

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: P400281

Luminaire Tested: **ARCH-L-PA3-260-730-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400281
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-PA3-260-730-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1110mA 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: 24966 lumens
Efficiency: N/A
Efficacy: 95.7 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

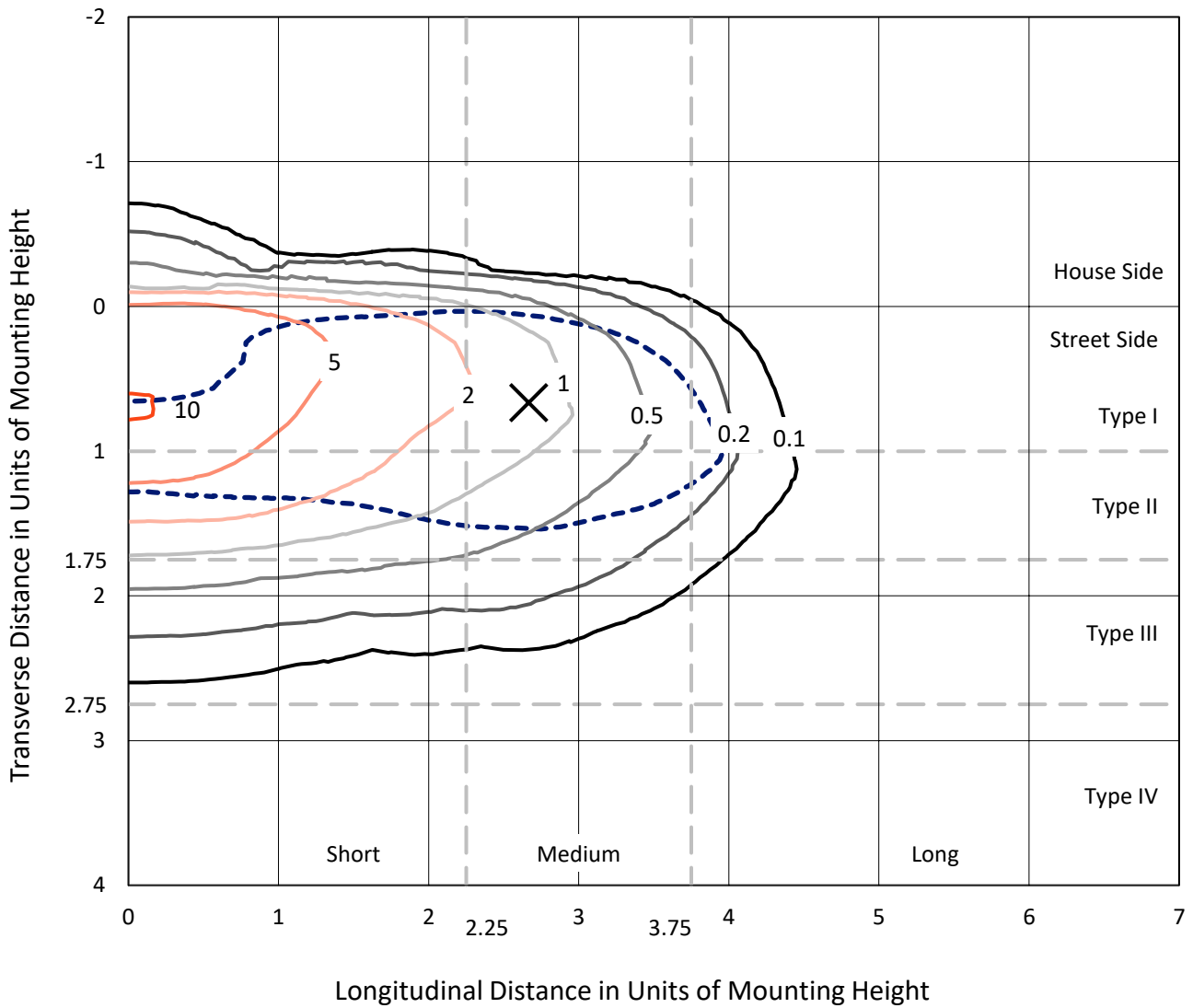
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

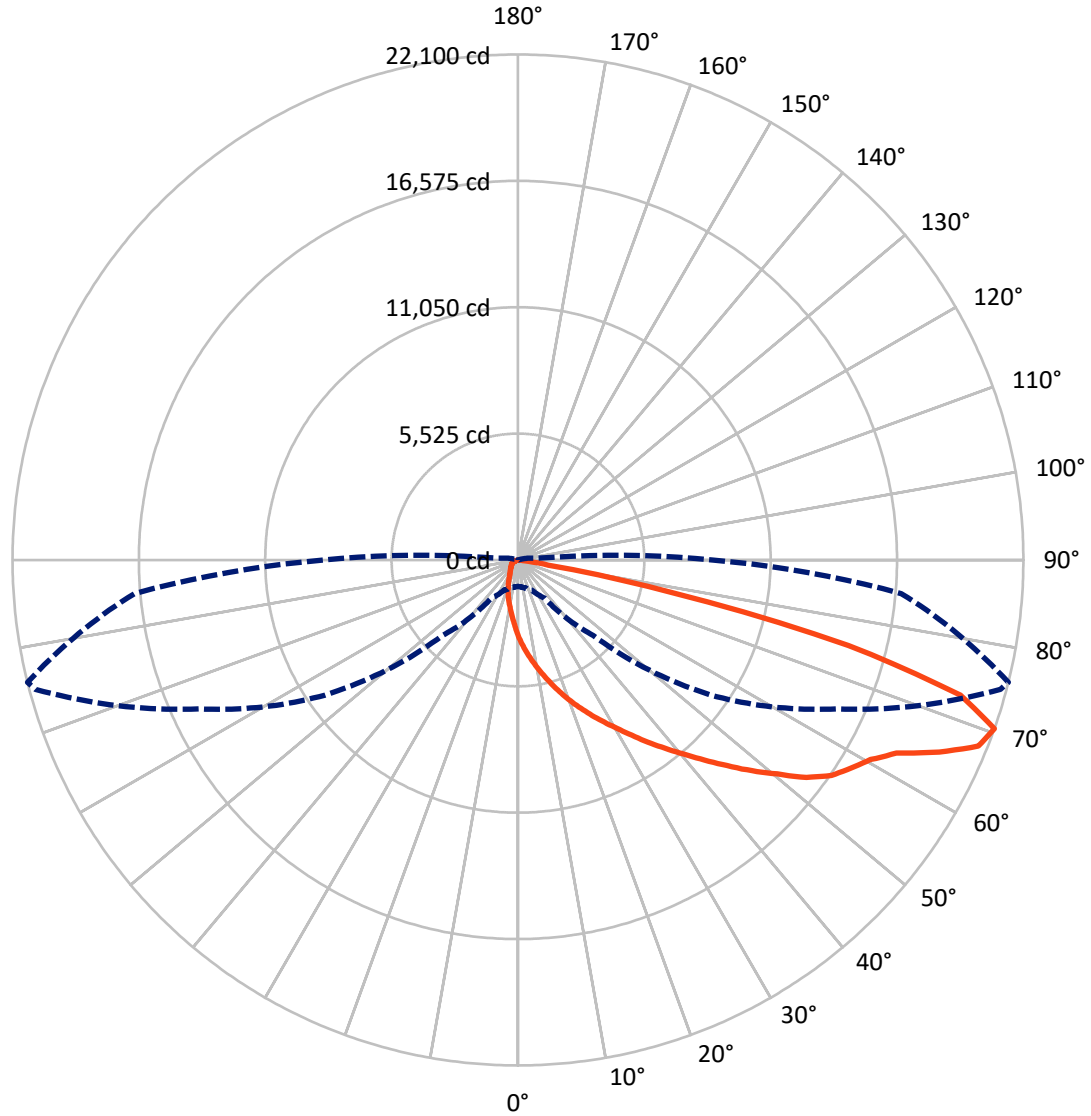
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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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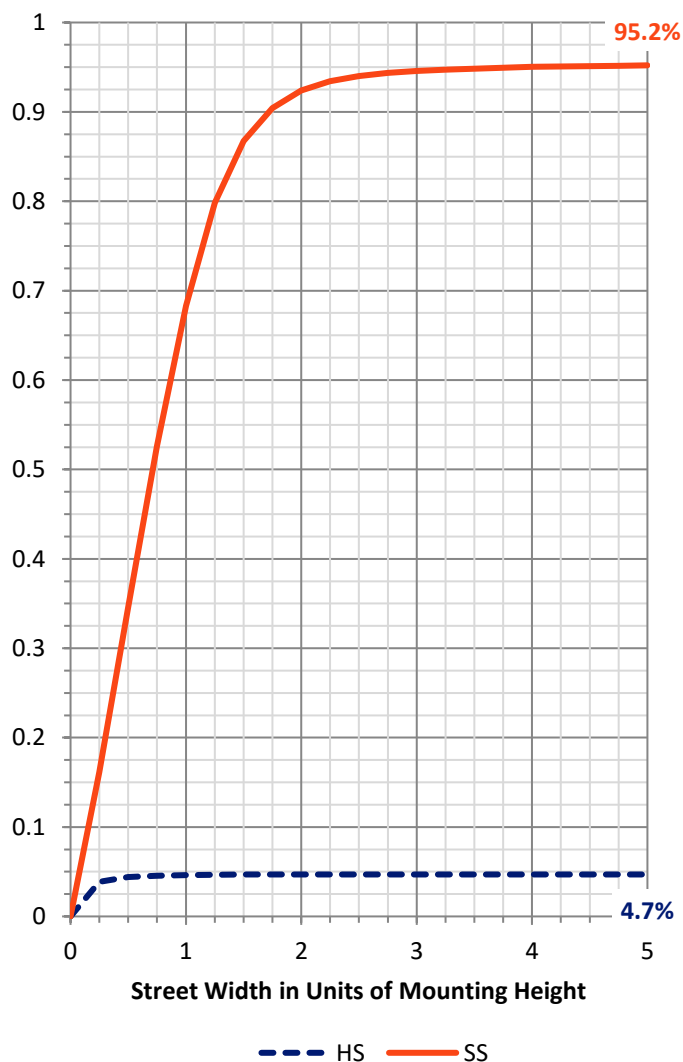
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1177.5	0.0	1177.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	23788.5	0.0	23788.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	24966.0	0.0	24966.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.8	1.3
10°-20°	1016.1	4.1
20°-30°	1892.4	7.6
30°-40°	3347.2	13.4
40°-50°	5118.6	20.5
50°-60°	5803.3	23.2
60°-70°	4974.8	19.9
70°-80°	2409.5	9.7
