

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: P400258

Luminaire Tested: **ARCH-L-PA3-250-830-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400258
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-PA3-250-830-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1070mA 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: 19471 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

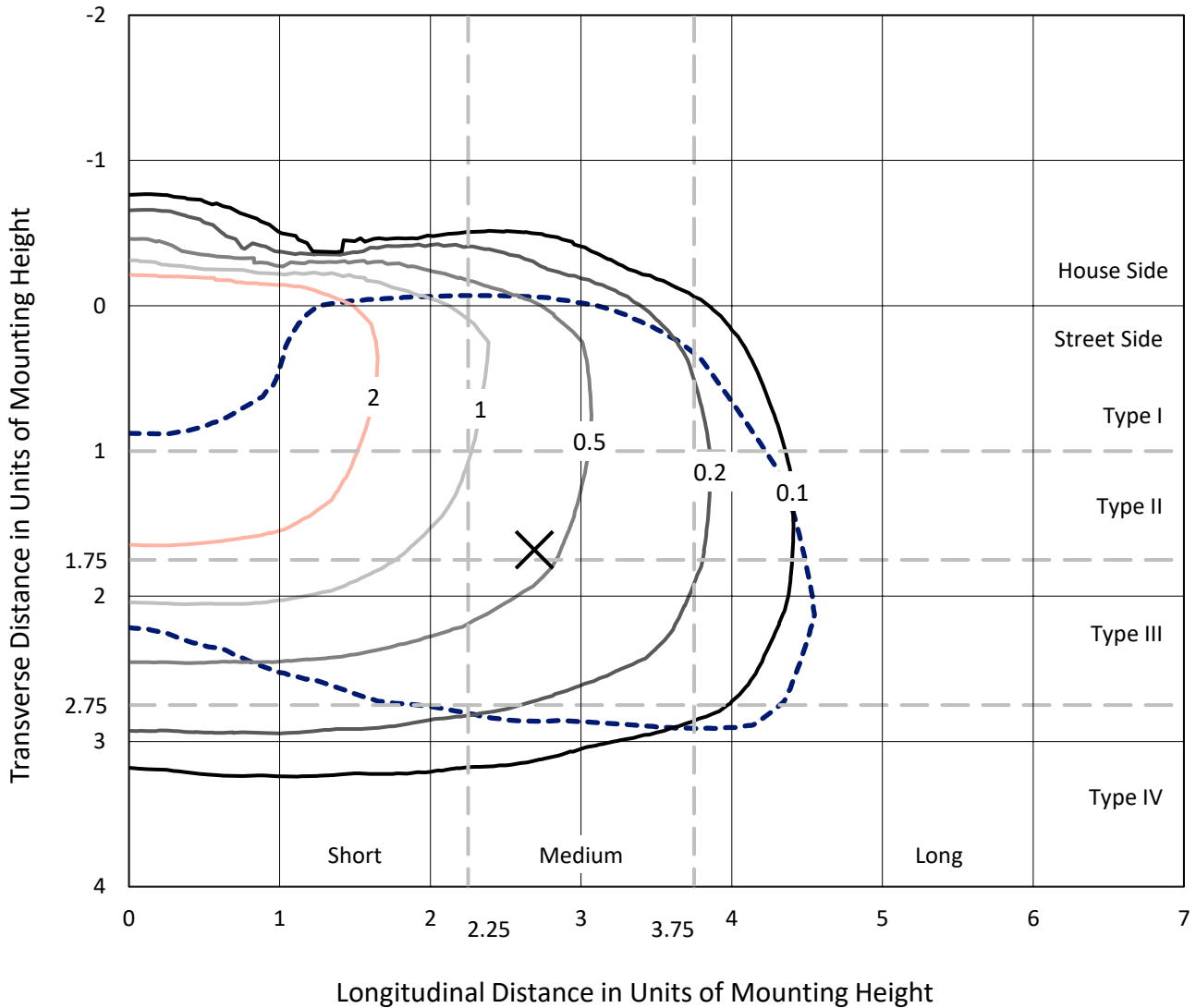
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

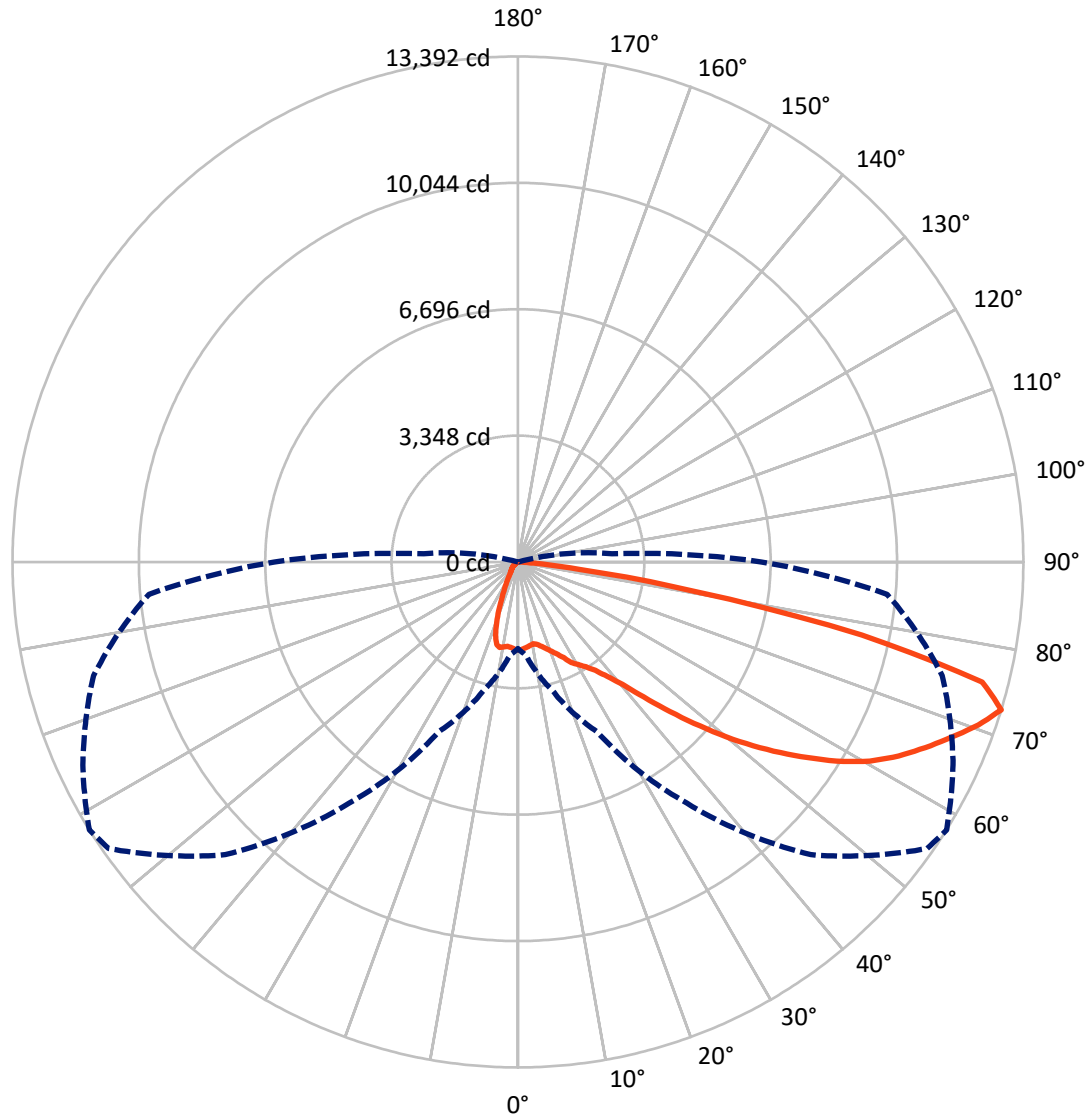
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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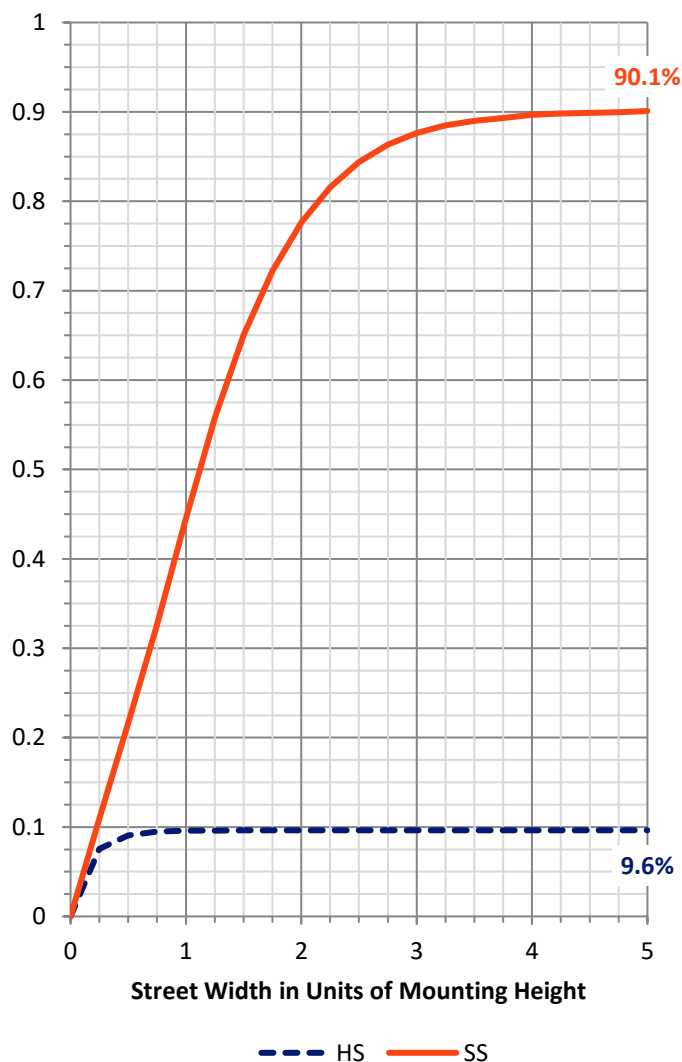
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1893.4	0.0	1893.4
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	17577.6	0.0	17577.6
	% Fixture	90.3	0.0	90.3
Total	Lumens	19471.0	0.0	19471.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	1.1
10°-20°	558.5	2.9
20°-30°	877.3	4.5
30°-40°	1513.0	7.8
40°-50°	2878.7	14.8
50°-60°	4558.9	23.4
60°-70°	5319.7	27.3
70°-80°	3331.8	17.1
80°-90°	218.7	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°	19471.0	100.0
0°-180°	19471.0	100.0

