

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: P399858

Luminaire Tested: **ARCH-L-PA3-200-740-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399858
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-PA3-200-740-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 860mA 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: 23157 lumens
Efficiency: N/A
Efficacy: 115.2 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

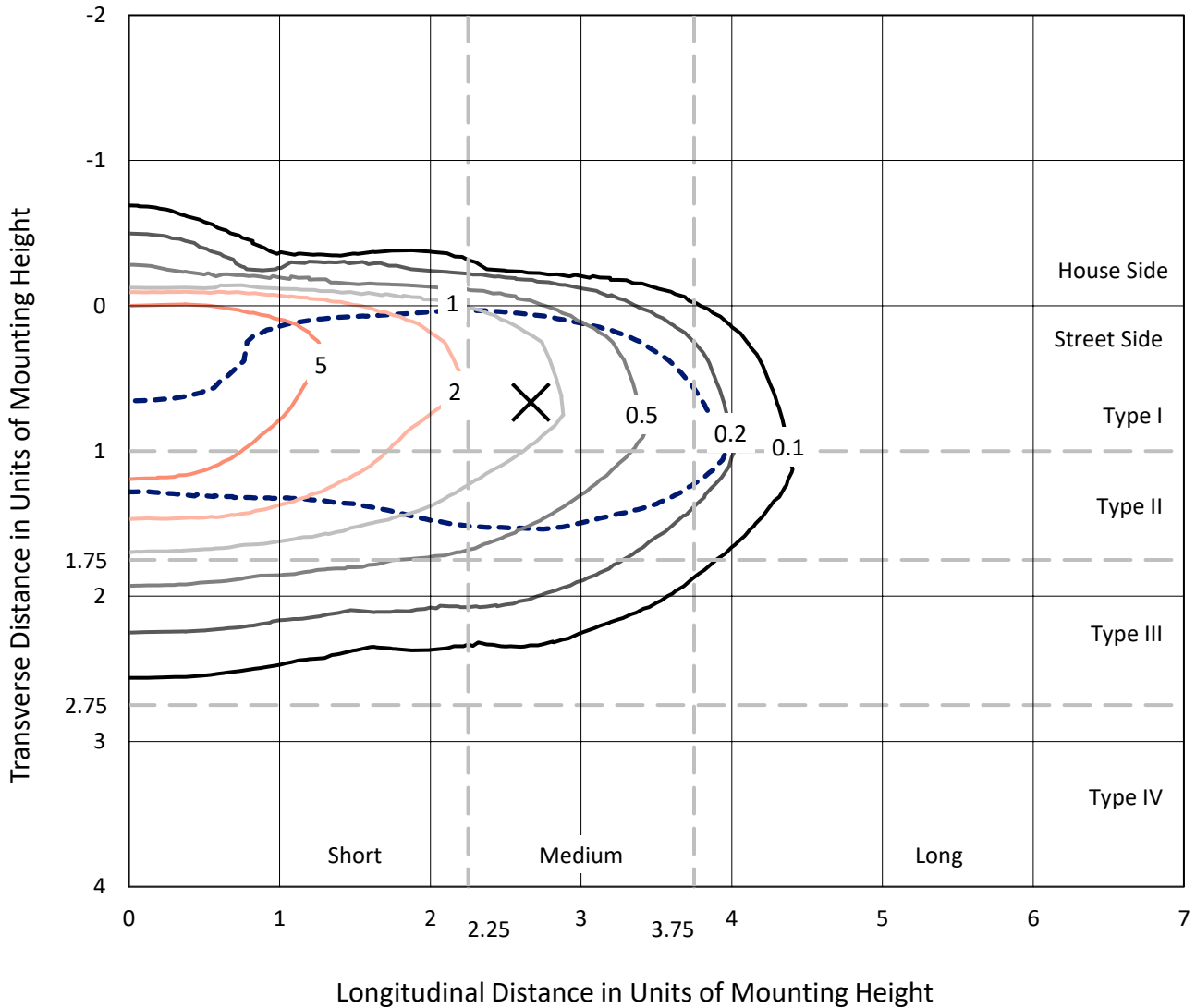
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399858
 CATALOG NUMBER: ARCH-L-PA3-200-740-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

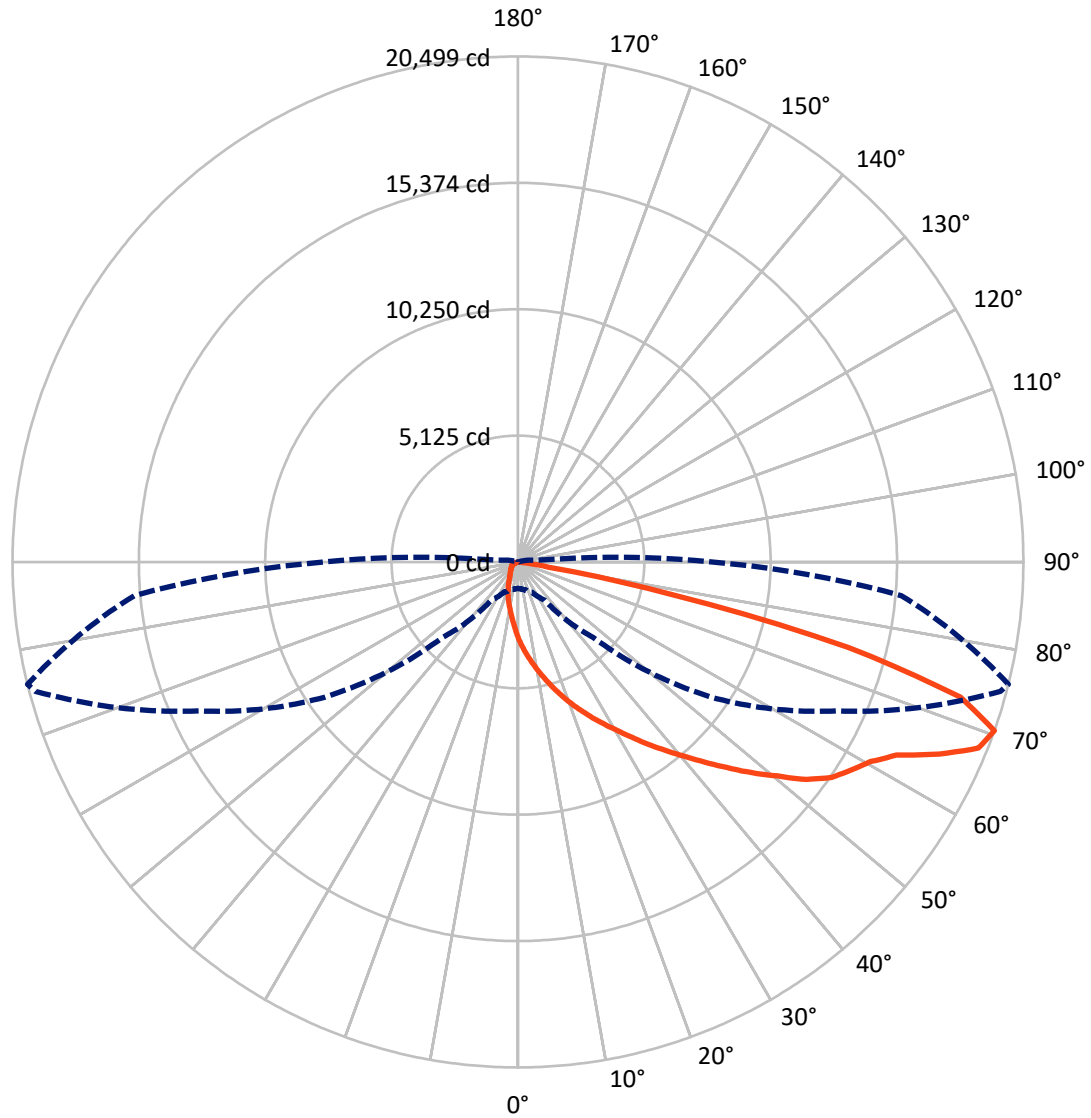
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P399858
CATALOG NUMBER: ARCH-L-PA3-200-740-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P399858
 CATALOG NUMBER: ARCH-L-PA3-200-740-U-T2R-HSS

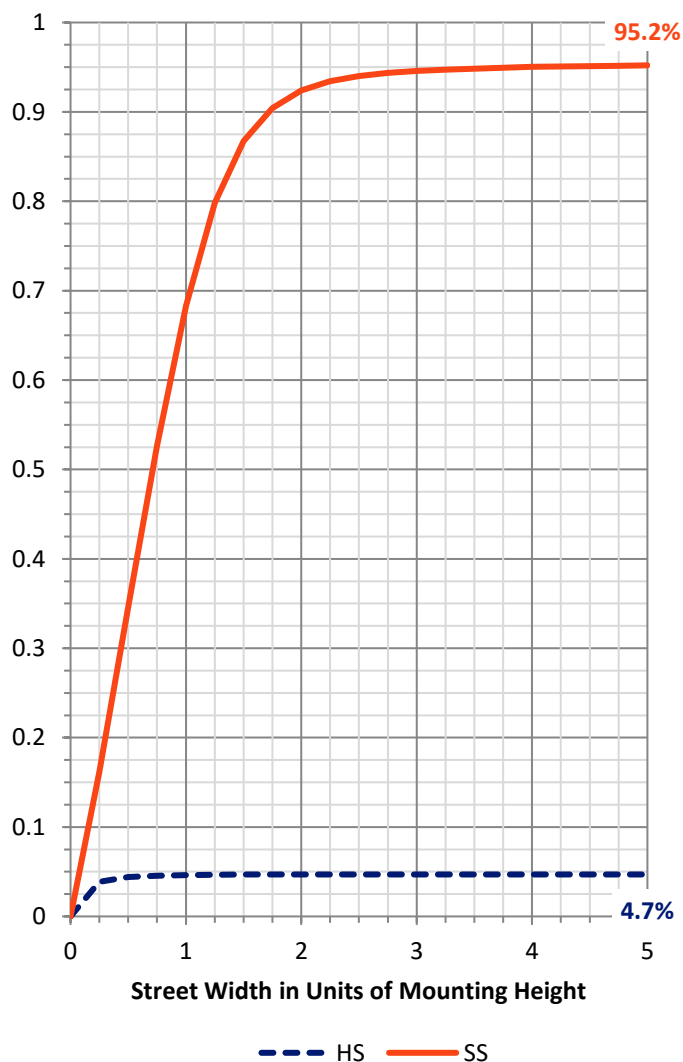
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1092.2	0.0	1092.2
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	22064.8	0.0	22064.8
	% Fixture	95.3	0.0	95.3
Total	Lumens	23157.0	0.0	23157.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.0	1.3
10°-20°	942.5	4.1
20°-30°	1755.2	7.6
30°-40°	3104.6	13.4
40°-50°	4747.7	20.5
