

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: P399970

Luminaire Tested: **ARCH-L-PA3-210-830-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-210-830-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17353 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

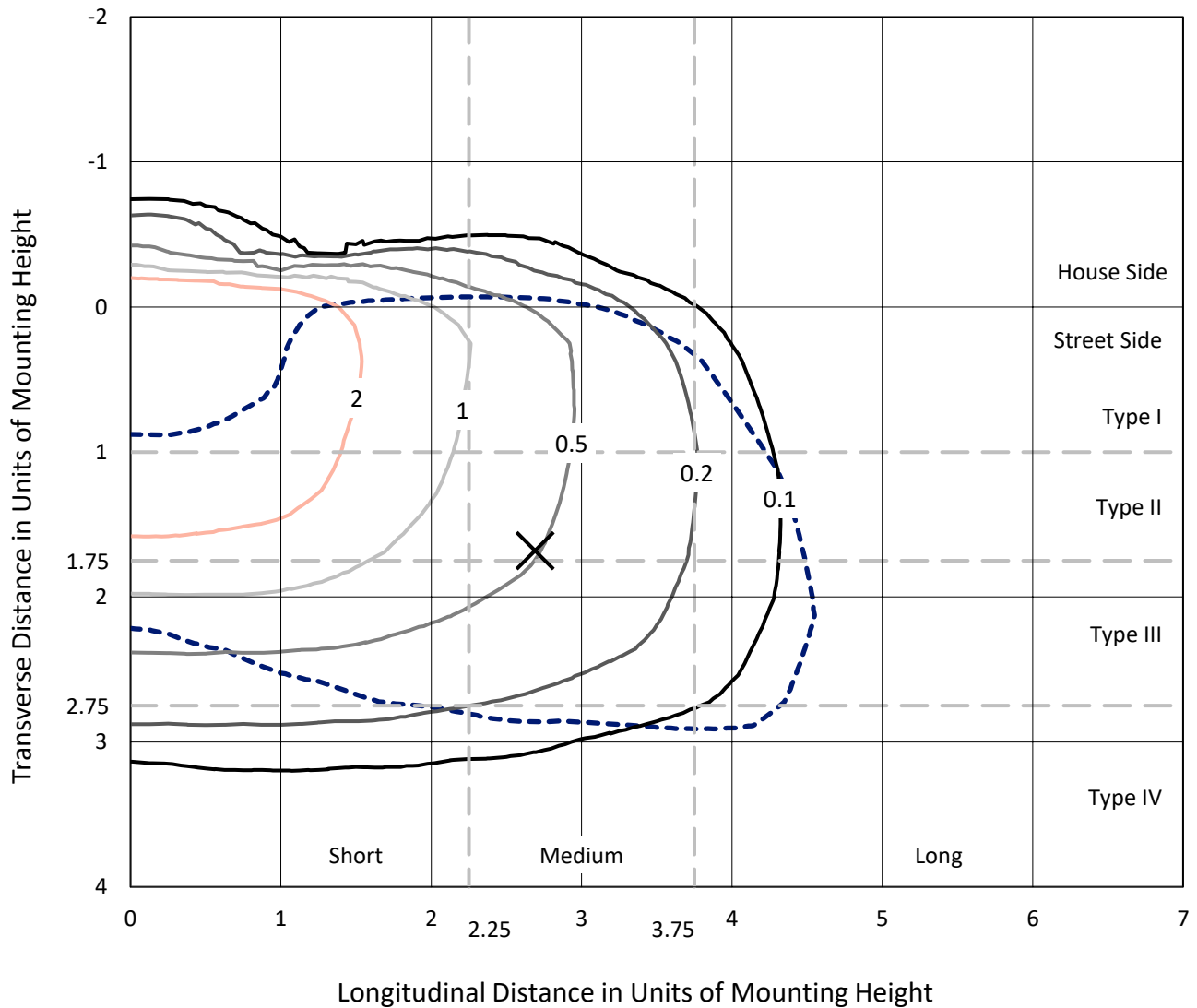
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

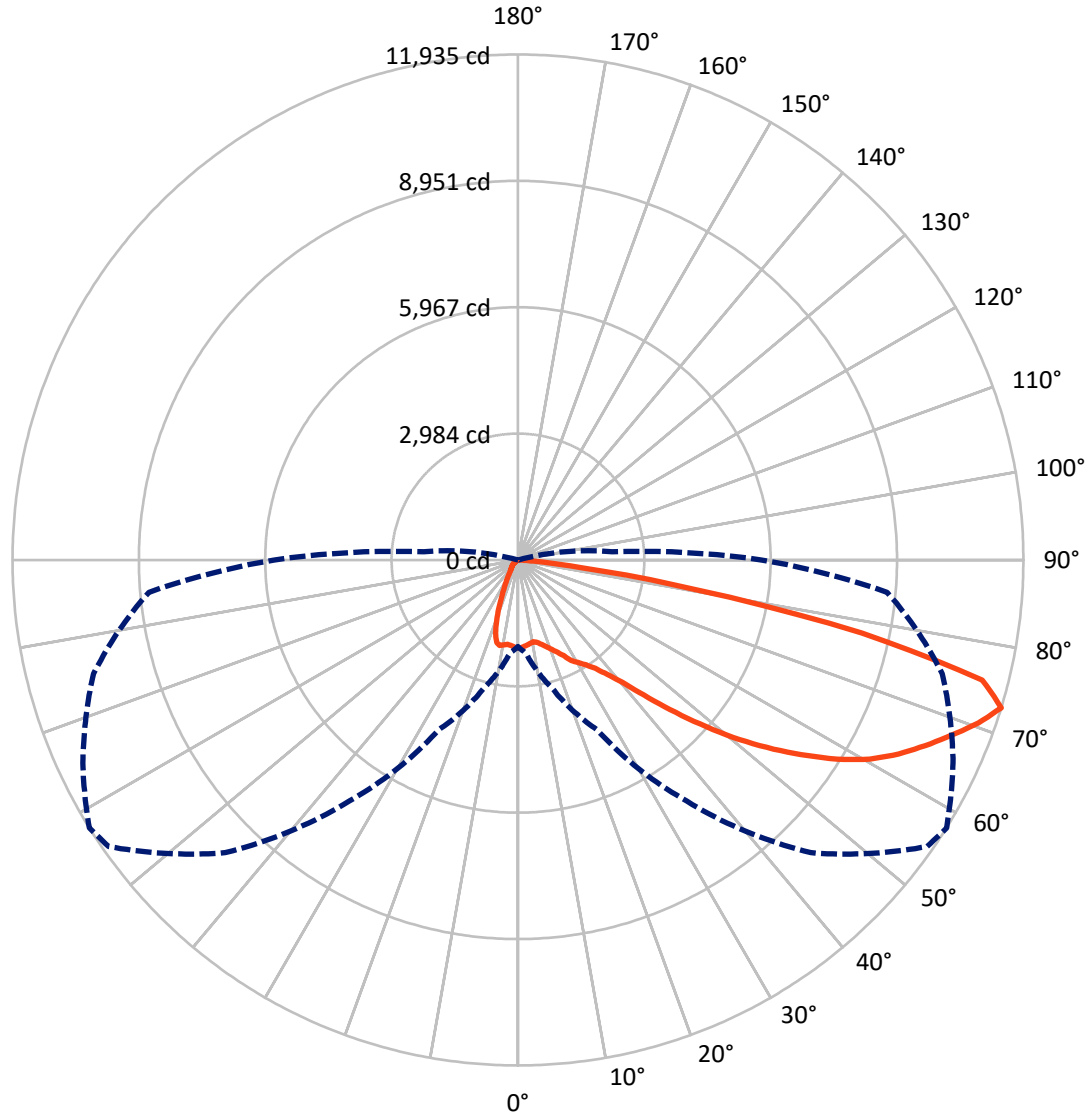
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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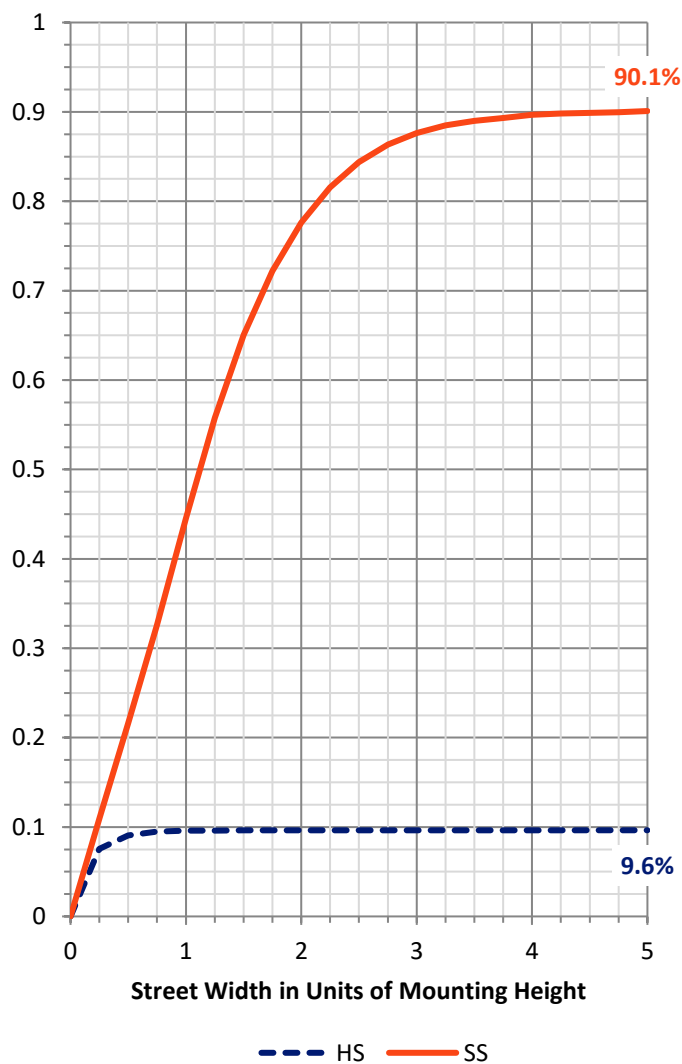
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1687.4	0.0	1687.4
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	15665.5	0.0	15665.5
	% Fixture	90.3	0.0	90.3
Total	Lumens	17353.0	0.0	17353.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.1	1.1
10°-20°	497.7	2.9
20°-30°	781.9	4.5
30°-40°	1348.5	7.8
40°-50°	2565.5	14.8
50°-60°	4063.0	23.4
60°-70°	4741.0	27.3
70°-80°	2969.3	17.1
80°-90°	194.9	1.1
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°	17353.0	100.0
0°-180°	17353.0	100.0

Coefficient of Utilization

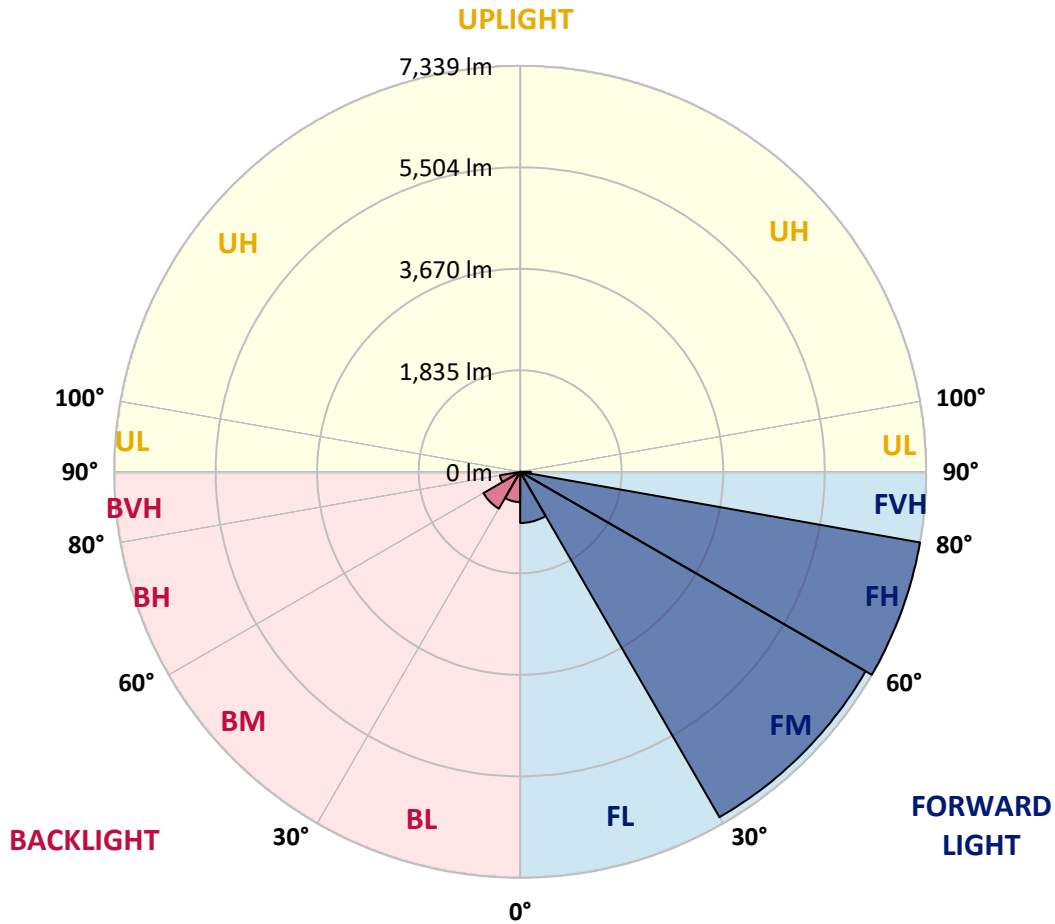


