

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: P400452

Luminaire Tested: **ARCH-L-PA3-280-760-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400452
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-PA3-280-760-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 1180mA 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: 28583 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

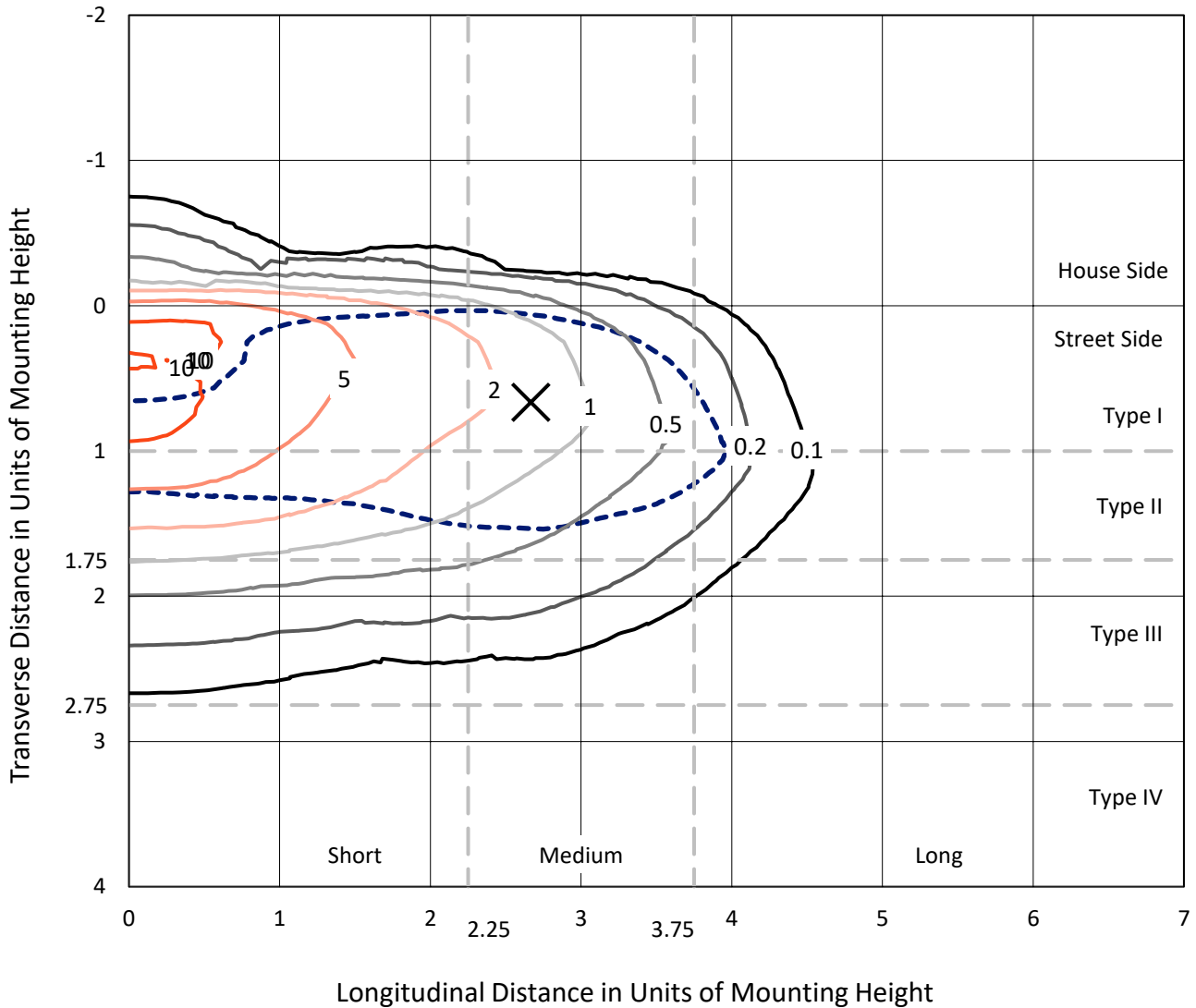
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

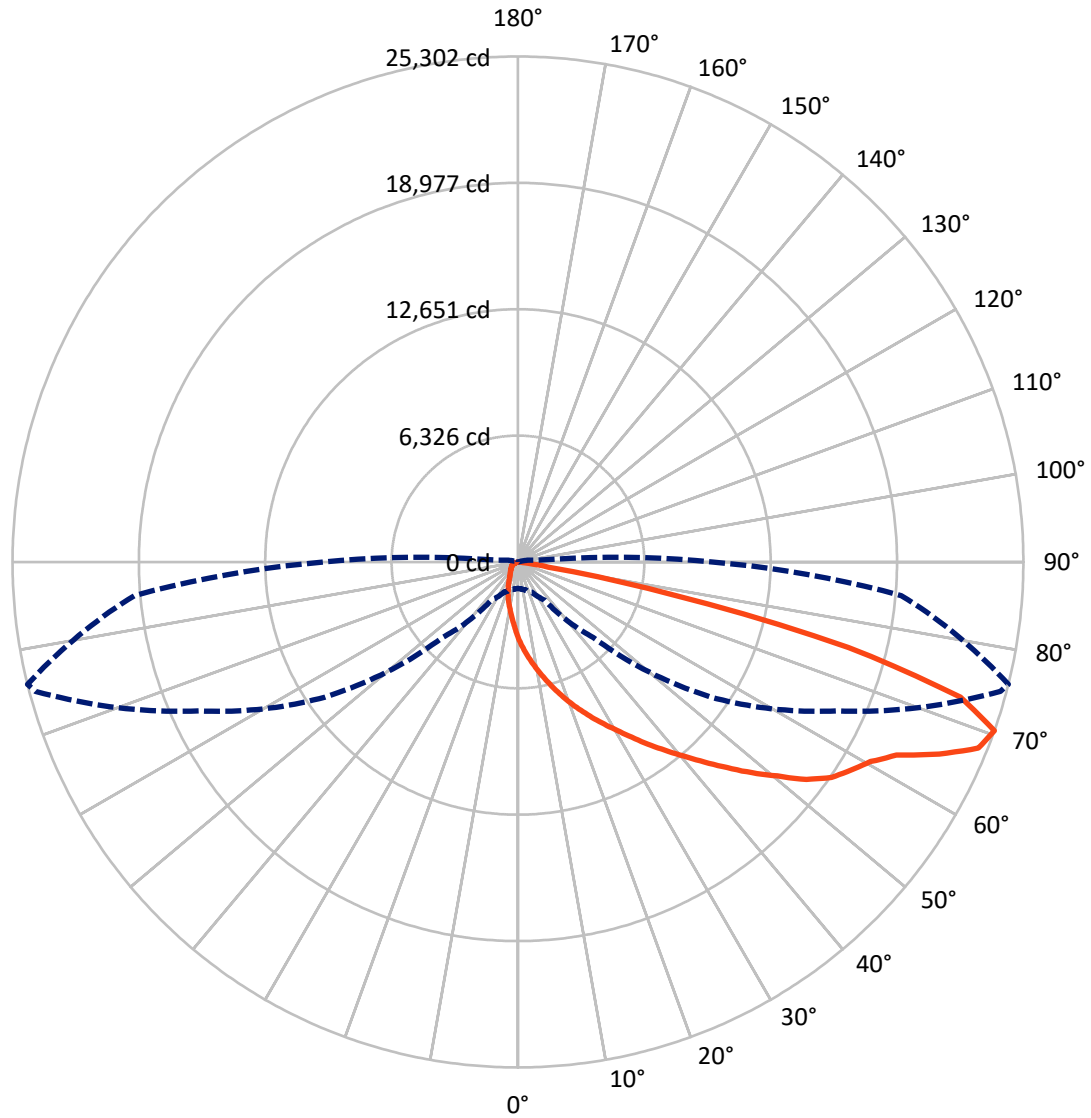
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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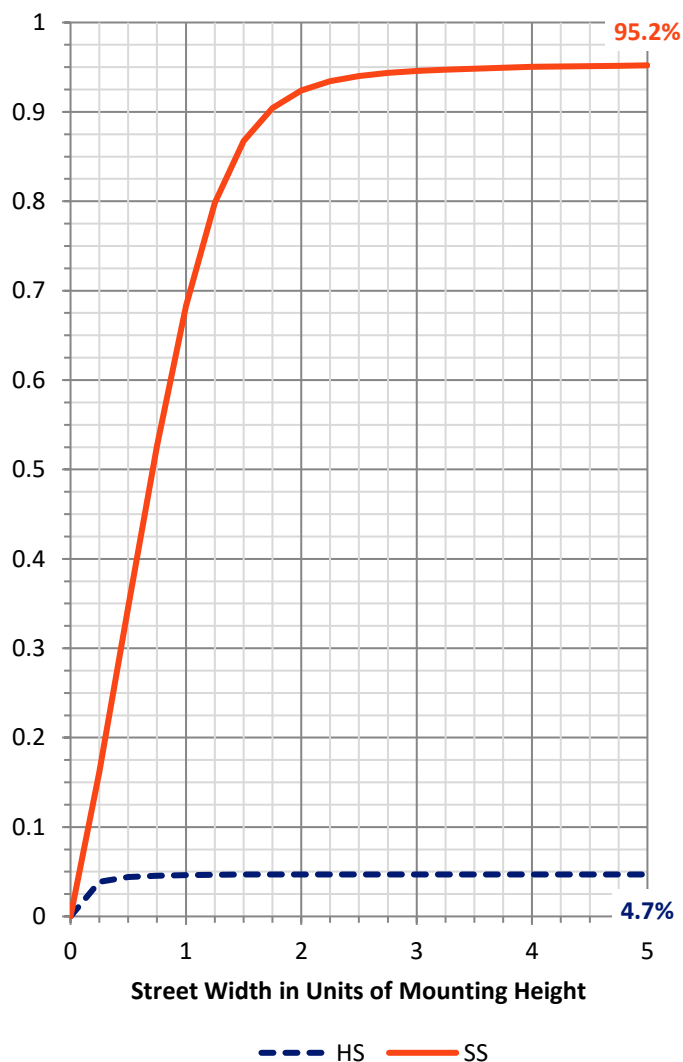
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1348.1	0.0	1348.1
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	27234.9	0.0	27234.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	28583.0	0.0	28583.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.4	1.3
10°-20°	1163.3	4.1
20°-30°	2166.5	7.6
30°-40°	3832.1	13.4
40°-50°	5860.2	20.5
50°-60°	6644.0	23.2
60°-70°	5695.6	19.9
70°-80°	2758.6	9.7
80°-90°	102.3	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°	28583.0	100.0
0°-180°	28583.0	100.0

