

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: P399480

Luminaire Tested: **ARCH-L-PA3-150-727-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399480
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-PA3-150-727-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 665mA 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: 15892 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

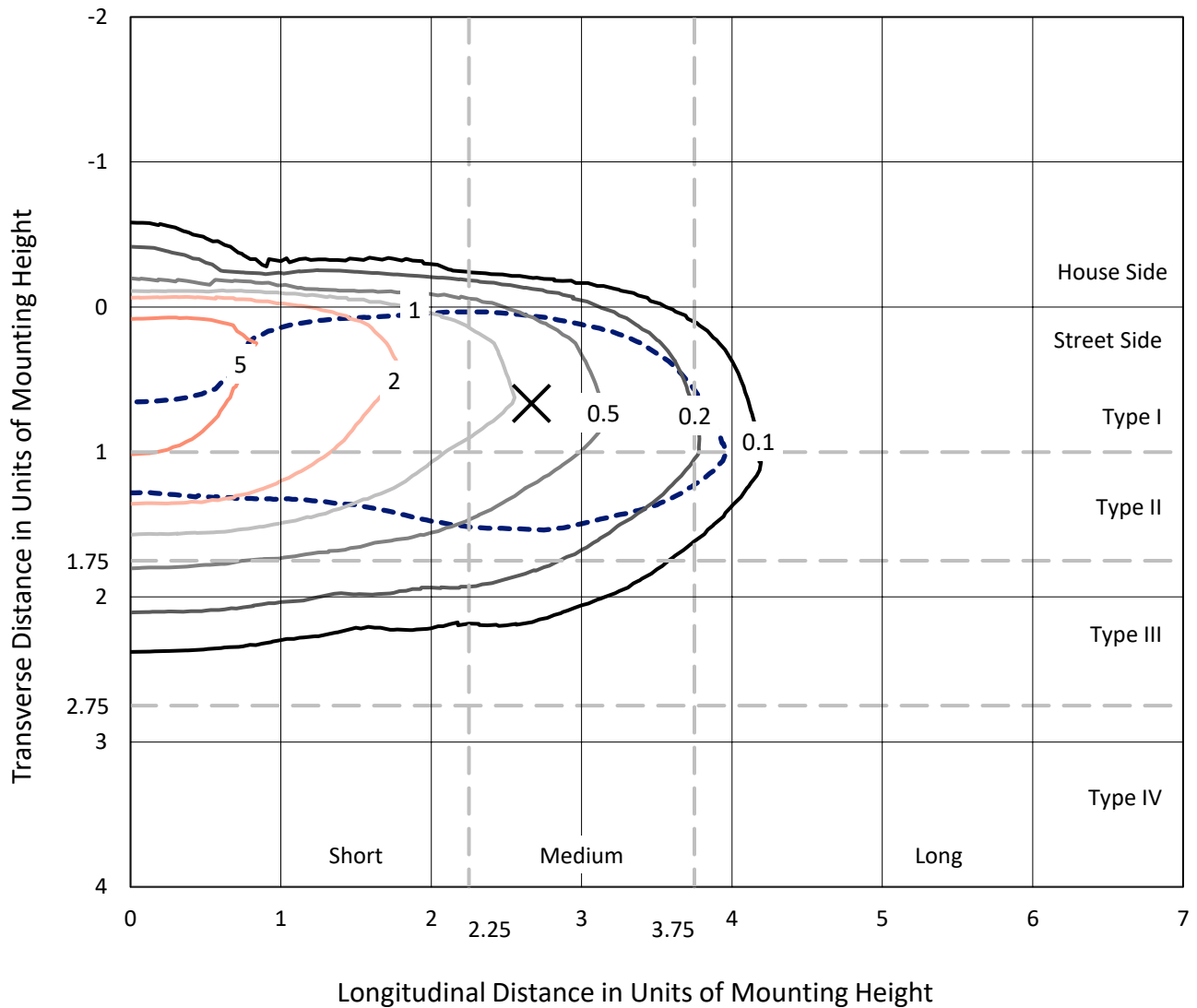
Input Watts (W): 153
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399480
 CATALOG NUMBER: ARCH-L-PA3-150-727-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

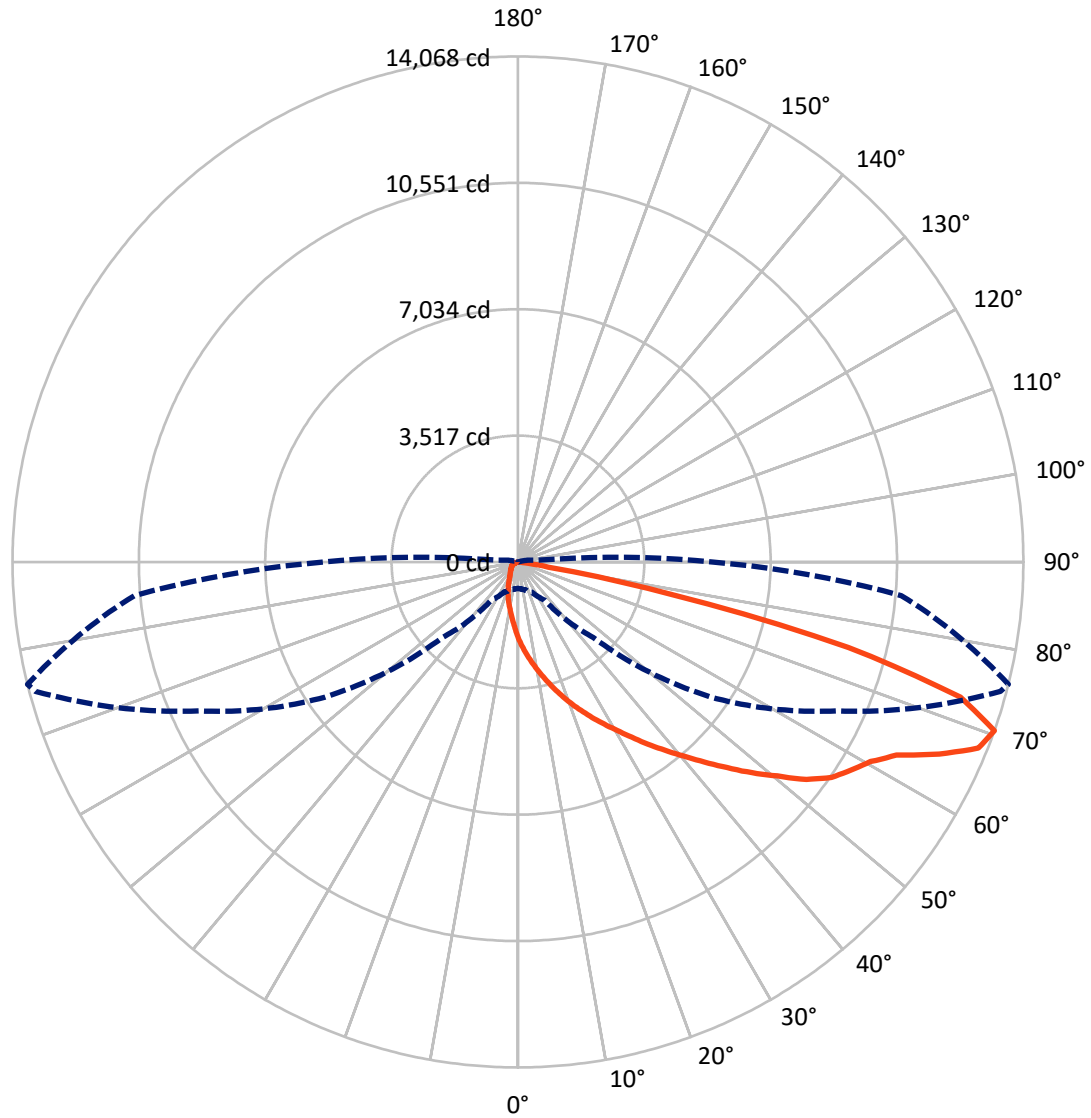
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P399480
CATALOG NUMBER: ARCH-L-PA3-150-727-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P399480
 CATALOG NUMBER: ARCH-L-PA3-150-727-U-T2R-HSS

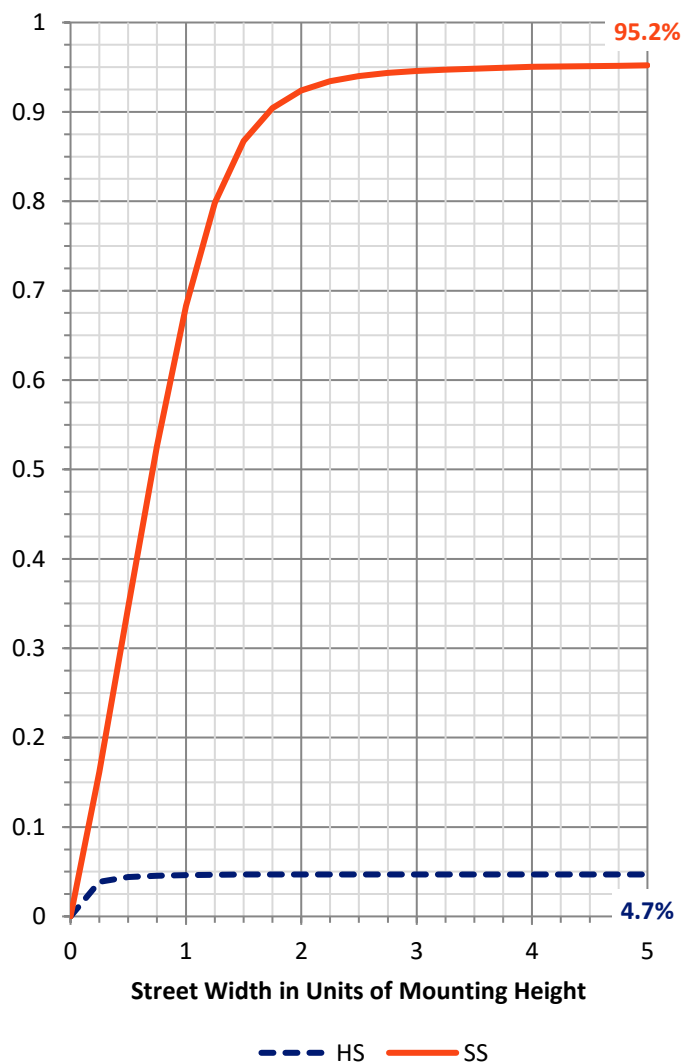
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	749.5	0.0	749.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	15142.5	0.0	15142.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	15892.0	0.0	15892.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.4	1.3
10°-20°	646.8	4.1
20°-30°	1204.6	7.6
30°-40°	2130.6	13.4