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	924.3	5.3			
FM (30°-60°)	7209.2	41.5			
FH (60°-80°)	7339.1	42.3			G3/7500
FVH (80°-90°)	193.0	1.1			G2/225
BL (0°-30°)	546.5	3.1	B2/1000		
BM (30°-60°)	767.8	4.4	B1/1000		
BH (60°-80°)	371.3	2.1	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3
2.5°	2072.9	2063.6	2060.5	2057.4	2060.5	2063.6	2054.3	2063.6	2057.4	2060.5	2066.7
5°	1998.5	1989.2	1986.1	1989.2	1998.5	2014.0	2020.2	2029.5	2029.5	2038.8	2041.9
7.5°	1914.7	1908.5	1905.4	1911.6	1930.2	1964.3	1983.0	1995.4	2007.8	2026.4	2045.0
10°	1868.1	1865.0	1861.9	1871.2	1889.9	1920.9	1945.7	1964.3	2010.9	2063.6	2097.8
12.5°	1837.1	1837.1	1843.3	1861.9	1886.8	1911.6	1970.5	1995.4	2066.7	2147.4	2194.0
15°	1812.3	1812.3	1821.6	1855.7	1889.9	1948.8	2035.7	2063.6	2147.4	2246.7	2308.8
17.5°	1793.7	1799.9	1806.1	1840.2	1905.4	2004.7	2107.1	2147.4	2249.8	2358.4	2426.7
20°	1796.8	1803.0	1806.1	1840.2	1933.3	2069.8	2200.2	2246.7	2364.6	2479.5	2547.7
22.5°	1815.4	1824.7	1827.8	1874.3	1983.0	2138.1	2305.7	2358.4	2485.7	2606.7	2659.5
25°	1893.0	1899.2	1880.5	1920.9	2054.3	2243.6	2442.2	2498.1	2625.3	2737.0	2780.5