Coefficient of Utilization

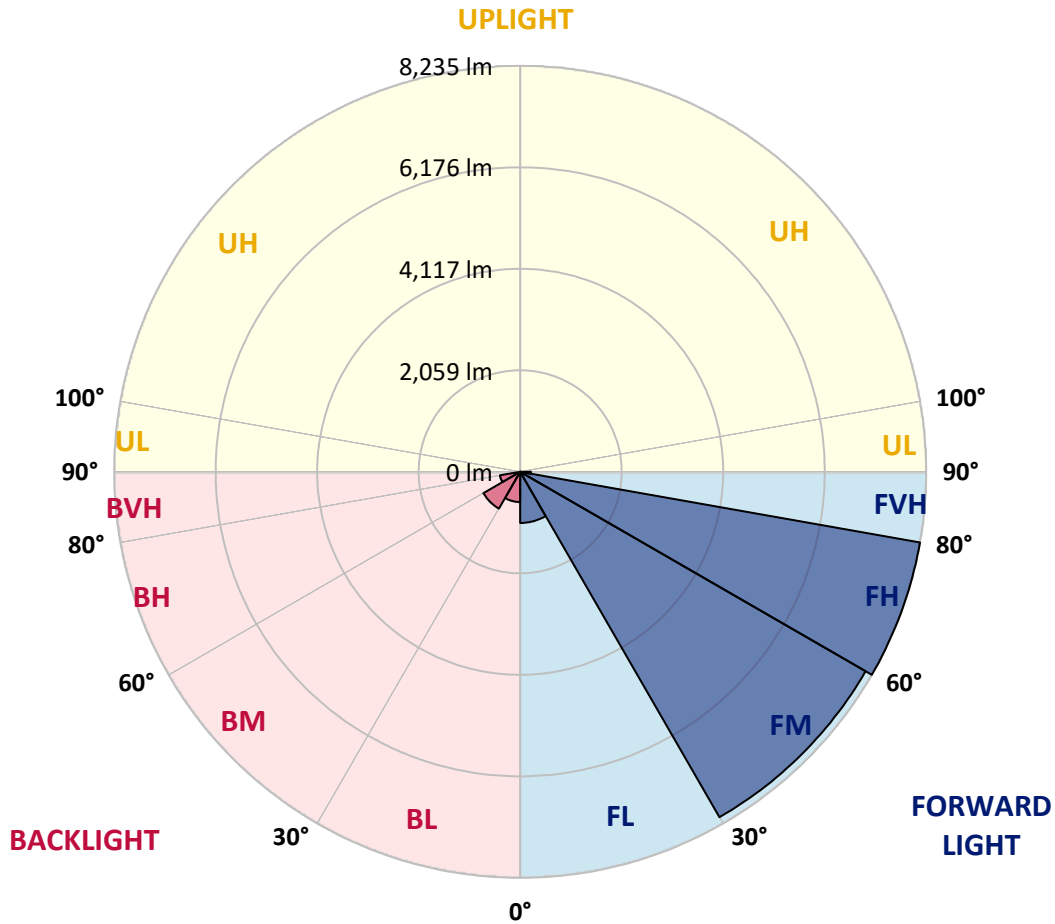


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1037.1	5.3			
FM (30°-60°)	8089.1	41.5			
FH (60°-80°)	8234.8	42.3			G4/12000
FVH (80°-90°)	216.6	1.1			G2/225
BL (0°-30°)	613.1	3.1	B2/1000		
BM (30°-60°)	861.5	4.4	B1/1000		
BH (60°-80°)	416.6	2.1	B1/500		G1/500
BVH (80°-90°)	2.1	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-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2336.4	2336.4	2336.4	2336.4	2336.4	2336.4	2336.4	2336.4	2336.4	2336.4	2336.4
2.5°	2326.0	2315.5	2312.0	2308.5	2312.0	2315.5	2305.1	2315.5	2308.5	2312.0	2319.0
5°	2242.4	2231.9	2228.5	2231.9	2242.4	2259.8	2266.8	2277.2	2277.2	2287.7	2291.1
7.5°	2148.4	2141.4	2137.9	2144.9	2165.8	2204.1	2225.0	2238.9	2252.8	2273.7	2294.6
10°	2096.1	2092.7	2089.2	2099.6	2120.5	2155.3	2183.2	2204.1	2256.3	2315.5	2353.8
12.5°	2061.3	2061.3	2068.3	2089.2	2117.0	2144.9	2211.1	2238.9	2319.0	2409.5	2461.8
15°	2033.5	2033.5	2043.9	2082.2	2120.5	2186.7	2284.2	2315.5	2409.5	2520.9	2590.6
17.5°	2012.6	2019.5	2026.5	2064.8	2137.9	2249.4	2364.3	2409.5	2524.4	2646.3	2722.9
20°	2016.1	2023.0	2026.5	2064.8	2169.3	2322.5	2468.7	2520.9	2653.3	2782.1	2858.7
