

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: P236952

Luminaire Tested: **ARCH-L-AF72-190-D-U-T2R-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236952
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-AF72-190-D-U-T2R-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 810mA 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: 17976.5 lumens
Efficiency: N/A
Efficacy: 95.1 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): 189
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

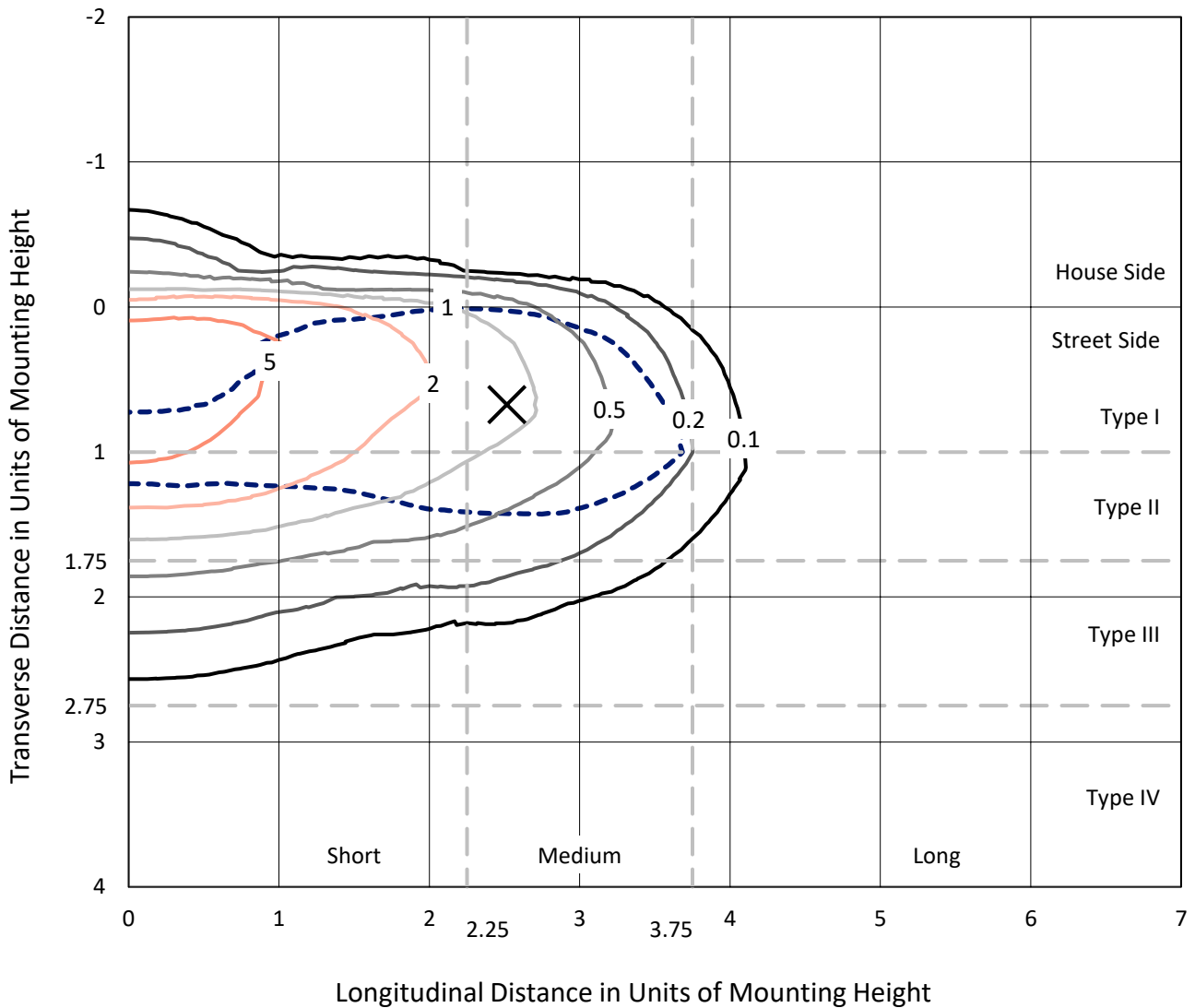


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Iso-Footcandle Lines of Horizontal Illumination

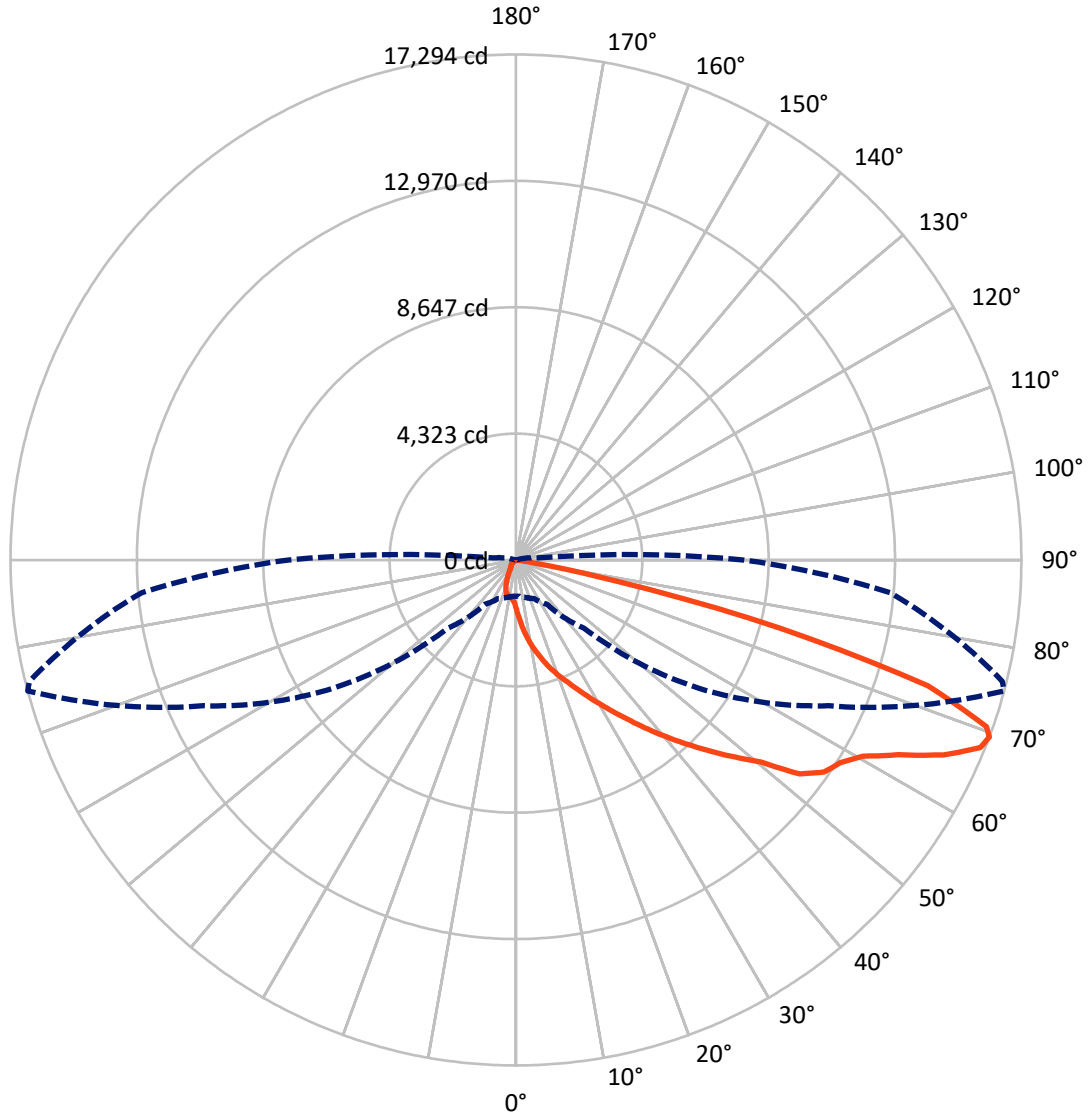
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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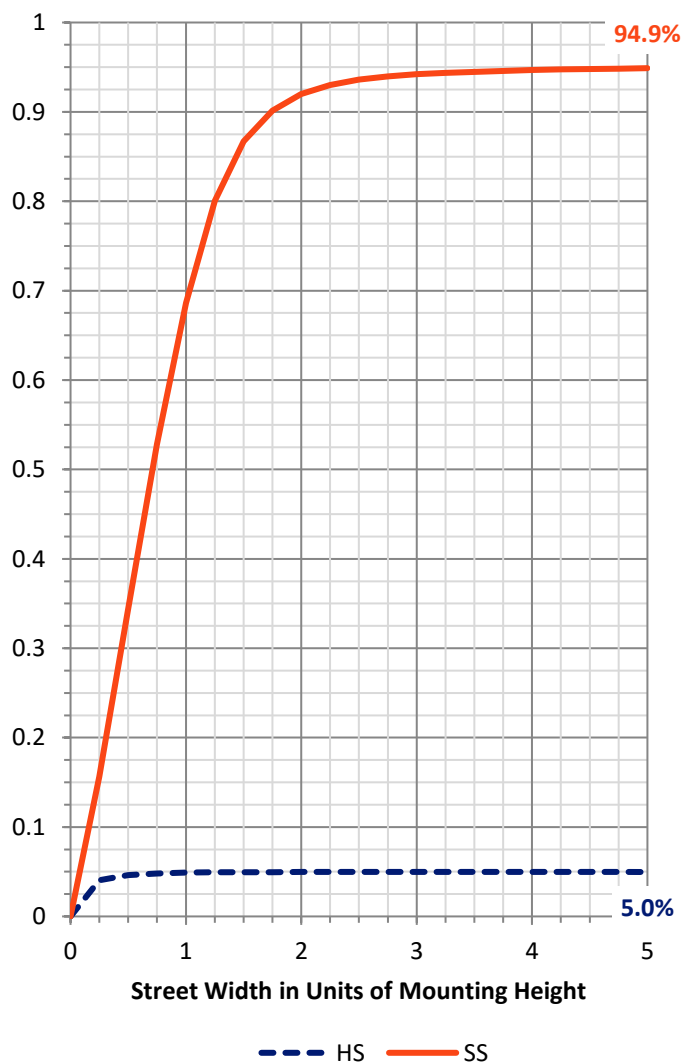
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	896.9	0.0	896.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	17079.5	0.0	17079.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	17976.5	0.0	17976.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.0	1.1
10°-20°	697.3	3.9
20°-30°	1331.2	7.4
30°-40°	2387.9	13.3
40°-50°	3658.5	20.4
50°-60°	4252.1	23.7