80°-90°	89.4	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°	24966.0	100.0
0°-180°	24966.0	100.0

Coefficient of Utilization

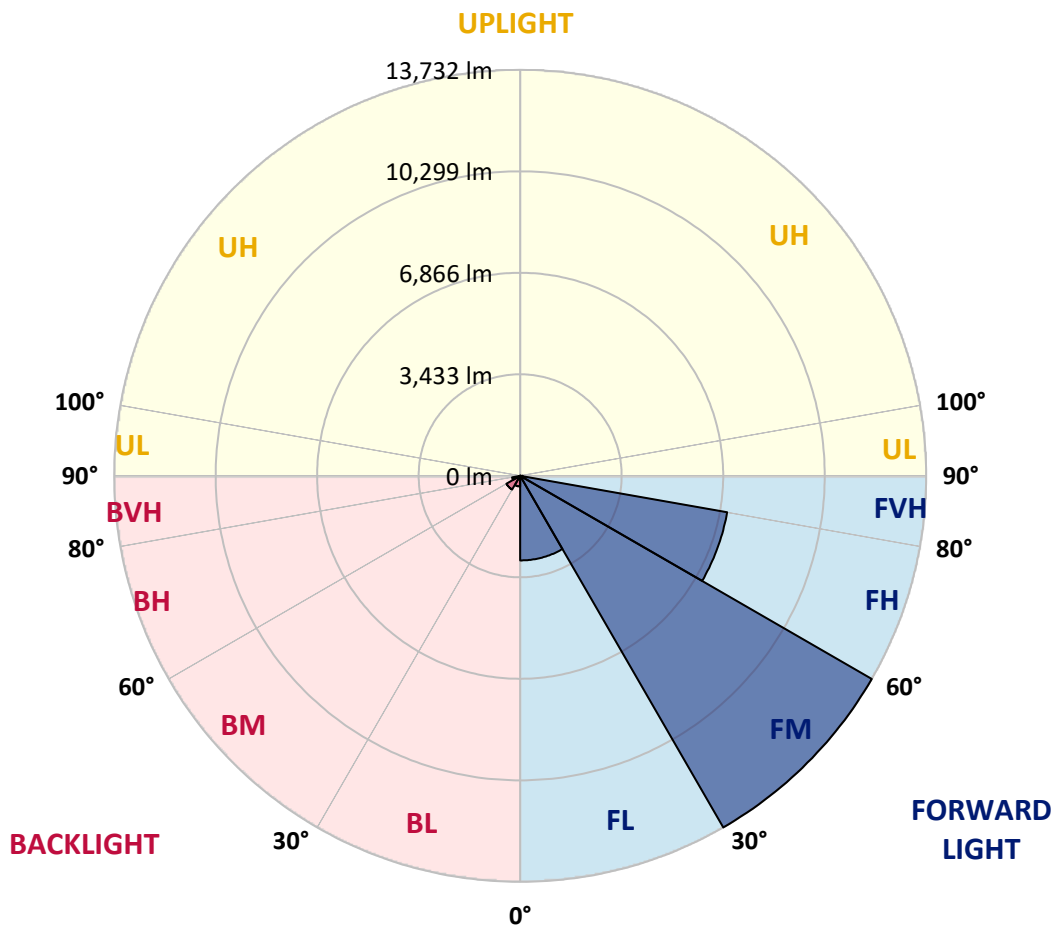


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2862.1	11.5			
FM (30°-60°)	13731.5	55.0			
FH (60°-80°)	7107.1	28.5			G3/7500
FVH (80°-90°)	87.9	0.4			G1/100
BL (0°-30°)	361.2	1.4	B1/500		
BM (30°-60°)	537.5	2.2	B1/1000		
BH (60°-80°)	277.3	1.1	B1/500		G1/500
BVH (80°-90°)	1.5	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°	3341.9	3341.9	3341.9	3341.9	3341.9	3341.9	3341.9	3341.9	3341.9	3341.9	3341.9
2.5°	4568.0	4543.1	4518.2	4422.6	4335.3	4256.3	4106.7	3911.3	3736.7	3699.3	3495.7
5°	5366.1	5337.0	5299.6	5204.0	5091.8	4958.8	4738.5	4439.2	4131.6	4065.1	3686.9
7.5°	5906.4	5881.5	5827.5	5781.7	5669.5	5540.7	5295.4	4946.3	4522.3	4439.2	3907.1
10°	6276.4	6259.8	6251.4	6214.0	6130.9	6027.0	5781.7	5416.0	4917.2	4821.6	4139.9
12.5°	6409.4	6409.4	6451.0	6513.3	6525.8	6492.5	6268.1	5902.3	5332.8	5233.1	4414.2
15°	6230.7	6251.4	6342.9	6542.4	6750.2	6887.4	6746.1	6405.2	5790.1	5682.0	4738.5
17.5°	6180.8	6201.6	6263.9	6438.5	6717.0	7082.7	7153.4	6891.5	6222.3	6130.9	5071.0
20°	6322.1	6342.9	6396.9	6546.6	6758.5	7128.5	7423.6	7361.2	6679.6	6584.0	5407.7
