

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: P236946

Luminaire Tested: **ARCH-L-AF72-130-D-U-T2R-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29623)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-130-D-U-T2R-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 575mA 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: 13721.8 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

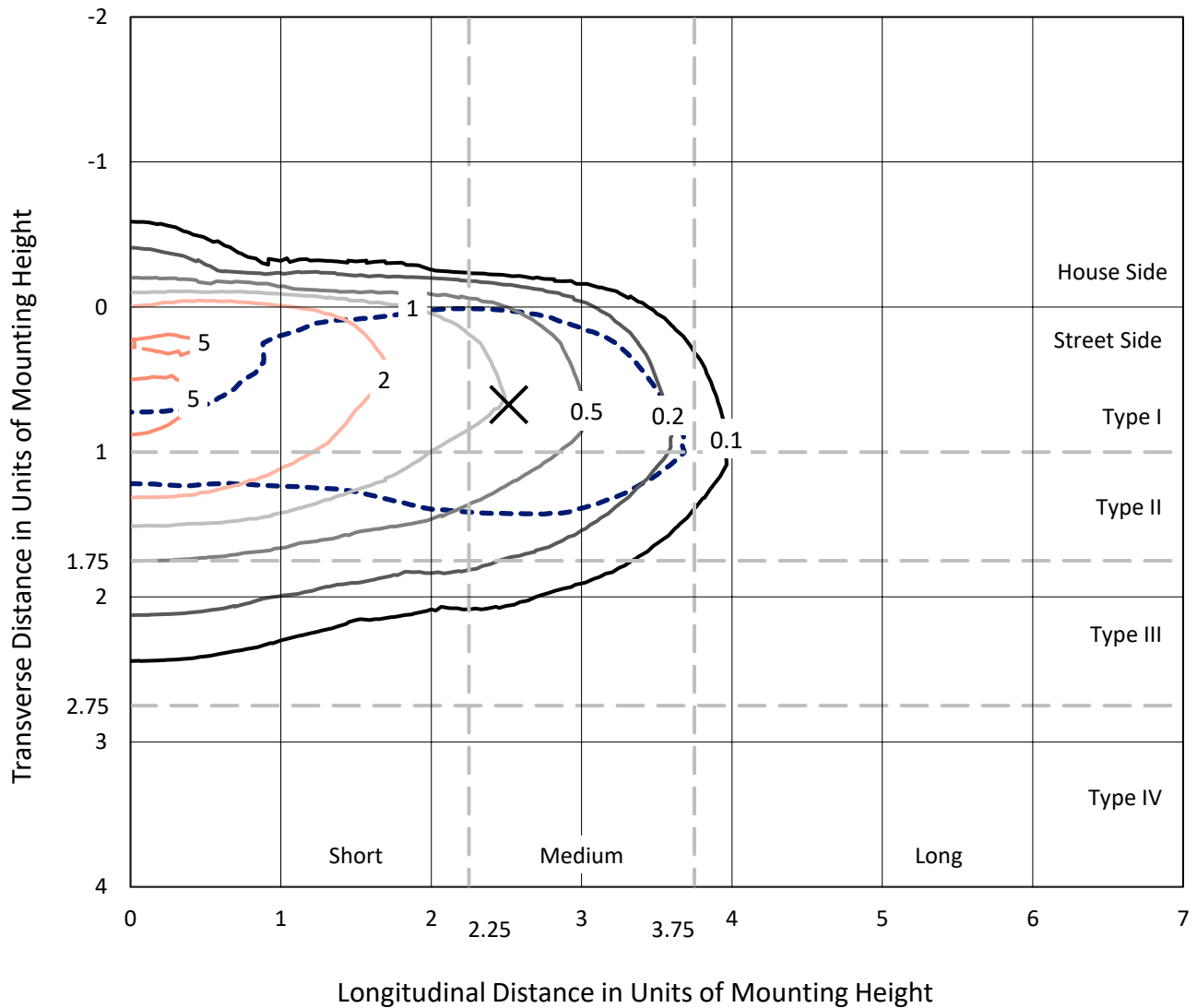
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

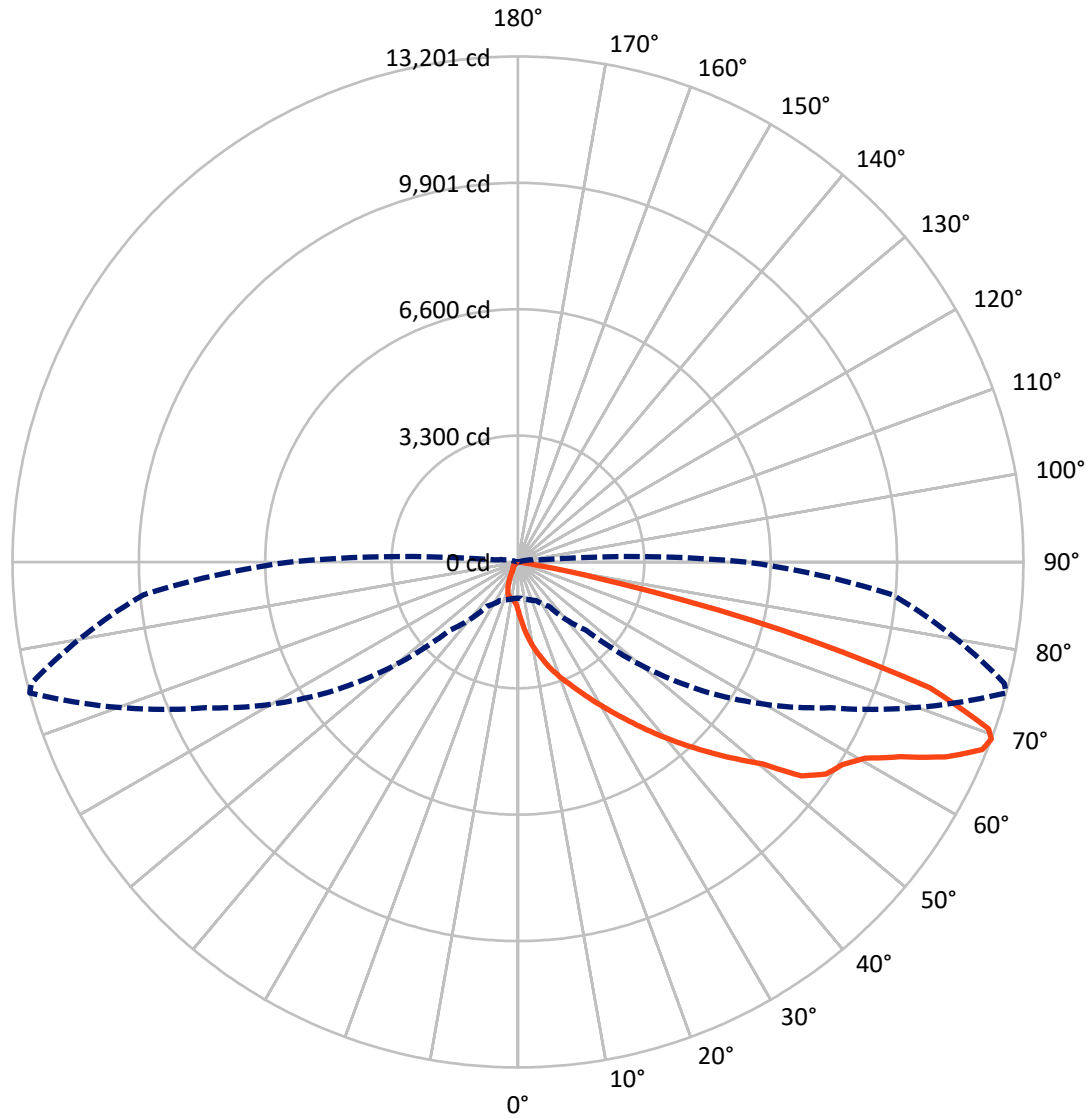
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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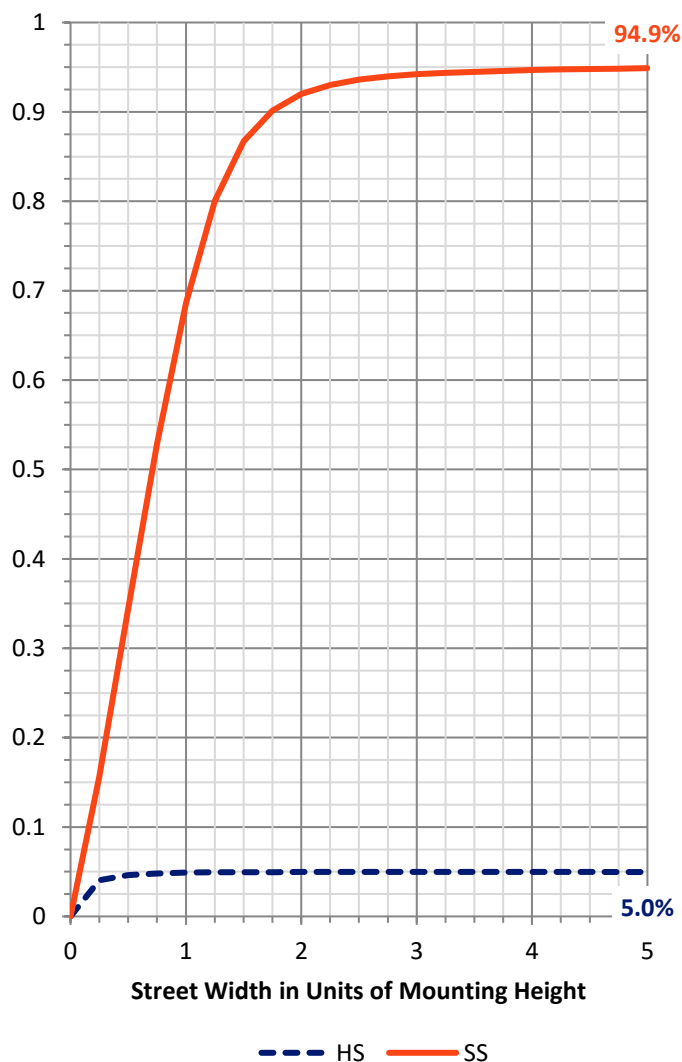
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	684.6	0.0	684.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	13037.2	0.0	13037.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	13721.8	0.0	13721.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	1.1
10°-20°	532.3	3.9
20°-30°	1016.1	7.4
30°-40°	1822.8	13.3
40°-50°	2792.6	20.4
50°-60°	3245.7	23.7
60°-70°	2874.1	20.9
70°-80°	1239.7	9.0
80°-90°	49.7	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°	13721.8	100.0