22.5°	2037.0	2047.4	2050.9	2103.1	2225.0	2399.1	2587.1	2646.3	2789.1	2924.9	2984.0
25°	2124.0	2131.0	2110.1	2155.3	2305.1	2517.5	2740.3	2803.0	2945.7	3071.1	3119.8
27.5°	2420.0	2426.9	2312.0	2259.8	2367.7	2615.0	2928.3	3015.4	3193.0	3276.5	3283.5
30°	3060.7	3067.6	2841.3	2594.1	2517.5	2698.5	3032.8	3154.7	3384.5	3478.5	3436.7
32.5°	3885.9	3878.9	3569.0	3203.4	2872.6	2844.8	3182.5	3311.4	3562.1	3652.6	3621.2
35°	4714.6	4725.0	4460.4	3910.3	3436.7	3119.8	3374.0	3523.8	3826.7	3955.5	3899.8
37.5°	5282.1	5351.8	5236.9	4641.5	4129.6	3628.2	3683.9	3844.1	4223.6	4397.7	4279.3
40°	6083.0	6065.6	5787.0	5348.3	4895.6	4380.3	4185.3	4261.9	4697.2	4930.5	4745.9
42.5°	7158.9	7124.1	6650.6	6222.3	5717.4	5296.1	4899.1	4885.2	5240.4	5512.0	5243.8
45°	8133.9	8081.7	7757.8	7343.5	6789.8	6305.8	5769.6	5647.8	5895.0	6124.8	5811.4
47.5°	8910.4	8823.3	8593.5	8374.1	8238.3	7486.2	6681.9	6497.4	6622.7	6793.3	6351.1
50°	9829.6	9589.3	9255.1	9122.8	9404.8	8823.3	7559.4	7381.8	7374.8	7472.3	6908.2
52.5°	10247.4	9812.2	9624.2	9735.6	10233.5	10066.4	8506.5	8252.3	8151.3	8161.7	7427.0
55°	9742.5	9693.8	9794.8	10143.0	10794.1	10696.6	9415.2	9101.9	8952.1	8764.1	7925.0
57.5°	9168.0	9317.7	9718.2	10383.2	11504.4	11354.7	10310.1	9954.9	9679.9	9248.1	8478.6