Coefficient of Utilization



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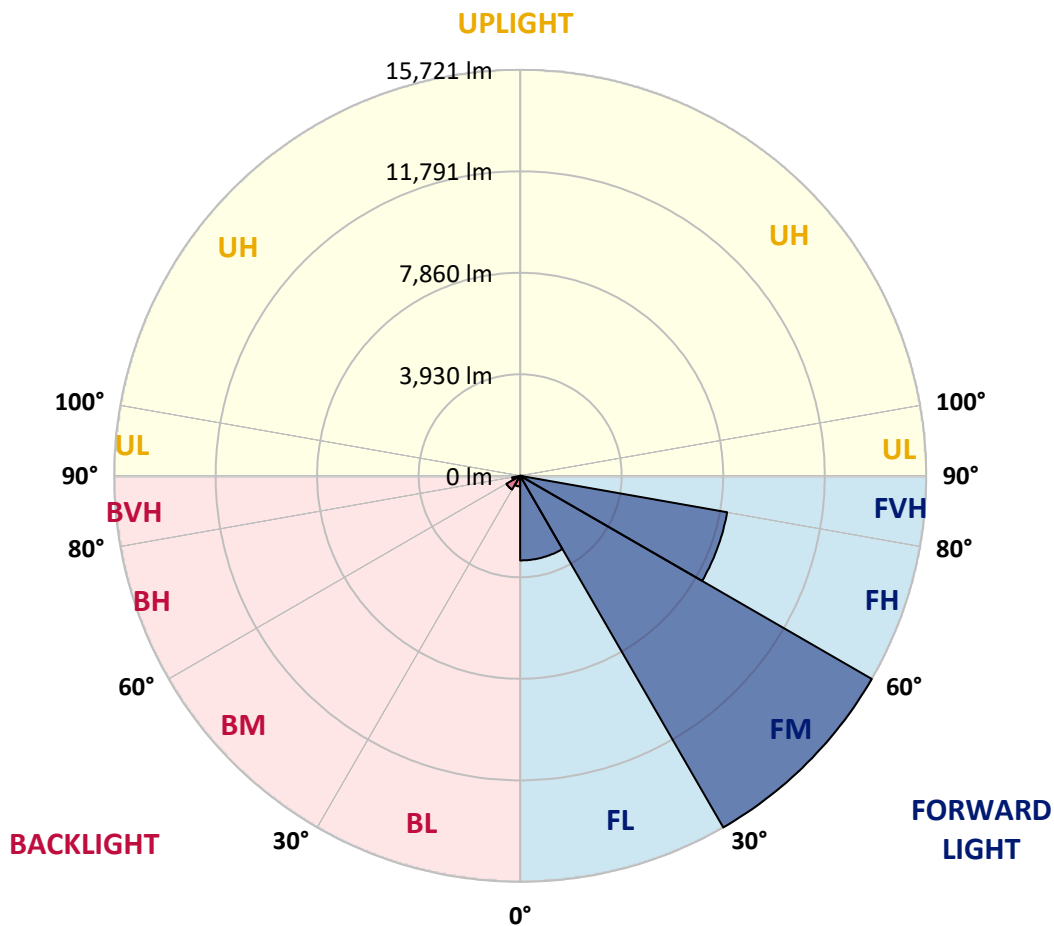
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3276.7	11.5			
FM (30°-60°)	15720.9	55.0			
FH (60°-80°)	8136.7	28.5			G4/12000
FVH (80°-90°)	100.6	0.4			G2/225
BL (0°-30°)	413.5	1.4	B1/500		
BM (30°-60°)	615.4	2.2	B1/1000		
BH (60°-80°)	317.4	1.1	B1/500		G1/500
BVH (80°-90°)	1.8	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3826.0	3826.0	3826.0	3826.0	3826.0	3826.0	3826.0	3826.0	3826.0	3826.0	3826.0
2.5°	5229.8	5201.3	5172.7	5063.3	4963.4	4872.9	4701.6	4478.0	4278.1	4235.3	4002.1
5°	6143.5	6110.2	6067.4	5957.9	5829.4	5677.2	5425.0	5082.3	4730.2	4654.0	4221.0
7.5°	6762.2	6733.6	6671.7	6619.4	6490.9	6343.4	6062.6	5662.9	5177.5	5082.3	4473.2
10°	7185.7	7166.6	7157.1	7114.3	7019.1	6900.2	6619.4	6200.6	5629.6	5520.1	4739.7
12.5°	7338.0	7338.0	7385.5	7456.9	7471.2	7433.1	7176.2	6757.4	6105.4	5991.2	5053.8
15°	7133.3	7157.1	7261.8	7490.2	7728.2	7885.2	7723.4	7333.2	6628.9	6505.2	5425.0
17.5°	7076.2	7100.0	7171.4	7371.3	7690.1	8108.9	8189.8	7890.0	7123.8	7019.1	5805.6
20°	7238.0	7261.8	7323.7	7495.0	7737.7	8161.2	8499.1	8427.7	7647.3	7537.8	6191.1