50°-60°	5382.8	23.2
60°-70°	4614.4	19.9
70°-80°	2234.9	9.7
80°-90°	82.9	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°	23157.0	100.0
0°-180°	23157.0	100.0

Coefficient of Utilization

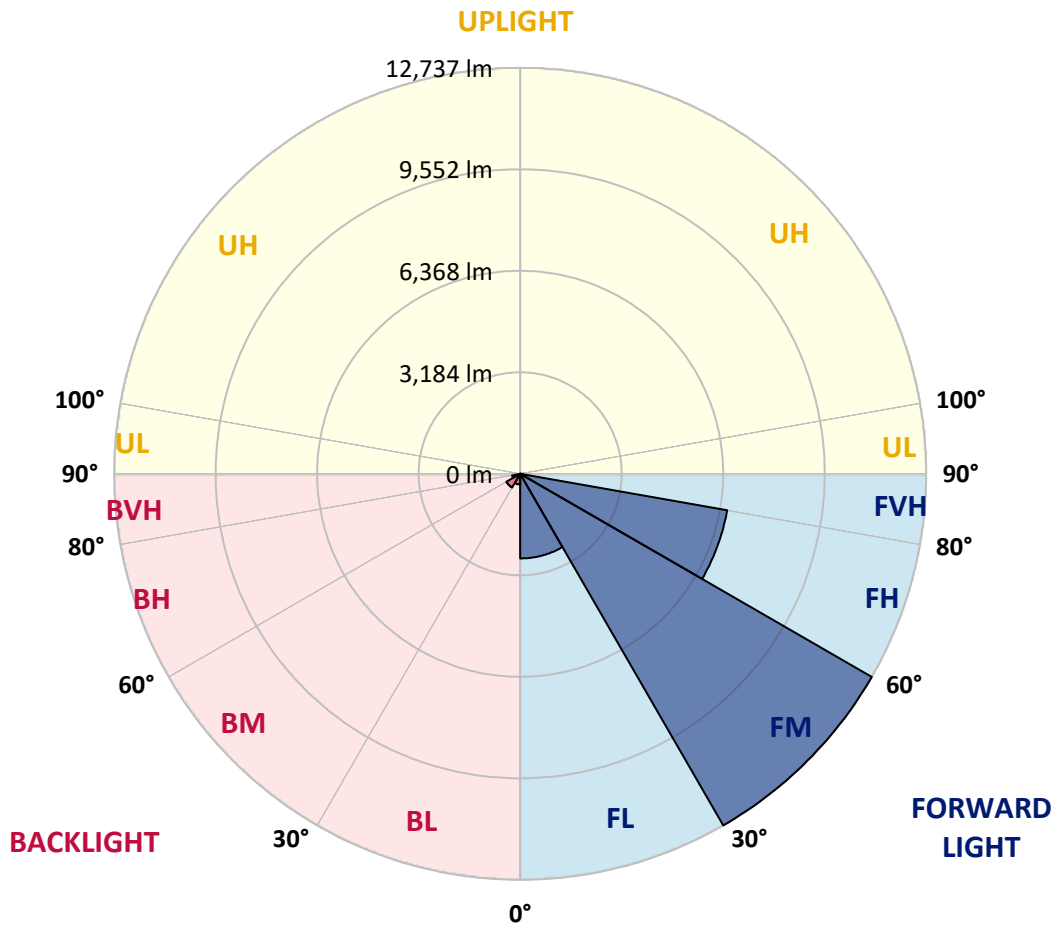


REPORT NUMBER: P399858
 CATALOG NUMBER: ARCH-L-PA3-200-740-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2654.7	11.5			
FM (30°-60°)	12736.5	55.0			
FH (60°-80°)	6592.1	28.5			G3/7500
FVH (80°-90°)	81.5	0.4			G1/100
BL (0°-30°)	335.0	1.4	B1/500		
BM (30°-60°)	498.6	2.2	B1/1000		
BH (60°-80°)	257.2	1.1	B1/500		G1/500
BVH (80°-90°)	1.4	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: P399858

CATALOG NUMBER: ARCH-L-PA3-200-740-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3099.7	3099.7	3099.7	3099.7	3099.7	3099.7	3099.7	3099.7	3099.7	3099.7	3099.7
2.5°	4237.0	4213.9	4190.8	4102.1	4021.1	3947.9	3809.1	3627.9	3466.0	3431.3	3242.4
5°	4977.3	4950.3	4915.6	4826.9	4722.8	4599.5	4395.1	4117.5	3832.2	3770.5	3419.7
7.5°	5478.5	5455.3	5405.2	5362.8	5258.7	5139.2	4911.7	4587.9	4194.6	4117.5	3624.0
10°	5821.6	5806.2	5798.5	5763.8	5686.7	5590.3	5362.8	5023.5	4560.9	4472.2	3839.9
12.5°	5945.0	5945.0	5983.5	6041.4	6052.9	6022.1	5813.9	5474.6	4946.4	4853.9	4094.4
15°	5779.2	5798.5	5883.3	6068.3	6261.1	6388.3	6257.3	5941.1	5370.5	5270.3	4395.1