27.5°	2156.7	2162.9	2060.5	2014.0	2110.2	2330.5	2609.8	2687.4	2845.6	2920.1	2926.3
30°	2727.7	2733.9	2532.2	2311.9	2243.6	2405.0	2702.9	2811.5	3016.3	3100.1	3062.9
32.5°	3463.2	3457.0	3180.8	2855.0	2560.1	2535.3	2836.3	2951.2	3174.6	3255.3	3227.3
35°	4201.7	4211.1	3975.2	3484.9	3062.9	2780.5	3007.0	3140.4	3410.4	3525.2	3475.6
37.5°	4707.6	4769.6	4667.2	4136.6	3680.4	3233.5	3283.2	3425.9	3764.2	3919.4	3813.8
40°	5421.3	5405.8	5157.5	4766.5	4363.1	3903.8	3730.1	3798.3	4186.2	4394.1	4229.7
42.5°	6380.2	6349.2	5927.1	5545.4	5095.5	4720.0	4366.2	4353.8	4670.3	4912.4	4673.4
45°	7249.1	7202.6	6914.0	6544.7	6051.3	5619.9	5142.0	5033.4	5253.7	5458.5	5179.3
47.5°	7941.1	7863.5	7658.7	7463.2	7342.2	6671.9	5955.1	5790.6	5902.3	6054.4	5660.3
50°	8760.4	8546.2	8248.3	8130.4	8381.8	7863.5	6737.1	6578.8	6572.6	6659.5	6156.8
52.5°	9132.7	8744.8	8577.3	8676.6	9120.3	8971.4	7581.1	7354.6	7264.6	7273.9	6619.1
55°	8682.8	8639.3	8729.3	9039.7	9620.0	9533.1	8391.1	8111.8	7978.4	7810.8	7062.9
57.5°	8170.8	8304.2	8661.1	9253.8	10253.0	10119.6	9188.6	8872.1	8626.9	8242.1	7556.3
60°	7699.1	7835.6	8425.2	9303.4	10600.6	10684.4	9852.7	9551.7	9188.6	8682.8	8099.4
