

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: P399849

Luminaire Tested: **ARCH-L-PA3-200-730-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399849
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-PA3-200-730-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 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: 21088 lumens
Efficiency: N/A
Efficacy: 104.9 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

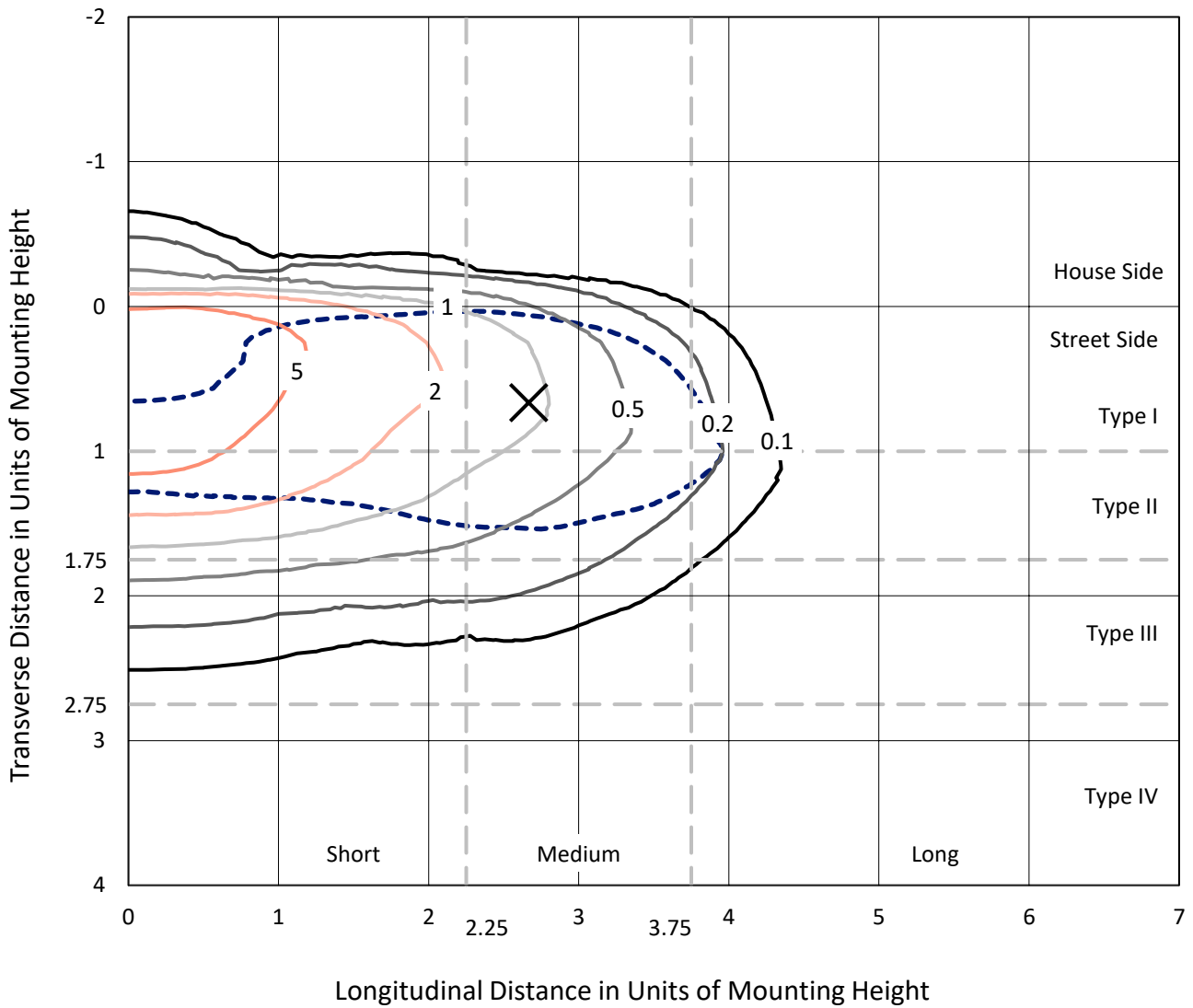
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

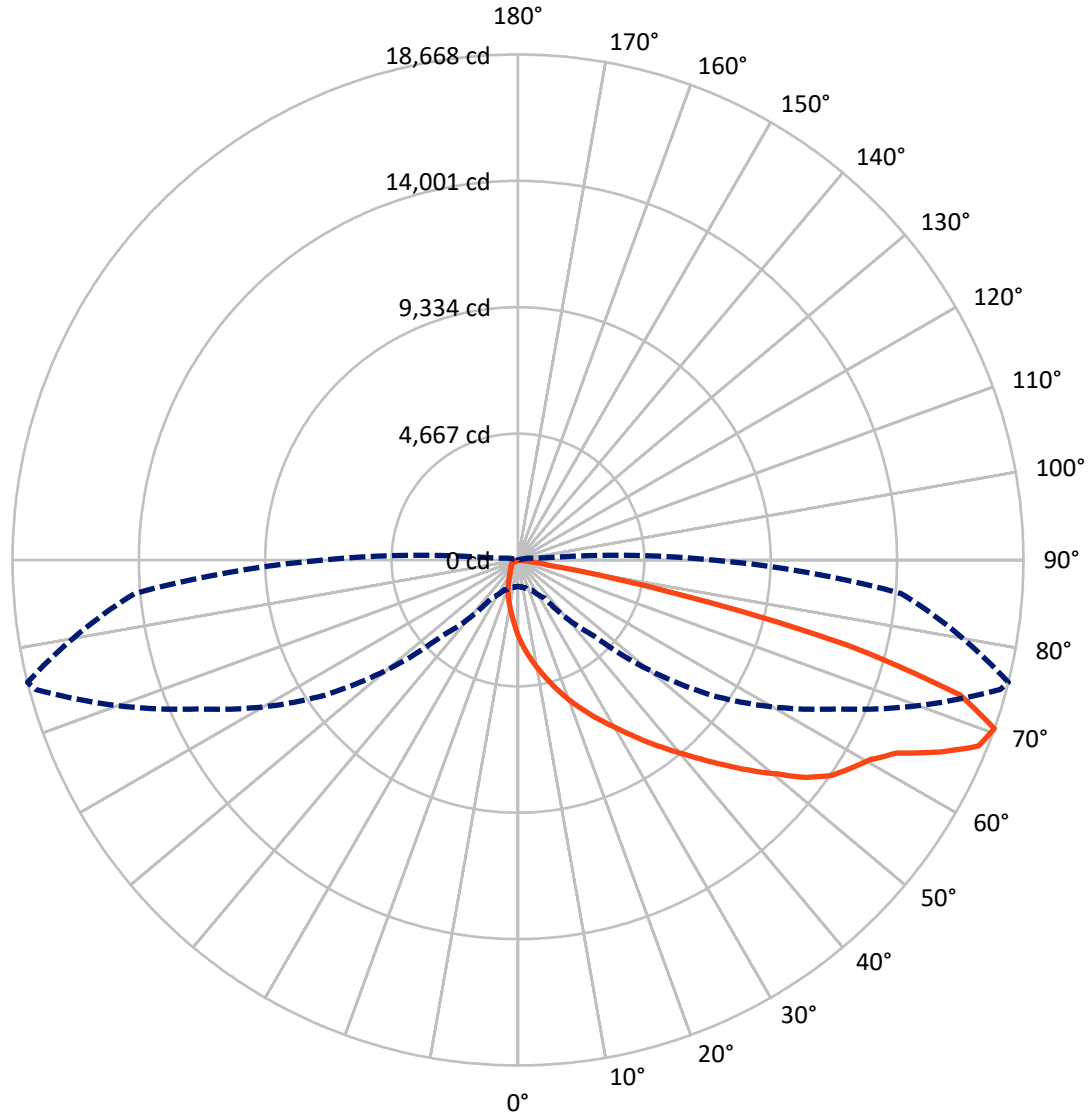
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P399849
CATALOG NUMBER: ARCH-L-PA3-200-730-U-T2R-HSS

Luminous Intensity Polar Plot



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

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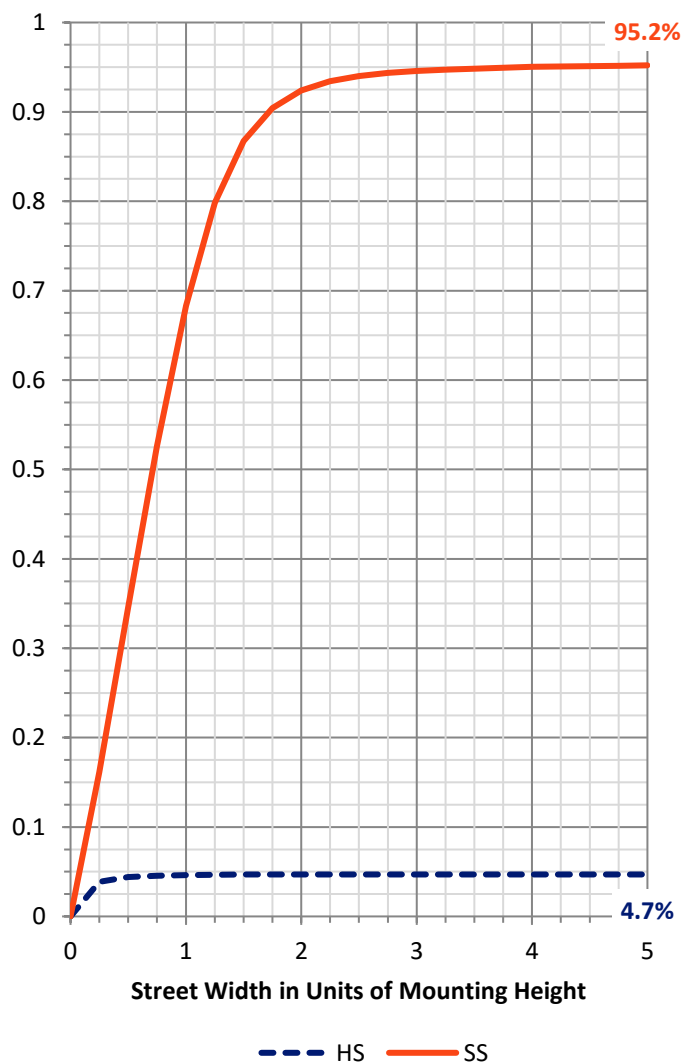
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	994.6	0.0	994.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	20093.4	0.0	20093.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	21088.0	0.0	21088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.9	1.3
10°-20°	858.3	4.1
20°-30°	1598.4	7.6
30°-40°	2827.2	13.4
40°-50°	4323.5	20.5
50°-60°	4901.8	23.2
60°-70°	4202.1	19.9