0°-180°	13721.8	100.0

Coefficient of Utilization



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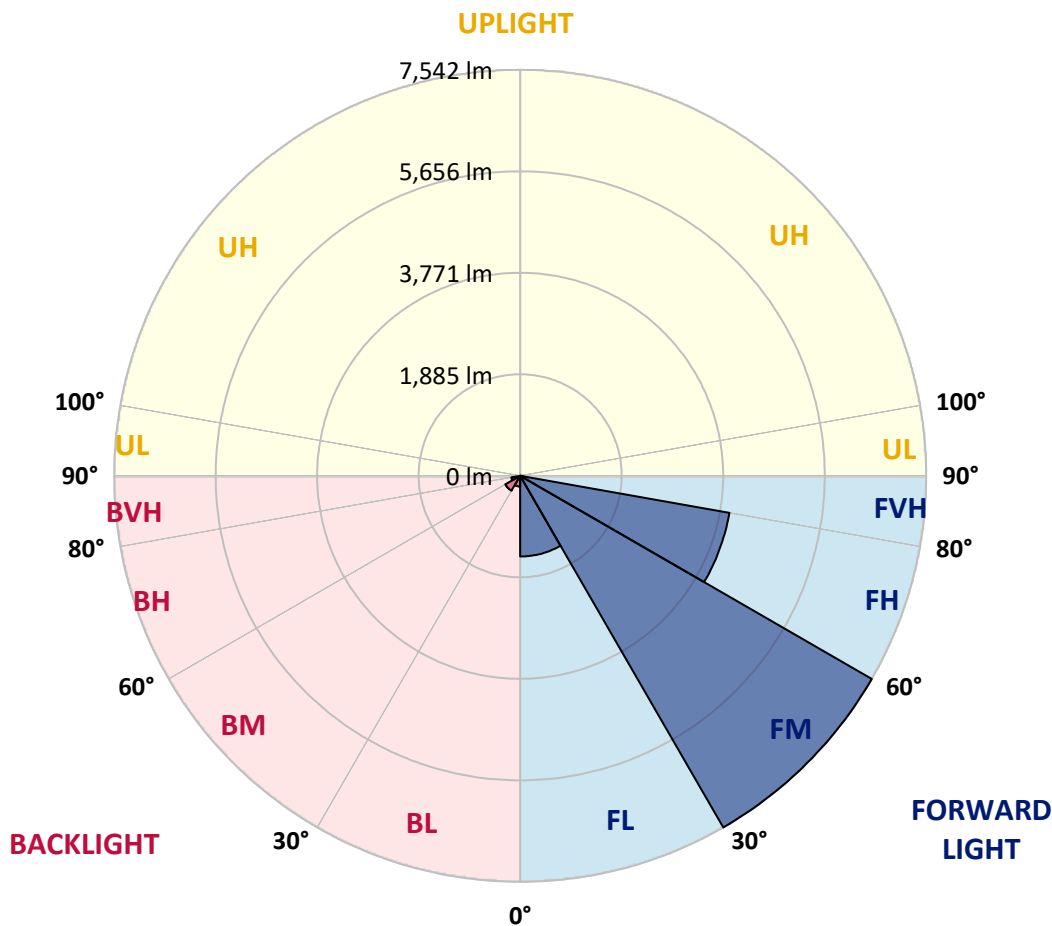
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1498.4	10.9			
FM (30°-60°)	7541.9	55.0			
FH (60°-80°)	3948.0	28.8			G2/5000
FVH (80°-90°)	48.9	0.4			G1/100
BL (0°-30°)	198.8	1.4	B1/500		
BM (30°-60°)	319.2	2.3	B1/1000		
BH (60°-80°)	165.9	1.2	B1/500		G1/500
BVH (80°-90°)	0.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1276.8	1276.8	1276.8	1276.8	1276.8	1276.8	1276.8	1276.8	1276.8	1276.8	1276.8
2.5°	2103.3	2082.6	2061.8	2038.1	1984.8	1893.0	1777.4	1653.1	1499.0	1472.4	1347.9
5°	2553.6	2544.7	2524.0	2491.4	2432.2	2331.5	2201.1	2017.5	1759.7	1715.3	1451.6
7.5°	2870.6	2864.7	2846.9	2808.4	2755.1	2654.4	2518.1	2319.6	2020.4	1970.1	1582.0
10°	3155.0	3152.0	3137.3	3101.7	3048.4	2938.7	2793.5	2586.1	2269.2	2212.9	1733.1
12.5°	3412.7	3415.7	3409.8	3392.0	3353.5	3249.8	3084.0	2858.8	2509.1	2447.0	1913.7
15°	3563.8	3572.7	3596.4	3632.0	3643.8	3560.9	3389.0	3140.2	2755.1	2701.8	2121.2
17.5°	3513.4	3522.3	3596.4	3717.9	3833.4	3845.3	3691.3	3406.8	2998.0	2944.6	2325.5
20°	3392.0	3403.9	3480.9	3646.7	3871.9	4028.9	3966.7	3697.2	3229.0	3163.9	2521.0