60°	8638.8	8792.0	9453.5	10438.9	11894.4	11988.4	11055.3	10717.5	10310.1	9742.5	9087.9
62.5°	7834.4	7952.8	8882.5	10358.9	11723.8	12357.5	11574.1	11319.9	10940.3	10212.6	9787.8
65°	6929.1	7005.7	7925.0	9718.2	11389.5	12315.7	12002.3	11859.6	11490.5	10703.6	10480.7
67.5°	5936.8	6027.3	6793.3	8565.6	10734.9	12120.7	12406.3	12392.3	11971.0	11246.8	10982.1
70°	4794.7	4801.6	5435.4	7103.2	9592.8	11730.8	12907.7	12939.0	12430.6	11654.2	11003.0
72.5°	2294.6	2482.6	3523.8	4958.3	7796.1	10964.7	13235.0	13391.7	12719.6	11640.2	9815.7
75°	525.8	543.2	1027.2	2357.3	4571.8	8415.9	12416.7	12709.2	12016.3	10066.4	6915.2
77.5°	191.5	202.0	289.0	689.4	1758.4	4349.0	8886.0	9314.3	8882.5	6507.8	3269.6
80°	128.8	125.4	149.7	306.4	807.8	1232.6	4544.0	4798.2	4380.3	2221.5	783.4
82.5°	66.2	69.6	104.5	170.6	543.2	428.3	1518.1	1650.5	1358.0	445.7	146.2
85°	31.3	31.3	59.2	107.9	229.8	149.7	337.8	407.4	365.6	195.0	48.7
87.5°	31.3	31.3	55.7	69.6	118.4	62.7	83.6	104.5	97.5	104.5	17.4
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°	2336.4	2336.4	2336.4	2336.4	2336.4	2336.4	2336.4	2336.4	2336.4	2336.4	2336.4
2.5°	2319.0	2315.5	2312.0	2319.0	2315.5	2322.5	2322.5	2329.4	2329.4	2322.5	2319.0