60°-70°	3765.3	20.9
70°-80°	1624.1	9.0
80°-90°	65.1	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°	17976.5	100.0
0°-180°	17976.5	100.0

Coefficient of Utilization



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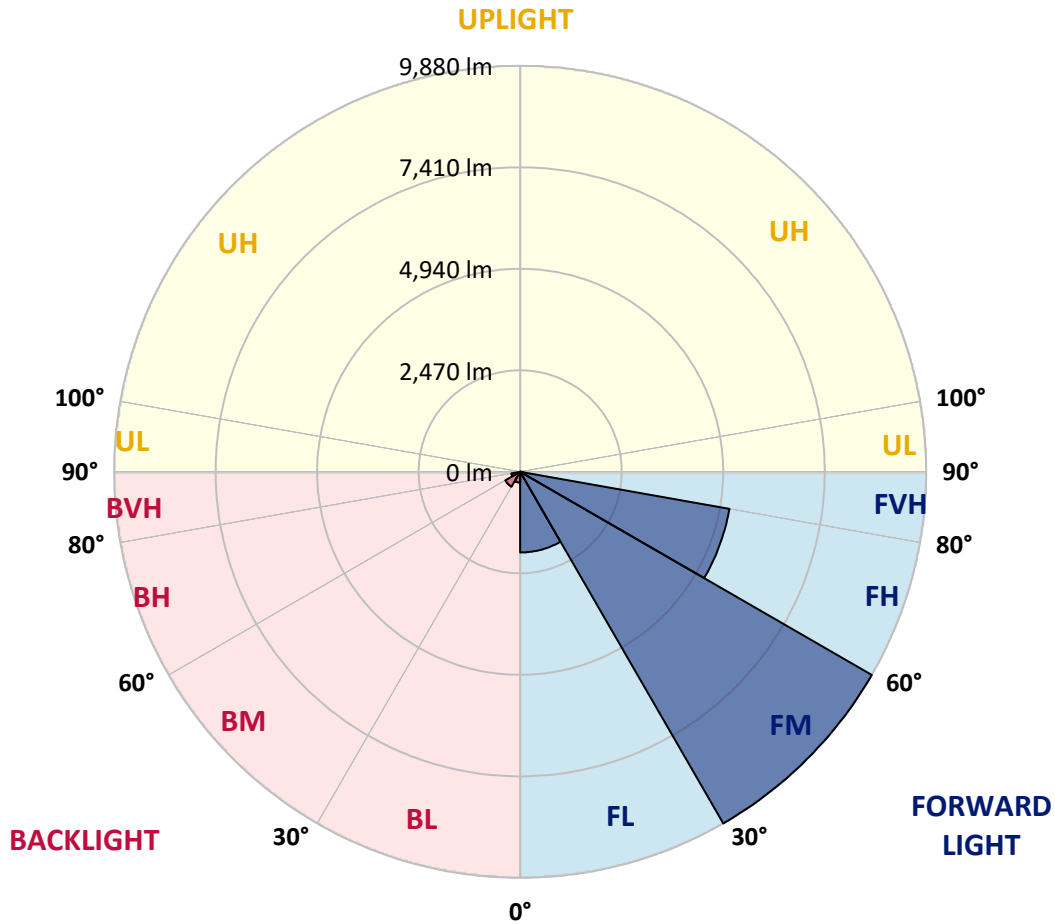
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1963.1	10.9			
FM (30°-60°)	9880.3	55.0			
FH (60°-80°)	5172.1	28.8			G3/7500
FVH (80°-90°)	64.1	0.4			G1/100
BL (0°-30°)	260.5	1.4	B1/500		
BM (30°-60°)	418.2	2.3	B1/1000		
BH (60°-80°)	217.3	1.2	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1672.6	1672.6	1672.6	1672.6	1672.6	1672.6	1672.6	1672.6	1672.6	1672.6	1672.6
2.5°	2755.5	2728.3	2701.1	2670.1	2600.3	2479.9	2328.6	2165.6	1963.8	1928.9	1765.8
5°	3345.4	3333.7	3306.6	3263.9	3186.3	3054.4	2883.6	2643.0	2305.3	2247.1	1901.6
7.5°	3760.7	3752.9	3729.6	3679.2	3609.3	3477.4	3298.9	3038.8	2646.8	2580.8	2072.4
10°	4133.3	4129.4	4110.0	4063.4	3993.5	3850.0	3659.7	3388.1	2972.8	2899.0	2270.4
12.5°	4470.9	4474.7	4466.9	4443.7	4393.4	4257.4	4040.1	3745.2	3287.2	3205.6	2507.1
15°	4668.7	4680.4	4711.5	4758.0	4773.6	4665.0	4439.9	4113.8	3609.3	3539.5	2778.8
17.5°	4602.9	4614.4	4711.5	4870.7	5022.0	5037.5	4835.7	4463.1	3927.6	3857.7	3046.5