40°-50°	3258.2	20.5
50°-60°	3694.0	23.2
60°-70°	3166.7	19.9
70°-80°	1533.8	9.7
80°-90°	56.9	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°	15892.0	100.0
0°-180°	15892.0	100.0

Coefficient of Utilization



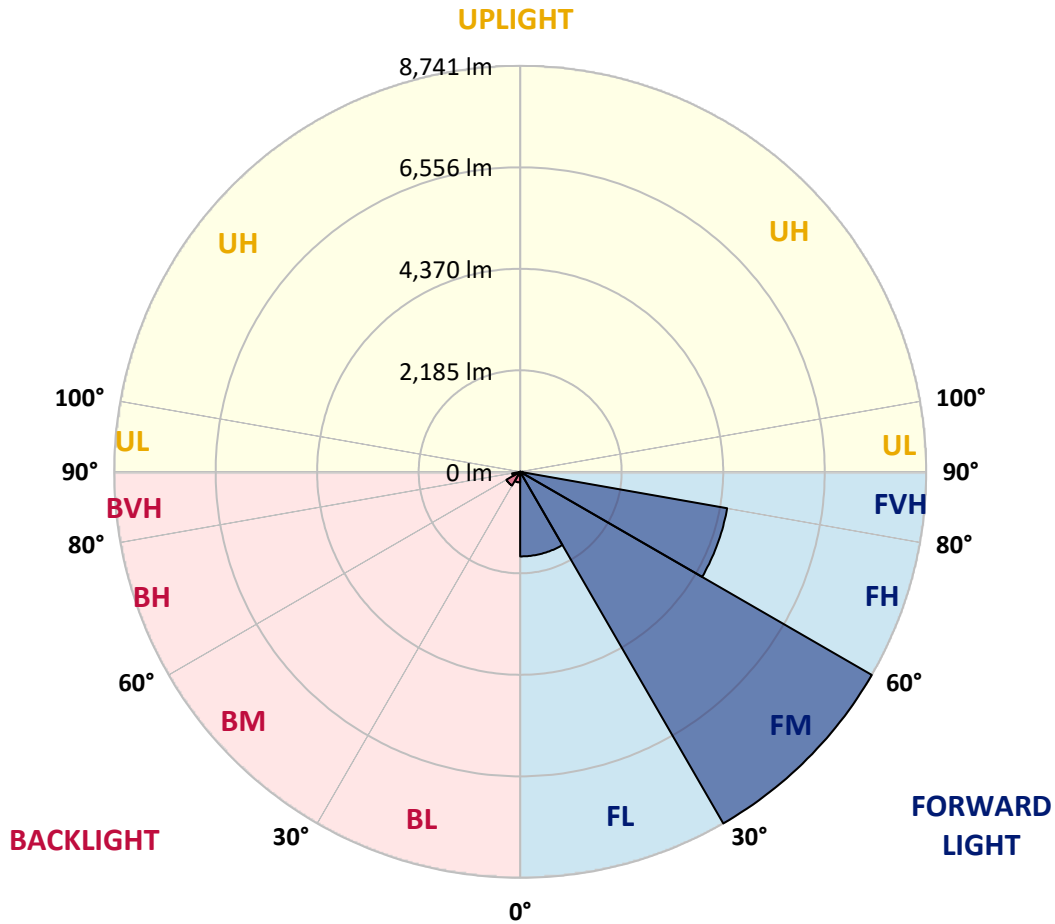
REPORT NUMBER: P399480
 CATALOG NUMBER: ARCH-L-PA3-150-727-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1821.8	11.5			
FM (30°-60°)	8740.7	55.0			
FH (60°-80°)	4524.0	28.5			G2/5000
FVH (80°-90°)	55.9	0.4			G1/100
BL (0°-30°)	229.9	1.4	B1/500		
BM (30°-60°)	342.1	2.2	B1/1000		
BH (60°-80°)	176.5	1.1	B1/500		G1/500
BVH (80°-90°)	1.0	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-G2

Type II Medium





REPORT NUMBER: P399480

CATALOG NUMBER: ARCH-L-PA3-150-727-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2127.2	2127.2	2127.2	2127.2	2127.2	2127.2	2127.2	2127.2	2127.2	2127.2	2127.2
2.5°	2907.8	2891.9	2876.0	2815.2	2759.6	2709.3	2614.1	2489.7	2378.6	2354.8	2225.1
5°	3415.8	3397.2	3373.4	3312.6	3241.1	3156.5	3016.2	2825.7	2630.0	2587.6	2346.9
7.5°	3759.7	3743.8	3709.5	3680.3	3608.9	3526.9	3370.8	3148.5	2878.7	2825.7	2487.1
10°	3995.2	3984.6	3979.3	3955.5	3902.6	3836.5	3680.3	3447.5	3130.0	3069.2	2635.2
12.5°	4079.9	4079.9	4106.3	4146.0	4154.0	4132.8	3989.9	3757.1	3394.6	3331.1	2809.9