70°-80°	2035.2	9.7
80°-90°	75.5	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°	21088.0	100.0
0°-180°	21088.0	100.0

Coefficient of Utilization

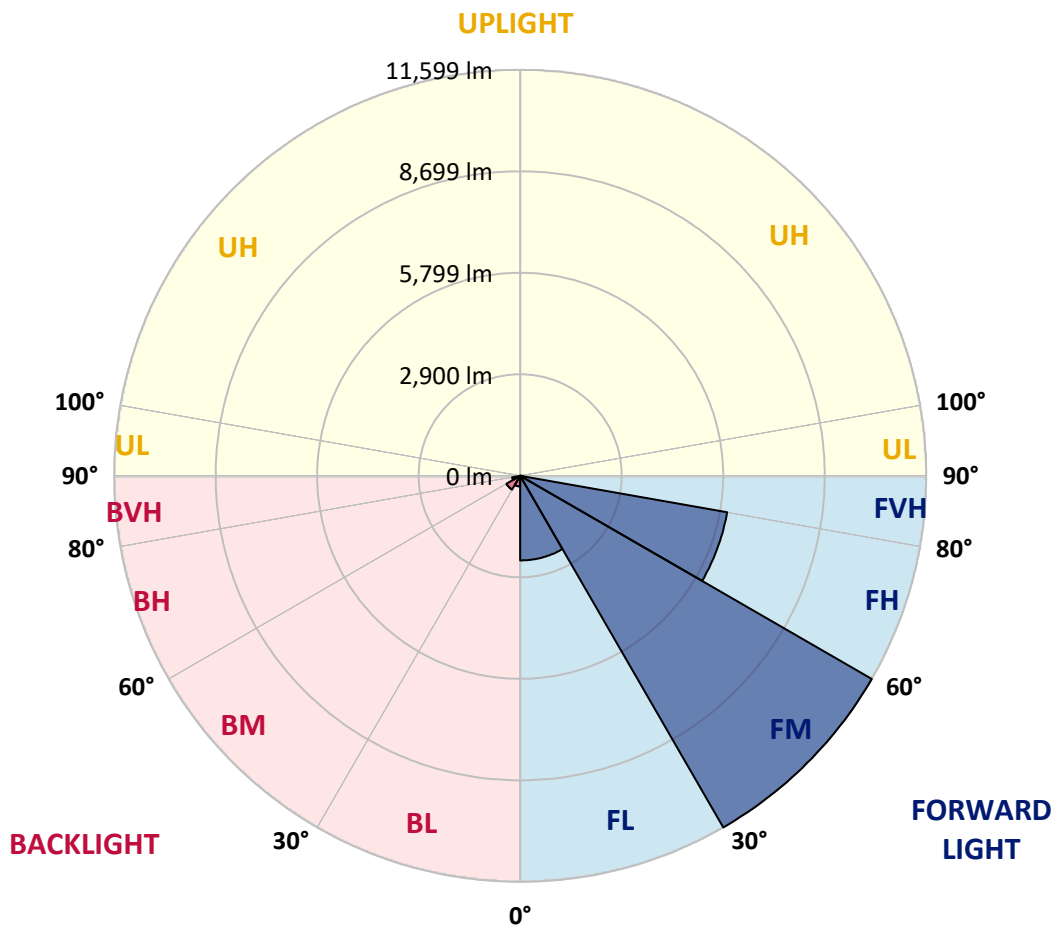


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2417.5	11.5			
FM (30°-60°)	11598.6	55.0			
FH (60°-80°)	6003.1	28.5			G3/7500
FVH (80°-90°)	74.2	0.4			G1/100
BL (0°-30°)	305.1	1.4	B1/500		
BM (30°-60°)	454.0	2.2	B1/1000		
BH (60°-80°)	234.2	1.1	B1/500		G1/500
BVH (80°-90°)	1.3	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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CATALOG NUMBER: ARCH-L-PA3-200-730-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2822.8	2822.8	2822.8	2822.8	2822.8	2822.8	2822.8	2822.8	2822.8	2822.8	2822.8
2.5°	3858.5	3837.4	3816.3	3735.6	3661.9	3595.2	3468.8	3303.8	3156.3	3124.7	2952.7
5°	4532.6	4508.0	4476.4	4395.6	4300.9	4188.5	4002.4	3749.6	3489.8	3433.7	3114.2
7.5°	4989.0	4967.9	4922.3	4883.7	4788.9	4680.0	4472.9	4178.0	3819.9	3749.6	3300.2
10°	5301.5	5287.4	5280.4	5248.8	5178.6	5090.8	4883.7	4574.7	4153.4	4072.6	3496.9
12.5°	5413.8	5413.8	5448.9	5501.6	5512.1	5484.0	5294.4	4985.5	4504.5	4420.2	3728.6
15°	5262.8	5280.4	5357.6	5526.2	5701.7	5817.6	5698.2	5410.3	4890.7	4799.4	4002.4