20°	4443.7	4459.2	4560.2	4777.5	5072.5	5278.1	5196.6	4843.5	4230.3	4144.9	3302.7
22.5°	4622.2	4622.2	4653.3	4785.2	5053.0	5375.1	5483.8	5223.8	4540.7	4435.9	3558.9
25°	5235.4	5223.8	5157.8	5103.5	5188.8	5476.1	5701.1	5611.9	4905.5	4785.2	3830.5
27.5°	6011.7	6066.0	5941.7	5743.9	5549.9	5674.0	5895.2	5996.1	5309.1	5185.0	4110.0
30°	6880.9	6904.2	6756.8	6492.8	6151.3	6031.0	6124.2	6326.0	5747.7	5611.9	4401.1
32.5°	7665.0	7645.5	7521.3	7245.7	6822.8	6562.7	6419.1	6589.9	6225.0	6069.8	4699.9
35°	8359.7	8375.2	8223.8	7905.6	7490.3	7214.7	6873.2	6888.7	6760.6	6582.1	5045.3
37.5°	8984.5	8957.3	8813.7	8495.5	8118.9	7820.1	7459.2	7199.2	7346.7	7160.5	5433.4
40°	9492.9	9465.6	9314.4	9003.8	8650.7	8406.2	8122.9	7614.5	7963.8	7750.3	5848.6
42.5°	9896.4	9865.4	9737.4	9438.6	9097.0	8879.7	8743.8	8126.8	8623.5	8410.1	6314.3
45°	10094.5	10067.2	9989.6	9764.5	9465.6	9275.6	9341.5	8716.7	9329.8	9151.3	6826.6
47.5°	9861.5	9849.9	9939.2	9900.4	9729.6	9628.7	9857.7	9360.9	10071.1	9896.4	7416.5
50°	9155.3	9174.6	9434.6	9756.8	9838.2	9958.6	10280.8	10040.1	10866.7	10680.4	8095.7
52.5°	7412.7	7544.6	8328.7	9104.8	9706.3	10160.3	10777.5	11010.3	12163.0	11980.6	9155.3
55°	5534.3	5588.6	6442.4	7769.8	9174.6	10144.8	11146.2	11580.8	12803.3	12617.0	9434.6