15°	3966.1	3979.3	4037.5	4164.5	4296.8	4384.1	4294.2	4077.2	3685.6	3616.8	3016.2
17.5°	3934.3	3947.6	3987.3	4098.4	4275.7	4508.5	4553.5	4386.8	3960.8	3902.6	3227.9
20°	4024.3	4037.5	4071.9	4167.2	4302.1	4537.6	4725.5	4685.8	4251.8	4191.0	3442.2
22.5°	4238.6	4246.6	4246.6	4320.6	4439.7	4614.3	4833.9	4968.9	4550.8	4484.7	3653.9
25°	4699.0	4683.1	4619.6	4582.6	4659.3	4802.2	4971.5	5217.6	4884.2	4794.2	3881.4
27.5°	5302.2	5355.2	5201.7	5024.4	4966.2	5048.2	5164.7	5437.2	5207.0	5111.7	4087.8
30°	6119.8	6098.6	5897.6	5643.6	5392.2	5363.1	5402.8	5625.0	5529.8	5439.8	4318.0
32.5°	6791.8	6831.5	6619.9	6310.3	5934.6	5757.3	5715.0	5849.9	5873.7	5815.5	4590.5
35°	7482.4	7524.7	7318.4	6974.4	6527.3	6230.9	6109.2	6127.7	6299.7	6225.6	4876.3
37.5°	8101.5	8138.6	7934.8	7582.9	7135.8	6773.3	6598.7	6455.8	6712.5	6646.3	5177.9
40°	8572.5	8577.8	8440.2	8125.3	7702.0	7326.3	7127.9	6847.4	7149.0	7104.1	5492.7
42.5°	8905.9	8916.4	8815.9	8546.0	8154.4	7805.2	7643.8	7310.4	7651.7	7612.0	5857.9
45°	9062.0	9080.5	9069.9	8821.2	8495.8	8194.1	8141.2	7802.5	8202.1	8165.0	6278.6
47.5°	8913.8	8913.8	9048.7	9014.3	8715.4	8514.3	8575.1	8315.8	8800.0	8765.6	6707.2
50°	8297.3	8305.3	8580.4	8974.7	8800.0	8755.0	8945.5	8818.5	9342.4	9363.6	7220.5