17.5°	5220.7	5238.3	5290.9	5438.4	5673.6	5982.6	6042.3	5821.1	5255.8	5178.6	4283.3
20°	5340.1	5357.6	5403.3	5529.7	5708.7	6021.2	6270.5	6217.8	5642.0	5561.3	4567.7
22.5°	5624.5	5635.0	5635.0	5733.3	5891.3	6123.0	6414.4	6593.5	6038.7	5951.0	4848.6
25°	6235.4	6214.3	6130.0	6080.9	6182.7	6372.3	6597.0	6923.5	6481.1	6361.8	5150.5
27.5°	7035.8	7106.1	6902.4	6667.2	6590.0	6698.8	6853.3	7214.9	6909.5	6783.1	5424.3
30°	8120.7	8092.6	7825.8	7488.8	7155.2	7116.6	7169.3	7464.2	7337.8	7218.4	5729.8
32.5°	9012.5	9065.1	8784.3	8373.5	7875.0	7639.7	7583.5	7762.6	7794.2	7717.0	6091.4
35°	9928.8	9985.0	9711.2	9254.7	8661.4	8268.2	8106.7	8131.2	8359.5	8261.1	6470.6
37.5°	10750.4	10799.5	10529.2	10062.2	9468.9	8987.9	8756.2	8566.6	8907.2	8819.4	6870.8
40°	11375.3	11382.3	11199.8	10782.0	10220.2	9721.7	9458.4	9086.2	9486.5	9426.8	7288.6
42.5°	11817.7	11831.7	11698.3	11340.2	10820.6	10357.2	10143.0	9700.6	10153.5	10100.9	7773.1
45°	12024.8	12049.4	12035.4	11705.3	11273.5	10873.3	10803.0	10353.6	10883.8	10834.6	8331.4
47.5°	11828.2	11828.2	12007.3	11961.6	11564.9	11298.1	11378.8	11034.8	11677.3	11631.6	8900.1
50°	11010.2	11020.7	11385.9	11909.0	11677.3	11617.6	11870.4	11701.8	12397.0	12425.1	9581.2
52.5°	8861.5	8844.0	10076.3	11080.4	11600.0	11761.5	12323.3	12382.9	13260.7	13344.9	10258.9