57.5°	4389.4	4408.8	4831.8	6186.3	8080.2	9795.5	11340.2	11786.6	13082.8	12927.5	9849.9
60°	3446.2	3469.6	3776.2	4707.7	6539.5	8852.5	11060.8	11965.1	13630.0	13505.7	10575.6
62.5°	2681.8	2705.0	2891.3	3438.5	4905.5	7401.0	10498.0	12252.3	14670.1	14611.9	11763.2
65°	2076.4	2084.1	2212.2	2468.2	3465.7	5829.2	9811.2	12520.0	16075.0	16024.5	12725.8
67.5°	1533.0	1544.6	1633.9	1793.1	2340.3	4187.6	8685.7	12314.3	17134.5	16987.0	13074.9
69°	1238.0	1249.7	1327.3	1455.4	1847.3	3298.9	7657.1	11805.9	17293.7	17153.9	12853.8
70°	1059.5	1067.3	1144.9	1253.5	1575.6	2802.1	6842.2	11367.4	17084.0	16948.2	12349.2
72.5°	679.1	718.0	795.6	865.5	1044.0	1855.1	4618.4	9426.9	14739.9	14507.1	9671.4
75°	376.5	388.1	527.8	613.2	694.7	1207.0	2569.2	5879.7	9376.4	9213.4	5173.3
77.5°	310.6	318.3	372.6	465.7	465.7	675.3	970.2	2317.0	3566.7	3217.3	1401.0
80°	217.3	225.1	283.3	306.6	333.8	380.3	314.3	508.4	551.1	489.1	209.6
82.5°	151.4	159.1	194.1	252.3	267.8	178.5	116.5	151.4	159.1	159.1	81.5
85°	27.2	38.8	143.5	209.6	159.1	54.3	66.0	54.3	50.5	54.3	19.4
87.5°	0.0	0.0	89.3	100.9	85.3	23.3	27.2	19.4	11.7	15.6	7.7
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°	1672.6	1672.6	1672.6	1672.6	1672.6	1672.6	1672.6	1672.6	1672.6	1672.6	1672.6