17.5°	5732.9	5752.2	5810.0	5972.0	6230.3	6569.5	6635.1	6392.2	5771.5	5686.7	4703.5
20°	5864.0	5883.3	5933.4	6072.2	6268.8	6612.0	6885.7	6827.9	6195.6	6106.9	5015.8
22.5°	6176.3	6187.9	6187.9	6295.8	6469.3	6723.8	7043.8	7240.4	6631.2	6534.8	5324.3
25°	6847.1	6824.0	6731.5	6677.5	6789.3	6997.5	7244.2	7602.8	7117.0	6985.9	5655.8
27.5°	7726.2	7803.3	7579.6	7321.3	7236.5	7356.0	7525.7	7922.8	7587.4	7448.6	5956.5
30°	8917.5	8886.6	8593.6	8223.5	7857.2	7814.8	7872.7	8196.5	8057.7	7926.6	6292.0
32.5°	9896.7	9954.6	9646.1	9195.0	8647.6	8389.3	8327.6	8524.2	8558.9	8474.1	6689.1
35°	10903.0	10964.7	10663.9	10162.7	9511.2	9079.4	8902.0	8929.0	9179.6	9071.7	7105.4
37.5°	11805.1	11859.1	11562.2	11049.5	10397.9	9869.7	9615.3	9407.1	9781.1	9684.7	7544.9
40°	12491.4	12499.1	12298.6	11839.8	11223.0	10675.5	10386.4	9977.7	10417.2	10351.7	8003.7
42.5°	12977.2	12992.6	12846.1	12452.8	11882.2	11373.3	11138.1	10652.4	11149.7	11091.9	8535.8
45°	13204.6	13231.6	13216.2	12853.8	12379.6	11940.1	11863.0	11369.5	11951.6	11897.7	9148.8
47.5°	12988.7	12988.7	13185.3	13135.2	12699.6	12406.6	12495.2	12117.4	12822.9	12772.8	9773.3
50°	12090.4	12102.0	12502.9	13077.4	12822.9	12757.4	13035.0	12849.9	13613.3	13644.1	10521.3