55°	6621.6	6611.0	7790.7	9612.8	11059.3	11687.8	12576.0	12990.3	13998.0	14050.6	10764.4
57.5°	5241.8	5213.7	5863.2	7748.6	9837.5	11357.8	12586.6	13106.2	14408.7	14500.0	11255.9
60°	4030.5	4005.9	4490.4	5764.9	8106.7	10480.0	12284.6	13113.2	14805.5	14967.0	11916.0
62.5°	2882.4	2910.5	3282.7	4135.8	6235.4	9240.7	11891.4	13211.5	15511.2	15693.7	12853.4
65°	1945.0	1931.0	2240.0	2815.7	4434.3	7573.0	11287.5	13418.7	16782.1	17101.6	13976.9
67.5°	1351.7	1362.2	1502.7	1832.7	2815.7	5814.1	10283.4	13534.5	18095.2	18344.5	14763.3
70°	976.0	990.1	1067.3	1232.3	1720.3	3942.7	8693.0	13004.4	18449.8	18667.5	14215.6
72.5°	642.5	670.6	786.4	874.2	1098.9	2468.2	6403.9	11203.3	16922.5	17084.0	11926.5
75°	347.6	354.6	505.6	653.0	782.9	1537.8	3819.9	7555.5	12660.3	12607.6	7864.4
77.5°	270.3	280.9	312.5	466.9	526.6	846.1	1509.7	3412.6	5996.6	5835.1	2682.3
80°	165.0	172.0	217.7	277.4	368.6	491.5	442.4	926.9	1218.3	1141.0	393.2
82.5°	98.3	105.3	129.9	231.7	291.4	231.7	154.5	224.7	228.2	224.7	98.3
85°	17.6	17.6	91.3	161.5	154.5	66.7	91.3	73.7	66.7	70.2	21.1
87.5°	0.0	0.0	35.1	49.2	70.2	24.6	35.1	17.6	17.6	17.6	10.5