2.5°	1684.3	1602.9	1463.1	1362.3	1276.8	1210.8	1183.8	1141.0	1110.0	1125.5	1106.0
5°	1730.8	1587.3	1362.3	1218.7	1117.7	1032.4	962.5	908.2	865.5	857.6	849.9
7.5°	1804.6	1599.0	1304.0	1125.5	974.1	842.2	733.4	651.9	589.9	589.9	566.6
10°	1905.6	1630.0	1269.0	1032.4	807.2	628.7	520.1	442.4	411.4	407.5	399.8
12.5°	2045.3	1688.3	1242.0	912.0	628.7	457.9	392.0	364.8	353.1	349.3	345.4
15°	2235.5	1773.6	1210.8	764.6	477.4	376.5	349.3	326.0	314.3	310.6	306.6
17.5°	2417.8	1851.2	1144.9	613.2	388.1	341.6	310.6	291.0	275.6	271.6	271.6
20°	2588.6	1917.2	1032.4	477.4	349.3	306.6	275.6	252.3	236.8	232.8	232.8
22.5°	2767.1	1971.6	892.6	388.1	318.3	271.6	240.6	217.3	201.8	198.0	194.1
25°	2957.3	2010.4	733.4	345.4	287.3	240.6	205.7	186.3	174.6	170.8	166.8
27.5°	3162.9	2025.8	582.2	314.3	252.3	209.6	178.5	159.1	151.4	147.5	147.5
30°	3349.3	2010.4	450.1	279.3	221.2	182.4	155.2	139.8	131.9	128.1	128.1
32.5°	3543.3	1971.6	360.9	248.3	194.1	155.2	131.9	120.3	116.5	112.5	112.5
35°	3749.0	1921.1	310.6	221.2	166.8	135.8	116.5	108.7	104.8	100.9	100.9
37.5°	3989.6	1858.9	283.3	198.0	147.5	120.3	100.9	97.0	93.1	93.1	93.1
40°	4261.3	1781.4	263.9	178.5	131.9	104.8	89.3	85.3	81.5	81.5	81.5