22.5°	6658.8	6671.2	6671.2	6787.6	6974.7	7249.0	7594.0	7806.0	7149.3	7045.3	5740.2
25°	7382.0	7357.1	7257.3	7199.1	7319.7	7544.1	7810.1	8196.7	7673.0	7531.7	6097.6
27.5°	8329.7	8412.8	8171.8	7893.3	7801.8	7930.7	8113.6	8541.7	8180.1	8030.4	6421.9
30°	9614.1	9580.8	9264.9	8865.9	8471.0	8425.3	8487.7	8836.8	8687.2	8545.8	6783.5
32.5°	10669.8	10732.2	10399.7	9913.4	9323.1	9044.6	8978.1	9190.1	9227.5	9136.1	7211.6
35°	11754.7	11821.2	11497.0	10956.6	10254.2	9788.7	9597.5	9626.6	9896.7	9780.3	7660.5
37.5°	12727.3	12785.5	12465.5	11912.6	11210.2	10640.7	10366.4	10142.0	10545.1	10441.2	8134.4
40°	13467.2	13475.5	13259.4	12764.7	12099.7	11509.5	11197.7	10757.1	11231.0	11160.3	8629.0
42.5°	13990.9	14007.5	13849.6	13425.6	12810.5	12261.8	12008.2	11484.5	12020.7	11958.4	9202.6
45°	14236.2	14265.3	14248.6	13857.9	13346.7	12872.8	12789.7	12257.6	12885.3	12827.1	9863.5
47.5°	14003.4	14003.4	14215.4	14161.3	13691.6	13375.8	13471.4	13064.0	13824.7	13770.6	10536.8
50°	13034.9	13047.4	13479.7	14099.0	13824.7	13754.0	14053.3	13853.8	14676.7	14710.0	11343.2
52.5°	10491.1	10470.3	11929.3	13118.0	13733.2	13924.4	14589.5	14660.1	15699.3	15799.0	12145.4