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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 CATALOG NUMBER: ARCH-L-PA3-200-730-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2822.8	2822.8	2822.8	2822.8	2822.8	2822.8	2822.8	2822.8	2822.8	2822.8	2822.8
2.5°	2847.3	2728.0	2482.2	2268.0	2053.9	1895.9	1776.5	1653.6	1611.5	1558.8	1530.8
5°	2896.5	2661.3	2173.2	1783.5	1453.5	1200.7	1039.2	940.9	877.7	832.1	821.6
7.5°	2970.2	2608.6	1924.0	1397.3	1035.7	782.9	649.5	582.8	547.7	526.6	519.6
10°	3058.0	2563.0	1678.2	1088.4	730.3	551.2	477.5	449.4	435.4	428.3	424.8
12.5°	3180.9	2545.4	1471.1	839.1	551.2	452.9	414.3	396.7	386.2	375.7	372.2
15°	3342.4	2552.4	1281.5	649.5	456.4	403.8	372.2	354.6	340.6	330.0	330.0
17.5°	3510.9	2563.0	1095.4	526.6	414.3	368.6	333.5	309.0	298.4	287.9	284.4
20°	3668.9	2559.4	916.3	449.4	375.7	330.0	294.9	270.3	252.8	242.3	242.3
22.5°	3819.9	2538.4	747.8	403.8	344.1	291.4	252.8	228.2	214.2	203.6	203.6
25°	3981.4	2496.3	610.9	368.6	305.4	256.3	217.7	193.1	182.6	172.0	172.0
27.5°	4107.8	2426.0	498.5	337.0	270.3	221.2	186.1	165.0	154.5	147.5	147.5
30°	4244.7	2324.2	414.3	301.9	235.2	189.6	158.0	140.4	129.9	126.4	126.4
32.5°	4395.6	2211.9	354.6	266.8	200.1	161.5	133.4	122.9	112.3	108.8	108.8
35°	4571.2	2113.6	319.5	231.7	175.5	136.9	115.9	105.3	98.3	98.3	98.3
37.5°	4771.3	2011.7	287.9	203.6	151.0	115.9	98.3	94.8	91.3	87.8	87.8