42.5°	4548.5	1692.1	244.5	159.1	116.5	89.3	77.6	77.6	73.8	73.8	69.8
45°	4870.7	1602.9	225.1	139.8	100.9	77.6	66.0	62.1	62.1	58.2	58.2
47.5°	5251.0	1521.3	205.7	124.2	89.3	66.0	58.2	54.3	50.5	46.6	46.6
50°	5786.5	1513.6	182.4	108.7	81.5	54.3	46.6	42.7	38.8	35.0	35.0
52.5°	6318.3	1443.8	155.2	89.3	66.0	46.6	35.0	31.0	27.2	27.2	23.3
55°	6438.5	1327.3	135.8	77.6	50.5	35.0	27.2	19.4	19.4	15.6	15.6
57.5°	6702.4	1273.0	116.5	62.1	38.8	27.2	15.6	11.7	11.7	11.7	11.7
60°	7222.5	1257.5	100.9	54.3	27.2	19.4	11.7	7.7	7.7	4.0	4.0
62.5°	7940.5	1242.0	85.3	46.6	19.4	11.7	7.7	4.0	0.0	0.0	0.0
65°	8336.4	1137.2	69.8	35.0	15.6	11.7	4.0	0.0	0.0	0.0	0.0
67.5°	8231.6	939.2	62.1	23.3	11.7	7.7	4.0	0.0	0.0	0.0	0.0
69°	7793.0	791.7	50.5	19.4	11.7	7.7	4.0	0.0	0.0	0.0	0.0
70°	7265.2	683.1	46.6	15.6	7.7	4.0	4.0	0.0	0.0	0.0	0.0
72.5°	5157.8	357.1	31.0	11.7	7.7	4.0	0.0	0.0	0.0	0.0	0.0
75°	2410.0	159.1	19.4	7.7	4.0	4.0	0.0	0.0	0.0	0.0	0.0
77.5°	531.6	73.8	11.7	7.7	4.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	100.9	27.2	7.7	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.0	11.7	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.7	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	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)