22.5°	7623.5	7637.8	7637.8	7771.0	7985.1	8299.2	8694.2	8936.9	8185.0	8066.0	6571.8
25°	8451.5	8423.0	8308.7	8242.1	8380.1	8637.1	8941.7	9384.2	8784.6	8622.8	6981.1
27.5°	9536.5	9631.7	9355.7	9036.8	8932.1	9079.7	9289.0	9779.2	9365.2	9193.9	7352.2
30°	11006.9	10968.9	10607.2	10150.4	9698.3	9645.9	9717.3	10117.1	9945.7	9783.9	7766.2
32.5°	12215.7	12287.0	11906.3	11349.6	10673.8	10355.0	10278.9	10521.5	10564.4	10459.7	8256.4
35°	13457.7	13533.8	13162.6	12544.0	11739.8	11206.8	10987.9	11021.2	11330.5	11197.3	8770.3
37.5°	14571.2	14637.9	14271.4	13638.5	12834.3	12182.3	11868.3	11611.3	12072.9	11953.9	9312.8
40°	15418.3	15427.8	15180.3	14614.1	13852.7	13176.9	12820.0	12315.6	12858.1	12777.2	9879.1
42.5°	16017.9	16036.9	15856.1	15370.7	14666.4	14038.3	13748.0	13148.4	13762.2	13690.9	10535.8
45°	16298.6	16332.0	16312.9	15865.6	15280.3	14737.8	14642.6	14033.5	14752.1	14685.4	11292.5
47.5°	16032.2	16032.2	16274.9	16213.0	15675.3	15313.6	15423.0	14956.7	15827.5	15765.7	12063.4
50°	14923.4	14937.7	15432.6	16141.6	15827.5	15746.6	16089.3	15860.8	16803.1	16841.1	12986.6
52.5°	12011.0	11987.2	13657.6	15018.5	15722.8	15941.7	16703.1	16784.0	17973.7	18087.9	13905.0
55°	8975.0	8960.7	10559.6	13029.4	14990.0	15841.8	17045.8	17607.3	18973.1	19044.4	14590.3
