	10840.1	11357.9	11412.9	12221.9	12299.5	9455.2
55°	6102.8	6093.1	7180.4	8859.8	10193.0	10772.2	11590.9	11972.7	12901.4	12949.9	9921.2
57.5°	4831.1	4805.3	5403.9	7141.5	9066.9	10468.0	11600.6	12079.5	13280.0	13364.1	10374.2
60°	3714.8	3692.1	4138.7	5313.3	7471.6	9659.0	11322.3	12085.9	13645.6	13794.5	10982.5
62.5°	2656.6	2682.5	3025.5	3811.8	5746.9	8516.8	10959.9	12176.6	14296.0	14464.3	11846.5
65°	1792.7	1779.7	2064.5	2595.2	4086.9	6979.8	10403.3	12367.5	15467.4	15761.9	12882.0
67.5°	1245.8	1255.5	1384.9	1689.1	2595.2	5358.6	9477.8	12474.2	16677.6	16907.4	13606.8
70°	899.6	912.5	983.7	1135.8	1585.6	3633.9	8012.0	11985.6	17004.5	17205.1	13102.0
72.5°	592.2	618.0	724.8	805.7	1012.8	2274.8	5902.2	10325.6	15596.9	15745.7	10992.2
75°	320.4	326.8	466.0	601.9	721.6	1417.3	3520.6	6963.6	11668.5	11620.0	7248.3
77.5°	249.2	258.9	288.0	430.4	485.4	779.8	1391.4	3145.3	5526.9	5378.0	2472.2
80°	152.1	158.6	200.6	255.6	339.8	453.0	407.7	854.3	1122.8	1051.7	362.4
82.5°	90.6	97.1	119.7	213.6	268.6	213.6	142.4	207.1	210.3	207.1	90.6
85°	16.2	16.2	84.1	148.8	142.4	61.5	84.1	68.0	61.5	64.7	19.4
87.5°	0.0	0.0	32.4	45.3	64.7	22.7	32.4	16.2	16.2	16.2	9.7
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°	2601.6	2601.6	2601.6	2601.6	2601.6	2601.6	2601.6	2601.6	2601.6	2601.6	2601.6
2.5°	2624.3	2514.3	2287.8	2090.4	1893.0	1747.4	1637.3	1524.1	1485.3	1436.7	1410.8
5°	2669.6	2452.8	2003.0	1643.8	1339.6	1106.7	957.8	867.2	809.0	766.9	757.2
7.5°	2737.5	2404.2	1773.3	1287.9	954.6	721.6	598.6	537.2	504.8	485.4	478.9
10°	2818.4	2362.2	1546.7	1003.1	673.1	508.0	440.1	414.2	401.2	394.8	391.5
12.5°	2931.7	2346.0	1355.8	773.4	508.0	417.4	381.8	365.7	355.9	346.2	343.0
15°	3080.5	2352.5	1181.1	598.6	420.7	372.1	343.0	326.8	313.9	304.2	304.2
17.5°	3235.9	2362.2	1009.6	485.4	381.8	339.8	307.4	284.8	275.0	265.3	262.1
20°	3381.5	2358.9	844.6	414.2	346.2	304.2	271.8	249.2	233.0	223.3	223.3
22.5°	3520.6	2339.5	689.2	372.1	317.1	268.6	233.0	210.3	197.4	187.7	187.7
25°	3669.5	2300.7	563.0	339.8	281.5	236.2	200.6	178.0	168.3	158.6	158.6
27.5°	3786.0	2236.0	459.5	310.6	249.2	203.9	171.5	152.1	142.4	135.9	135.9
30°	3912.2	2142.1	381.8	278.3	216.8	174.7	145.6	129.4	119.7	116.5	116.5
32.5°	4051.3	2038.6	326.8	245.9	184.4	148.8	123.0	113.3	103.5	100.3	100.3
35°	4213.1	1948.0	294.5	213.6	161.8	126.2	106.8	97.1	90.6	90.6	90.6
37.5°	4397.5	1854.1	265.3	187.7	139.1	106.8	90.6	87.4	84.1	80.9	80.9
40°	4598.2	1753.8	239.5	165.0	119.7	90.6	77.7	77.7	74.4	74.4	74.4
42.5°	4824.7	1666.5	216.8	145.6	103.5	77.7	68.0	68.0	64.7	64.7	64.7
45°	5070.6	1585.6	197.4	129.4	90.6	68.0	61.5	58.2	55.0	55.0	55.0
47.5°	5361.8	1540.3	181.2	113.3	77.7	58.2	51.8	48.5	45.3	42.1	42.1
50°	5733.9	1559.7	165.0	93.8	68.0	48.5	42.1	38.8	35.6	32.4	32.4
52.5°	6028.4	1550.0	142.4	80.9	55.0	38.8	32.4	29.1	25.9	22.7	22.7
55°	6242.0	1511.1	123.0	68.0	42.1	32.4	25.9	19.4	16.2	16.2	16.2
57.5°	6452.3	1472.3	103.5	55.0	32.4	22.7	16.2	12.9	12.9	12.9	12.9
60°	6779.1	1417.3	90.6	45.3	25.9	16.2	9.7	9.7	6.5	6.5	6.5
62.5°	7177.1	1349.4	74.4	38.8	19.4	12.9	6.5	6.5	0.0	0.0	0.0
65°	7614.0	1229.6	61.5	29.1	16.2	9.7	6.5	0.0	0.0	0.0	0.0
67.5°	7513.7	986.9	51.8	19.4	12.9	6.5	3.2	0.0	0.0	0.0	0.0
70°	6646.5	666.6	42.1	16.2	9.7	6.5	3.2	0.0	0.0	0.0	0.0
72.5°	5206.5	394.8	29.1	12.9	6.5	3.2	0.0	0.0	0.0	0.0	0.0
75°	3332.9	197.4	19.4	9.7	6.5	3.2	0.0	0.0	0.0	0.0	0.0
77.5°	1116.4	97.1	12.9	6.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	158.6	32.4	6.5	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.6	12.9	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.9	6.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	3.2	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)