5°	2287.7	2280.7	2273.7	2273.7	2270.2	2277.2	2298.1	2315.5	2319.0	2308.5	2305.1
7.5°	2291.1	2291.1	2284.2	2270.2	2245.9	2245.9	2245.9	2266.8	2277.2	2270.2	2266.8
10°	2353.8	2357.3	2339.9	2308.5	2266.8	2228.5	2155.3	2047.4	1946.4	1918.6	1908.1
12.5°	2461.8	2465.2	2430.4	2374.7	2287.7	2061.3	1782.8	1525.1	1326.6	1270.9	1260.5
15°	2590.6	2594.1	2531.4	2440.9	2176.2	1650.5	1236.1	943.6	769.5	727.7	724.2
17.5°	2722.9	2715.9	2621.9	2447.8	1845.4	1169.9	752.1	602.4	557.1	546.7	550.2
20°	2851.7	2830.8	2702.0	2319.0	1420.6	766.0	550.2	515.3	504.9	497.9	497.9
22.5°	2970.1	2928.3	2768.2	2064.8	995.8	550.2	491.0	484.0	470.1	459.6	456.1
25°	3088.5	3029.3	2809.9	1734.0	668.5	480.5	463.1	449.2	431.8	417.8	414.4
27.5°	3231.3	3147.7	2789.1	1316.2	501.4	445.7	431.8	410.9	386.5	365.6	358.6
30°	3367.1	3273.1	2670.7	908.8	428.3	410.9	390.0	358.6	327.3	302.9	296.0
32.5°	3537.7	3429.7	2458.3	595.4	372.6	358.6	337.8	299.4	257.7	229.8	222.8
35°	3781.4	3659.5	2186.7	417.8	327.3	302.9	275.1	233.3	188.0	167.1	163.7
37.5°	4122.7	3959.0	1845.4	337.8	289.0	254.2	212.4	170.6	139.3	121.9	118.4
40°	4540.5	4289.8	1465.9	299.4	257.7	212.4	160.2	121.9	101.0	87.0	87.0