57.5°	7104.8	7066.7	7947.1	10502.5	13334.0	15394.5	17060.0	17764.3	19529.8	19653.6	15256.5
60°	5463.0	5429.7	6086.4	7813.8	10987.9	14204.8	16650.8	17773.9	20067.6	20286.5	16151.1
62.5°	3906.9	3945.0	4449.4	5605.8	8451.5	12525.0	16117.8	17907.1	21024.1	21271.5	17421.7
65°	2636.3	2617.3	3036.1	3816.5	6010.3	10264.6	15299.3	18187.9	22746.7	23179.8	18944.5
67.5°	1832.1	1846.4	2036.7	2484.1	3816.5	7880.5	13938.3	18344.9	24526.5	24864.4	20010.5
70°	1322.9	1342.0	1446.7	1670.3	2331.8	5344.1	11782.6	17626.3	25007.1	25302.2	19268.1
72.5°	870.8	908.9	1066.0	1184.9	1489.5	3345.4	8679.9	15185.1	22937.1	23156.0	16165.4
75°	471.1	480.6	685.3	885.1	1061.2	2084.3	5177.5	10240.8	17160.0	17088.6	10659.6
77.5°	366.4	380.7	423.5	632.9	713.8	1146.9	2046.3	4625.5	8127.9	7909.0	3635.7
80°	223.7	233.2	295.0	375.9	499.7	666.2	599.6	1256.3	1651.3	1546.6	533.0
82.5°	133.2	142.8	176.1	314.1	395.0	314.1	209.4	304.6	309.3	304.6	133.2
85°	23.8	23.8	123.7	218.9	209.4	90.4	123.7	99.9	90.4	95.2	28.6
87.5°	0.0	0.0	47.6	66.6	95.2	33.3	47.6	23.8	23.8	23.8	14.3
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°	3826.0	3826.0	3826.0	3826.0	3826.0	3826.0	3826.0	3826.0	3826.0	3826.0	3826.0