62.5°	6982.2	7087.7	7916.3	9232.1	10448.5	11013.3	10315.1	10088.5	9750.3	9101.7	8723.1
65°	6175.4	6243.7	7062.9	8661.1	10150.6	10976.1	10696.8	10569.5	10240.6	9539.3	9340.7
67.5°	5291.0	5371.7	6054.4	7633.9	9567.2	10802.3	11056.7	11044.3	10668.8	10023.4	9787.5
70°	4273.1	4279.3	4844.1	6330.5	8549.3	10454.7	11503.6	11531.5	11078.5	10386.4	9806.1
72.5°	2045.0	2212.6	3140.4	4419.0	6948.1	9772.0	11795.3	11934.9	11336.0	10374.0	8748.0
75°	468.6	484.1	915.4	2100.9	4074.5	7500.5	11066.0	11326.7	10709.2	8971.4	6163.0
77.5°	170.7	180.0	257.6	614.4	1567.1	3875.9	7919.4	8301.1	7916.3	5799.9	2913.9
80°	114.8	111.7	133.4	273.1	719.9	1098.5	4049.7	4276.2	3903.8	1979.8	698.2
82.5°	59.0	62.1	93.1	152.1	484.1	381.7	1353.0	1470.9	1210.3	397.2	130.3
85°	27.9	27.9	52.8	96.2	204.8	133.4	301.0	363.1	325.8	173.8	43.4
87.5°	27.9	27.9	49.7	62.1	105.5	55.9	74.5	93.1	86.9	93.1	15.5
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°	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3
2.5°	2066.7	2063.6	2060.5	2066.7	2063.6	2069.8	2069.8	2076.0	2076.0	2069.8	2066.7
5°	2038.8	2032.6	2026.4	2026.4	2023.3	2029.5	2048.1	2063.6	2066.7	2057.4	2054.3