55°	7839.2	7826.8	9223.4	11380.6	13093.1	13837.1	14888.7	15379.2	16572.1	16634.5	12744.0
57.5°	6205.7	6172.5	6941.4	9173.5	11646.6	13446.4	14901.2	15516.4	17058.4	17166.5	13325.9
60°	4771.7	4742.6	5316.2	6825.0	9597.5	12407.3	14543.7	15524.7	17528.1	17719.3	14107.3
62.5°	3412.5	3445.8	3886.4	4896.4	7382.0	10940.0	14078.2	15641.1	18363.6	18579.7	15217.1
65°	2302.7	2286.1	2651.9	3333.5	5249.7	8965.7	13363.3	15886.3	19868.3	20246.5	16547.2
67.5°	1600.3	1612.7	1779.0	2169.7	3333.5	6883.2	12174.5	16023.5	21422.8	21717.9	17478.3
70°	1155.5	1172.1	1263.6	1458.9	2036.7	4667.8	10291.6	15395.8	21842.6	22100.3	16829.8
72.5°	760.6	793.9	931.1	1035.0	1301.0	2922.0	7581.5	13263.5	20034.5	20225.7	14119.8
75°	411.5	419.8	598.5	773.1	926.9	1820.6	4522.3	8944.9	14988.5	14926.1	9310.7
77.5°	320.1	332.5	369.9	552.8	623.5	1001.7	1787.3	4040.2	7099.4	6908.2	3175.6
80°	195.4	203.7	257.7	328.4	436.4	581.9	523.7	1097.3	1442.3	1350.9	465.5
82.5°	116.4	124.7	153.8	274.3	345.0	274.3	182.9	266.0	270.2	266.0	116.4
85°	20.8	20.8	108.1	191.2	182.9	79.0	108.1	87.3	79.0	83.1	24.9
87.5°	0.0	0.0	41.6	58.2	83.1	29.1	41.6	20.8	20.8	20.8	12.5
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3341.9	3341.9	3341.9	3341.9	3341.9	3341.9	3341.9	3341.9	3341.9	3341.9	3341.9