52.5°	9730.9	9711.7	11064.9	12167.5	12738.1	12915.5	13532.3	13597.9	14561.7	14654.2	11265.4
55°	7271.2	7259.7	8555.1	10556.0	12144.4	12834.5	13809.9	14264.8	15371.3	15429.2	11820.5
57.5°	5756.1	5725.2	6438.5	8508.8	10802.7	12472.1	13821.5	14392.1	15822.4	15922.7	12360.3
60°	4426.0	4399.0	4931.0	6330.5	8902.0	11508.3	13489.9	14399.8	16258.1	16435.4	13085.1
62.5°	3165.3	3196.1	3604.8	4541.6	6847.1	10147.3	13058.1	14507.7	17033.0	17233.5	14114.5
65°	2135.9	2120.5	2459.7	3092.0	4869.3	8316.0	12395.0	14735.2	18428.6	18779.5	15348.2
67.5°	1484.3	1495.9	1650.1	2012.5	3092.0	6384.5	11292.4	14862.4	19870.5	20144.3	16211.8
70°	1071.8	1087.2	1172.0	1353.2	1889.1	4329.6	9545.9	14280.3	20259.9	20499.0	15610.4
72.5°	705.5	736.4	863.6	960.0	1206.7	2710.3	7032.2	12302.5	18582.9	18760.2	13096.7
75°	381.7	389.4	555.2	717.1	859.7	1688.6	4194.6	8296.7	13902.4	13844.6	8636.0
77.5°	296.9	308.4	343.1	512.8	578.3	929.1	1657.8	3747.4	6585.0	6407.6	2945.5
80°	181.2	188.9	239.0	304.6	404.8	539.8	485.8	1017.8	1337.8	1253.0	431.8
82.5°	108.0	115.7	142.6	254.5	320.0	254.5	169.6	246.7	250.6	246.7	108.0
85°	19.3	19.3	100.2	177.3	169.6	73.3	100.2	81.0	73.3	77.1	23.1
87.5°	0.0	0.0	38.6	54.0	77.1	27.0	38.6	19.3	19.3	19.3	11.6
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: P399858