7.5°	2041.9	2041.9	2035.7	2023.3	2001.6	2001.6	2001.6	2020.2	2029.5	2023.3	2020.2
10°	2097.8	2100.9	2085.4	2057.4	2020.2	1986.1	1920.9	1824.7	1734.7	1709.9	1700.6
12.5°	2194.0	2197.1	2166.0	2116.4	2038.8	1837.1	1588.8	1359.2	1182.3	1132.7	1123.4
15°	2308.8	2311.9	2256.0	2175.4	1939.5	1470.9	1101.6	841.0	685.8	648.6	645.5
17.5°	2426.7	2420.5	2336.7	2181.6	1644.7	1042.7	670.3	536.9	496.5	487.2	490.3
20°	2541.5	2522.9	2408.1	2066.7	1266.1	682.7	490.3	459.3	450.0	443.8	443.8
22.5°	2647.0	2609.8	2467.1	1840.2	887.5	490.3	437.6	431.3	418.9	409.6	406.5
25°	2752.5	2699.8	2504.3	1545.4	595.8	428.2	412.7	400.3	384.8	372.4	369.3
27.5°	2879.8	2805.3	2485.7	1173.0	446.9	397.2	384.8	366.2	344.5	325.8	319.6
30°	3000.8	2917.0	2380.2	809.9	381.7	366.2	347.6	319.6	291.7	270.0	263.8
32.5°	3152.9	3056.7	2190.9	530.6	332.0	319.6	301.0	266.9	229.6	204.8	198.6
35°	3370.1	3261.5	1948.8	372.4	291.7	270.0	245.2	207.9	167.6	149.0	145.9
37.5°	3674.2	3528.4	1644.7	301.0	257.6	226.5	189.3	152.1	124.1	108.6	105.5
40°	4046.6	3823.2	1306.5	266.9	229.6	189.3	142.7	108.6	90.0	77.6	77.6
42.5°	4450.0	4099.3	962.0	245.2	201.7	155.2	105.5	77.6	65.2	59.0	55.9