2.5°	3371.0	3229.6	2938.7	2685.1	2431.6	2244.5	2103.2	1957.7	1907.9	1845.5	1812.3
5°	3429.1	3150.7	2572.9	2111.5	1720.8	1421.5	1230.3	1114.0	1039.1	985.1	972.6
7.5°	3516.4	3088.3	2277.8	1654.3	1226.2	926.9	769.0	690.0	648.4	623.5	615.2
10°	3620.3	3034.3	1986.8	1288.5	864.6	652.6	565.3	532.0	515.4	507.1	502.9
12.5°	3765.8	3013.5	1741.6	993.4	652.6	536.2	490.5	469.7	457.2	444.7	440.6
15°	3957.0	3021.8	1517.1	769.0	540.4	478.0	440.6	419.8	403.2	390.7	390.7
17.5°	4156.5	3034.3	1296.8	623.5	490.5	436.4	394.9	365.8	353.3	340.8	336.7
20°	4343.6	3030.1	1084.9	532.0	444.7	390.7	349.1	320.1	299.3	286.8	286.8
22.5°	4522.3	3005.2	885.3	478.0	407.3	345.0	299.3	270.2	253.5	241.1	241.1
25°	4713.5	2955.3	723.2	436.4	361.6	303.4	257.7	228.6	216.1	203.7	203.7
27.5°	4863.2	2872.2	590.2	399.0	320.1	261.9	220.3	195.4	182.9	174.6	174.6
30°	5025.3	2751.6	490.5	357.5	278.5	224.5	187.0	166.3	153.8	149.6	149.6
32.5°	5204.0	2618.6	419.8	315.9	236.9	191.2	157.9	145.5	133.0	128.9	128.9
35°	5411.8	2502.2	378.2	274.3	207.8	162.1	137.2	124.7	116.4	116.4	116.4
37.5°	5648.7	2381.7	340.8	241.1	178.7	137.2	116.4	112.2	108.1	103.9	103.9
40°	5906.4	2252.8	307.6	212.0	153.8	116.4	99.8	99.8	95.6	95.6	95.6