42.5°	4993.1	4599.7	1079.4	275.1	226.3	174.1	118.4	87.0	73.1	66.2	62.7
45°	5459.7	4874.8	727.7	254.2	198.5	132.3	83.6	59.2	48.7	48.7	45.3
47.5°	5943.7	5059.3	470.1	229.8	167.1	97.5	55.7	41.8	34.8	34.8	34.8
50°	6424.2	5156.8	334.3	208.9	135.8	66.2	41.8	31.3	27.9	27.9	27.9
52.5°	6772.4	5094.1	268.1	181.1	104.5	48.7	31.3	24.4	20.9	20.9	20.9
55°	7075.4	4986.2	233.3	156.7	76.6	34.8	24.4	20.9	17.4	17.4	17.4
57.5°	7385.3	4846.9	208.9	132.3	55.7	24.4	17.4	13.9	13.9	13.9	13.9
60°	7667.3	4610.1	181.1	104.5	38.3	17.4	13.9	10.4	10.4	10.4	10.4
62.5°	7942.4	4408.2	156.7	80.1	27.9	13.9	7.0	7.0	3.5	3.5	3.5
65°	8099.1	4136.6	125.4	52.2	17.4	10.4	3.5	3.5	0.0	0.0	0.0
67.5°	8050.3	3812.8	87.0	31.3	10.4	7.0	3.5	0.0	0.0	0.0	0.0
70°	7712.6	3377.5	52.2	17.4	10.4	7.0	3.5	0.0	0.0	0.0	0.0
72.5°	6459.1	2500.1	31.3	13.9	7.0	3.5	0.0	0.0	0.0	0.0	0.0
75°	4314.2	1149.0	17.4	10.4	3.5	3.5	0.0	0.0	0.0	0.0	0.0
77.5°	1974.3	344.7	10.4	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	396.9	90.5	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	83.6	17.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.4	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	3.5	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)