45°	4865.8	4344.5	648.6	226.5	176.9	117.9	74.5	52.8	43.4	43.4	40.3
47.5°	5297.2	4509.0	418.9	204.8	149.0	86.9	49.7	37.2	31.0	31.0	31.0
50°	5725.4	4595.9	297.9	186.2	121.0	59.0	37.2	27.9	24.8	24.8	24.8
52.5°	6035.7	4540.0	238.9	161.4	93.1	43.4	27.9	21.7	18.6	18.6	18.6
55°	6305.7	4443.8	207.9	139.6	68.3	31.0	21.7	18.6	15.5	15.5	15.5
57.5°	6581.9	4319.7	186.2	117.9	49.7	21.7	15.5	12.4	12.4	12.4	12.4
60°	6833.3	4108.7	161.4	93.1	34.1	15.5	12.4	9.3	9.3	9.3	9.3
62.5°	7078.4	3928.7	139.6	71.4	24.8	12.4	6.2	6.2	3.1	3.1	3.1
65°	7218.1	3686.6	111.7	46.5	15.5	9.3	3.1	3.1	0.0	0.0	0.0
67.5°	7174.6	3398.0	77.6	27.9	9.3	6.2	3.1	0.0	0.0	0.0	0.0
70°	6873.6	3010.1	46.5	15.5	9.3	6.2	3.1	0.0	0.0	0.0	0.0
72.5°	5756.5	2228.1	27.9	12.4	6.2	3.1	0.0	0.0	0.0	0.0	0.0
75°	3844.9	1024.1	15.5	9.3	3.1	3.1	0.0	0.0	0.0	0.0	0.0
77.5°	1759.5	307.2	9.3	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	353.8	80.7	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	74.5	15.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.5	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	3.1	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)