42.5°	6197.4	2140.6	278.5	187.0	133.0	99.8	87.3	87.3	83.1	83.1	83.1
45°	6513.3	2036.7	253.5	166.3	116.4	87.3	79.0	74.8	70.7	70.7	70.7
47.5°	6887.4	1978.5	232.8	145.5	99.8	74.8	66.5	62.3	58.2	54.0	54.0
50°	7365.4	2003.5	212.0	120.5	87.3	62.3	54.0	49.9	45.7	41.6	41.6
52.5°	7743.6	1991.0	182.9	103.9	70.7	49.9	41.6	37.4	33.3	29.1	29.1
55°	8018.0	1941.1	157.9	87.3	54.0	41.6	33.3	24.9	20.8	20.8	20.8
57.5°	8288.1	1891.2	133.0	70.7	41.6	29.1	20.8	16.6	16.6	16.6	16.6
60°	8708.0	1820.6	116.4	58.2	33.3	20.8	12.5	12.5	8.3	8.3	8.3
62.5°	9219.2	1733.3	95.6	49.9	24.9	16.6	8.3	8.3	0.0	0.0	0.0
65°	9780.3	1579.5	79.0	37.4	20.8	12.5	8.3	0.0	0.0	0.0	0.0
67.5°	9651.5	1267.7	66.5	24.9	16.6	8.3	4.2	0.0	0.0	0.0	0.0
70°	8537.5	856.2	54.0	20.8	12.5	8.3	4.2	0.0	0.0	0.0	0.0
72.5°	6687.9	507.1	37.4	16.6	8.3	4.2	0.0	0.0	0.0	0.0	0.0
75°	4281.2	253.5	24.9	12.5	8.3	4.2	0.0	0.0	0.0	0.0	0.0
77.5°	1434.0	124.7	16.6	8.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	203.7	41.6	8.3	4.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	45.7	16.6	4.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.6	8.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.3	4.2	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)