52.5°	6678.1	6664.8	7593.5	8350.2	8741.8	8863.5	9286.9	9331.8	9993.3	10056.8	7731.1
55°	4990.0	4982.1	5871.1	7244.3	8334.4	8808.0	9477.4	9789.6	10548.9	10588.6	8112.1
57.5°	3950.2	3929.1	4418.5	5839.3	7413.6	8559.3	9485.3	9876.9	10858.5	10927.3	8482.5
60°	3037.4	3018.9	3384.0	4344.5	6109.2	7897.8	9257.8	9882.2	11157.5	11279.2	8979.9
62.5°	2172.2	2193.4	2473.8	3116.8	4699.0	6963.8	8961.4	9956.3	11689.3	11826.9	9686.4
65°	1465.8	1455.2	1688.0	2122.0	3341.7	5707.1	8506.3	10112.4	12647.1	12887.8	10533.0
67.5°	1018.6	1026.6	1132.4	1381.1	2122.0	4381.5	7749.6	10199.7	13636.6	13824.5	11125.7
70°	735.5	746.1	804.3	928.7	1296.5	2971.3	6551.1	9800.1	13903.8	14067.9	10713.0
72.5°	484.2	505.4	592.7	658.8	828.1	1860.0	4826.0	8442.8	12752.9	12874.6	8987.9
75°	261.9	267.2	381.0	492.1	590.0	1158.9	2878.7	5693.8	9540.9	9501.2	5926.7
77.5°	203.7	211.7	235.5	351.9	396.9	637.6	1137.7	2571.7	4519.1	4397.4	2021.4
80°	124.4	129.6	164.0	209.0	277.8	370.4	333.4	698.5	918.1	859.9	296.3
82.5°	74.1	79.4	97.9	174.6	219.6	174.6	116.4	169.3	172.0	169.3	74.1
85°	13.2	13.2	68.8	121.7	116.4	50.3	68.8	55.6	50.3	52.9	15.9
87.5°	0.0	0.0	26.5	37.0	52.9	18.5	26.5	13.2	13.2	13.2	7.9
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: P399480