22.5°	3528.3	3528.3	3552.0	3652.6	3857.1	4103.0	4185.9	3987.4	3466.0	3386.1	2716.5
25°	3996.3	3987.4	3937.0	3895.6	3960.7	4180.0	4351.8	4283.7	3744.6	3652.6	2923.9
27.5°	4588.8	4630.3	4535.5	4384.5	4236.3	4331.1	4500.0	4577.0	4052.7	3957.8	3137.3
30°	5252.4	5270.2	5157.6	4956.2	4695.5	4603.6	4674.7	4828.8	4387.5	4283.7	3359.4
32.5°	5850.9	5836.0	5741.2	5530.9	5208.0	5009.5	4899.8	5030.2	4751.8	4633.2	3587.5
35°	6381.1	6393.0	6277.4	6034.5	5717.5	5507.2	5246.5	5258.3	5160.6	5024.3	3851.2
37.5°	6858.1	6837.3	6727.7	6484.7	6197.4	5969.4	5693.8	5495.3	5607.9	5465.7	4147.4
40°	7246.2	7225.5	7109.8	6872.9	6603.3	6416.7	6200.4	5812.4	6078.9	5916.1	4464.5
42.5°	7554.3	7530.5	7432.8	7204.7	6944.0	6778.1	6674.4	6203.4	6582.6	6419.6	4819.9
45°	7705.3	7684.6	7625.3	7453.5	7225.5	7080.2	7130.6	6653.7	7121.7	6985.5	5210.9
47.5°	7527.5	7518.6	7586.9	7557.3	7426.9	7349.9	7524.5	7145.4	7687.6	7554.3	5661.3
50°	6988.4	7003.2	7201.8	7447.5	7509.8	7601.6	7847.5	7663.9	8294.9	8152.7	6179.7
52.5°	5658.3	5758.9	6357.4	6949.9	7409.1	7755.7	8226.6	8404.4	9284.3	9145.1	6988.4
55°	4224.4	4265.9	4917.6	5930.8	7003.2	7743.9	8508.1	8839.9	9773.1	9630.8	7201.8