40°	4989.0	1902.9	259.8	179.1	129.9	98.3	84.3	84.3	80.8	80.8	80.8
42.5°	5234.8	1808.1	235.2	158.0	112.3	84.3	73.7	73.7	70.2	70.2	70.2
45°	5501.6	1720.3	214.2	140.4	98.3	73.7	66.7	63.2	59.7	59.7	59.7
47.5°	5817.6	1671.2	196.6	122.9	84.3	63.2	56.2	52.7	49.2	45.6	45.6
50°	6221.3	1692.3	179.1	101.8	73.7	52.7	45.6	42.1	38.6	35.1	35.1
52.5°	6540.8	1681.7	154.5	87.8	59.7	42.1	35.1	31.6	28.1	24.6	24.6
55°	6772.5	1639.6	133.4	73.7	45.6	35.1	28.1	21.1	17.6	17.6	17.6
57.5°	7000.7	1597.5	112.3	59.7	35.1	24.6	17.6	14.0	14.0	14.0	14.0
60°	7355.3	1537.8	98.3	49.2	28.1	17.6	10.5	10.5	7.0	7.0	7.0
62.5°	7787.2	1464.0	80.8	42.1	21.1	14.0	7.0	7.0	0.0	0.0	0.0
65°	8261.1	1334.1	66.7	31.6	17.6	10.5	7.0	0.0	0.0	0.0	0.0
67.5°	8152.3	1070.8	56.2	21.1	14.0	7.0	3.5	0.0	0.0	0.0	0.0
70°	7211.4	723.2	45.6	17.6	10.5	7.0	3.5	0.0	0.0	0.0	0.0
72.5°	5649.0	428.3	31.6	14.0	7.0	3.5	0.0	0.0	0.0	0.0	0.0
75°	3616.2	214.2	21.1	10.5	7.0	3.5	0.0	0.0	0.0	0.0	0.0
77.5°	1211.3	105.3	14.0	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	172.0	35.1	7.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	38.6	14.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.0	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	3.5	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)