 CATALOG NUMBER: ARCH-L-PA3-150-727-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2127.2	2127.2	2127.2	2127.2	2127.2	2127.2	2127.2	2127.2	2127.2	2127.2	2127.2
2.5°	2145.8	2055.8	1870.6	1709.2	1547.8	1428.7	1338.8	1246.2	1214.4	1174.7	1153.6
5°	2182.8	2005.5	1637.8	1344.1	1095.4	904.9	783.2	709.1	661.5	627.1	619.1
7.5°	2238.4	1965.9	1449.9	1053.0	780.5	590.0	489.5	439.2	412.7	396.9	391.6
10°	2304.5	1931.5	1264.7	820.2	550.3	415.4	359.8	338.7	328.1	322.8	320.1
12.5°	2397.1	1918.2	1108.6	632.4	415.4	341.3	312.2	299.0	291.0	283.1	280.5
15°	2518.8	1923.5	965.7	489.5	344.0	304.3	280.5	267.2	256.6	248.7	248.7
17.5°	2645.8	1931.5	825.5	396.9	312.2	277.8	251.4	232.8	224.9	217.0	214.3
20°	2764.9	1928.8	690.6	338.7	283.1	248.7	222.2	203.7	190.5	182.6	182.6
22.5°	2878.7	1912.9	563.6	304.3	259.3	219.6	190.5	172.0	161.4	153.5	153.5
25°	3000.4	1881.2	460.4	277.8	230.2	193.1	164.0	145.5	137.6	129.6	129.6
27.5°	3095.6	1828.3	375.7	254.0	203.7	166.7	140.2	124.4	116.4	111.1	111.1
30°	3198.8	1751.5	312.2	227.5	177.3	142.9	119.1	105.8	97.9	95.2	95.2
32.5°	3312.6	1666.9	267.2	201.1	150.8	121.7	100.5	92.6	84.7	82.0	82.0
35°	3444.9	1592.8	240.8	174.6	132.3	103.2	87.3	79.4	74.1	74.1	74.1
37.5°	3595.7	1516.1	217.0	153.5	113.8	87.3	74.1	71.4	68.8	66.1	66.1