57.5°	3350.6	3365.3	3688.3	4722.1	6167.8	7477.2	8656.3	8997.0	9986.4	9867.9	7518.6
60°	2630.6	2648.5	2882.5	3593.4	4991.7	6757.3	8443.0	9133.2	10404.1	10309.2	8072.6
62.5°	2047.1	2064.8	2207.0	2624.7	3744.6	5649.4	8013.4	9352.5	11198.1	11153.6	8979.2
65°	1585.0	1590.9	1688.6	1884.0	2645.5	4449.6	7489.0	9556.9	12270.5	12231.9	9713.9
67.5°	1170.1	1179.0	1247.2	1368.7	1786.4	3196.5	6630.0	9399.8	13079.2	12966.7	9980.5
69°	945.0	954.0	1013.2	1110.9	1410.1	2518.1	5845.0	9011.8	13200.7	13094.0	9811.6
70°	808.7	814.6	874.0	956.9	1202.7	2138.9	5222.8	8677.1	13040.7	12937.1	9426.6
72.5°	518.4	548.1	607.3	660.6	796.9	1416.0	3525.4	7195.9	11251.4	11073.7	7382.4
75°	287.4	296.2	402.8	468.0	530.2	921.3	1961.1	4488.2	7157.2	7032.8	3948.9
77.5°	237.0	242.9	284.4	355.5	355.5	515.4	740.6	1768.6	2722.5	2455.8	1069.4
80°	165.8	171.9	216.3	234.1	254.8	290.3	240.0	388.1	420.6	373.2	159.9
82.5°	115.5	121.5	148.1	192.6	204.5	136.2	88.8	115.5	121.5	121.5	62.2
85°	20.8	29.6	109.6	159.9	121.5	41.5	50.4	41.5	38.5	41.5	14.9
87.5°	0.0	0.0	68.2	77.0	65.2	17.8	20.8	14.9	8.8	11.8	5.9
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°	1276.8	1276.8	1276.8	1276.8	1276.8	1276.8	1276.8	1276.8	1276.8	1276.8	1276.8