CATALOG NUMBER: ARCH-L-PA3-200-740-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3099.7	3099.7	3099.7	3099.7	3099.7	3099.7	3099.7	3099.7	3099.7	3099.7	3099.7
2.5°	3126.7	2995.6	2725.7	2490.6	2255.4	2081.9	1950.8	1815.9	1769.6	1711.8	1680.9
5°	3180.7	2922.4	2386.5	1958.5	1596.1	1318.5	1141.2	1033.2	963.8	913.7	902.2
7.5°	3261.6	2864.5	2112.7	1534.4	1137.3	859.7	713.2	640.0	601.4	578.3	570.6
10°	3358.0	2814.4	1842.9	1195.2	801.9	605.3	524.3	493.5	478.1	470.4	466.5
12.5°	3493.0	2795.1	1615.4	921.4	605.3	497.3	454.9	435.7	424.1	412.5	408.7
15°	3670.3	2802.9	1407.2	713.2	501.2	443.4	408.7	389.4	374.0	362.4	362.4
17.5°	3855.4	2814.4	1202.9	578.3	454.9	404.8	366.3	339.3	327.7	316.1	312.3
20°	4028.9	2810.6	1006.3	493.5	412.5	362.4	323.9	296.9	277.6	266.0	266.0
22.5°	4194.6	2787.4	821.2	443.4	377.8	320.0	277.6	250.6	235.2	223.6	223.6
25°	4372.0	2741.2	670.8	404.8	335.4	281.4	239.0	212.0	200.5	188.9	188.9
27.5°	4510.8	2664.1	547.5	370.1	296.9	242.9	204.3	181.2	169.6	161.9	161.9
30°	4661.1	2552.3	454.9	331.6	258.3	208.2	173.5	154.2	142.6	138.8	138.8
32.5°	4826.9	2428.9	389.4	293.0	219.8	177.3	146.5	134.9	123.4	119.5	119.5
35°	5019.7	2320.9	350.8	254.5	192.8	150.4	127.2	115.7	108.0	108.0	108.0
37.5°	5239.4	2209.1	316.1	223.6	165.8	127.2	108.0	104.1	100.2	96.4	96.4