2.5°	3859.3	3697.5	3364.4	3074.1	2783.9	2569.7	2407.9	2241.4	2184.3	2112.9	2074.8
5°	3926.0	3607.1	2945.7	2417.4	1970.1	1627.5	1408.6	1275.3	1189.7	1127.8	1113.5
7.5°	4025.9	3535.7	2607.8	1894.0	1403.8	1061.2	880.4	789.9	742.4	713.8	704.3
10°	4144.9	3473.9	2274.7	1475.2	989.8	747.1	647.2	609.1	590.1	580.6	575.8
12.5°	4311.4	3450.1	1993.9	1137.3	747.1	613.9	561.5	537.7	523.5	509.2	504.4
15°	4530.3	3459.6	1736.9	880.4	618.6	547.3	504.4	480.6	461.6	447.3	447.3
17.5°	4758.7	3473.9	1484.7	713.8	561.5	499.7	452.1	418.8	404.5	390.2	385.5
20°	4972.9	3469.1	1242.0	609.1	509.2	447.3	399.7	366.4	342.6	328.4	328.4
22.5°	5177.5	3440.6	1013.6	547.3	466.4	395.0	342.6	309.3	290.3	276.0	276.0
25°	5396.4	3383.5	828.0	499.7	414.0	347.4	295.0	261.7	247.5	233.2	233.2
27.5°	5567.7	3288.3	675.7	456.8	366.4	299.8	252.2	223.7	209.4	199.9	199.9
30°	5753.3	3150.3	561.5	409.3	318.8	257.0	214.1	190.3	176.1	171.3	171.3
32.5°	5957.9	2998.0	480.6	361.7	271.2	218.9	180.8	166.6	152.3	147.5	147.5
35°	6195.9	2864.8	433.0	314.1	237.9	185.6	157.0	142.8	133.2	133.2	133.2
37.5°	6467.1	2726.8	390.2	276.0	204.6	157.0	133.2	128.5	123.7	119.0	119.0
40°	6762.2	2579.2	352.1	242.7	176.1	133.2	114.2	114.2	109.5	109.5	109.5