40°	3759.7	1434.0	195.8	134.9	97.9	74.1	63.5	63.5	60.9	60.9	60.9
42.5°	3944.9	1362.6	177.3	119.1	84.7	63.5	55.6	55.6	52.9	52.9	52.9
45°	4146.0	1296.5	161.4	105.8	74.1	55.6	50.3	47.6	45.0	45.0	45.0
47.5°	4384.1	1259.4	148.2	92.6	63.5	47.6	42.3	39.7	37.0	34.4	34.4
50°	4688.4	1275.3	134.9	76.7	55.6	39.7	34.4	31.7	29.1	26.5	26.5
52.5°	4929.2	1267.4	116.4	66.1	45.0	31.7	26.5	23.8	21.2	18.5	18.5
55°	5103.8	1235.6	100.5	55.6	34.4	26.5	21.2	15.9	13.2	13.2	13.2
57.5°	5275.8	1203.9	84.7	45.0	26.5	18.5	13.2	10.6	10.6	10.6	10.6
60°	5543.0	1158.9	74.1	37.0	21.2	13.2	7.9	7.9	5.3	5.3	5.3
62.5°	5868.4	1103.3	60.9	31.7	15.9	10.6	5.3	5.3	0.0	0.0	0.0
65°	6225.6	1005.4	50.3	23.8	13.2	7.9	5.3	0.0	0.0	0.0	0.0
67.5°	6143.6	807.0	42.3	15.9	10.6	5.3	2.6	0.0	0.0	0.0	0.0
70°	5434.5	545.0	34.4	13.2	7.9	5.3	2.6	0.0	0.0	0.0	0.0
72.5°	4257.1	322.8	23.8	10.6	5.3	2.6	0.0	0.0	0.0	0.0	0.0
75°	2725.2	161.4	15.9	7.9	5.3	2.6	0.0	0.0	0.0	0.0	0.0
77.5°	912.8	79.4	10.6	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	129.6	26.5	5.3	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.1	10.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.6	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	2.6	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)