40°	5478.5	2089.6	285.3	196.6	142.6	108.0	92.5	92.5	88.7	88.7	88.7
42.5°	5748.3	1985.5	258.3	173.5	123.4	92.5	81.0	81.0	77.1	77.1	77.1
45°	6041.4	1889.1	235.2	154.2	108.0	81.0	73.3	69.4	65.5	65.5	65.5
47.5°	6388.3	1835.2	215.9	134.9	92.5	69.4	61.7	57.8	54.0	50.1	50.1
50°	6831.7	1858.3	196.6	111.8	81.0	57.8	50.1	46.3	42.4	38.6	38.6
52.5°	7182.5	1846.7	169.6	96.4	65.5	46.3	38.6	34.7	30.8	27.0	27.0
55°	7437.0	1800.5	146.5	81.0	50.1	38.6	30.8	23.1	19.3	19.3	19.3
57.5°	7687.6	1754.2	123.4	65.5	38.6	27.0	19.3	15.4	15.4	15.4	15.4
60°	8077.0	1688.6	108.0	54.0	30.8	19.3	11.6	11.6	7.7	7.7	7.7
62.5°	8551.2	1607.7	88.7	46.3	23.1	15.4	7.7	7.7	0.0	0.0	0.0
65°	9071.7	1465.0	73.3	34.7	19.3	11.6	7.7	0.0	0.0	0.0	0.0
67.5°	8952.2	1175.9	61.7	23.1	15.4	7.7	3.9	0.0	0.0	0.0	0.0
70°	7918.9	794.2	50.1	19.3	11.6	7.7	3.9	0.0	0.0	0.0	0.0
72.5°	6203.3	470.4	34.7	15.4	7.7	3.9	0.0	0.0	0.0	0.0	0.0
75°	3971.0	235.2	23.1	11.6	7.7	3.9	0.0	0.0	0.0	0.0	0.0
77.5°	1330.1	115.7	15.4	7.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	188.9	38.6	7.7	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	42.4	15.4	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.4	7.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.7	3.9	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)