42.5°	7095.3	2450.7	318.8	214.1	152.3	114.2	99.9	99.9	95.2	95.2	95.2
45°	7456.9	2331.8	290.3	190.3	133.2	99.9	90.4	85.7	80.9	80.9	80.9
47.5°	7885.2	2265.2	266.5	166.6	114.2	85.7	76.1	71.4	66.6	61.9	61.9
50°	8432.5	2293.7	242.7	138.0	99.9	71.4	61.9	57.1	52.3	47.6	47.6
52.5°	8865.5	2279.4	209.4	119.0	80.9	57.1	47.6	42.8	38.1	33.3	33.3
55°	9179.6	2222.3	180.8	99.9	61.9	47.6	38.1	28.6	23.8	23.8	23.8
57.5°	9488.9	2165.2	152.3	80.9	47.6	33.3	23.8	19.0	19.0	19.0	19.0
60°	9969.5	2084.3	133.2	66.6	38.1	23.8	14.3	14.3	9.5	9.5	9.5
62.5°	10554.9	1984.4	109.5	57.1	28.6	19.0	9.5	9.5	0.0	0.0	0.0
65°	11197.3	1808.3	90.4	42.8	23.8	14.3	9.5	0.0	0.0	0.0	0.0
67.5°	11049.8	1451.4	76.1	28.6	19.0	9.5	4.8	0.0	0.0	0.0	0.0
70°	9774.4	980.3	61.9	23.8	14.3	9.5	4.8	0.0	0.0	0.0	0.0
72.5°	7656.8	580.6	42.8	19.0	9.5	4.8	0.0	0.0	0.0	0.0	0.0
75°	4901.5	290.3	28.6	14.3	9.5	4.8	0.0	0.0	0.0	0.0	0.0
77.5°	1641.8	142.8	19.0	9.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	233.2	47.6	9.5	4.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	52.3	19.0	4.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.0	9.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	4.8	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)