2.5°	1285.7	1223.4	1116.8	1039.8	974.6	924.4	903.6	870.9	847.3	859.1	844.2
5°	1321.3	1211.6	1039.8	930.3	853.2	788.0	734.7	693.2	660.6	654.7	648.8
7.5°	1377.5	1220.5	995.4	859.1	743.6	642.9	560.0	497.6	450.2	450.2	432.5
10°	1454.6	1244.3	968.7	788.0	616.2	479.8	396.9	337.7	314.0	311.1	305.2
12.5°	1561.2	1288.7	948.0	696.2	479.8	349.5	299.3	278.5	269.6	266.6	263.7
15°	1706.4	1353.8	924.4	583.6	364.4	287.4	266.6	248.9	240.0	237.0	234.1
17.5°	1845.6	1413.0	874.0	468.0	296.2	260.7	237.0	222.3	210.4	207.4	207.4
20°	1976.0	1463.4	788.0	364.4	266.6	234.1	210.4	192.6	180.8	177.8	177.8
22.5°	2112.2	1504.9	681.3	296.2	242.9	207.4	183.7	165.8	154.0	151.1	148.1
25°	2257.4	1534.5	560.0	263.7	219.2	183.7	157.0	142.1	133.3	130.3	127.4
27.5°	2414.4	1546.3	444.3	240.0	192.6	159.9	136.2	121.5	115.5	112.5	112.5
30°	2556.5	1534.5	343.6	213.3	168.8	139.2	118.5	106.6	100.7	97.8	97.8
32.5°	2704.7	1504.9	275.6	189.6	148.1	118.5	100.7	91.9	88.8	85.9	85.9
35°	2861.7	1466.4	237.0	168.8	127.4	103.7	88.8	82.9	80.0	77.0	77.0
37.5°	3045.4	1419.1	216.3	151.1	112.5	91.9	77.0	74.1	71.1	71.1	71.1
40°	3252.7	1359.7	201.5	136.2	100.7	80.0	68.2	65.2	62.2	62.2	62.2
42.5°	3472.0	1291.7	186.7	121.5	88.8	68.2	59.2	59.2	56.3	56.3	53.3
45°	3717.9	1223.4	171.9	106.6	77.0	59.2	50.4	47.4	47.4	44.5	44.5
47.5°	4008.1	1161.3	157.0	94.8	68.2	50.4	44.5	41.5	38.5	35.5	35.5
50°	4417.1	1155.3	139.2	82.9	62.2	41.5	35.5	32.6	29.6	26.7	26.7
52.5°	4822.8	1102.0	118.5	68.2	50.4	35.5	26.7	23.7	20.8	20.8	17.8
55°	4914.7	1013.2	103.7	59.2	38.5	26.7	20.8	14.9	14.9	11.8	11.8
57.5°	5116.2	971.7	88.8	47.4	29.6	20.8	11.8	8.8	8.8	8.8	8.8
60°	5513.1	959.9	77.0	41.5	20.8	14.9	8.8	5.9	5.9	2.9	2.9
62.5°	6061.1	948.0	65.2	35.5	14.9	8.8	5.9	2.9	0.0	0.0	0.0
65°	6363.4	867.9	53.3	26.7	11.8	8.8	2.9	0.0	0.0	0.0	0.0
67.5°	6283.4	717.0	47.4	17.8	8.8	5.9	2.9	0.0	0.0	0.0	0.0
69°	5948.6	604.3	38.5	14.9	8.8	5.9	2.9	0.0	0.0	0.0	0.0
70°	5545.7	521.3	35.5	11.8	5.9	2.9	2.9	0.0	0.0	0.0	0.0
72.5°	3937.0	272.5	23.7	8.8	5.9	2.9	0.0	0.0	0.0	0.0	0.0
75°	1839.7	121.5	14.9	5.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0
77.5°	405.9	56.3	8.8	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	77.0	20.8	5.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	26.7	8.8	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	0.0	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)