

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: P400321

Luminaire Tested: **ARCH-L-PA3-260-827-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400321
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-PA3-260-827-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 1110mA 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: 18440 lumens
Efficiency: N/A
Efficacy: 70.7 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

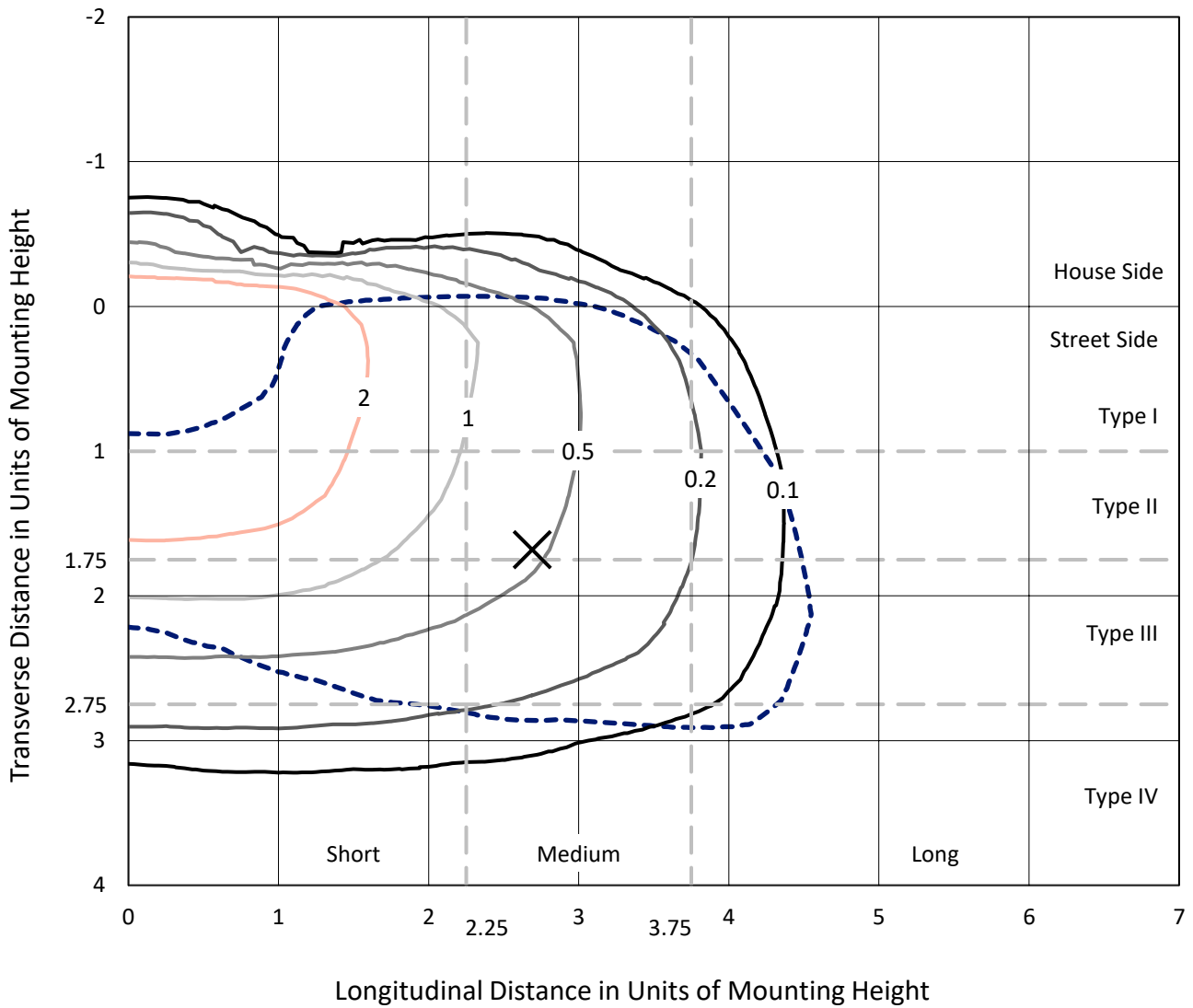
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

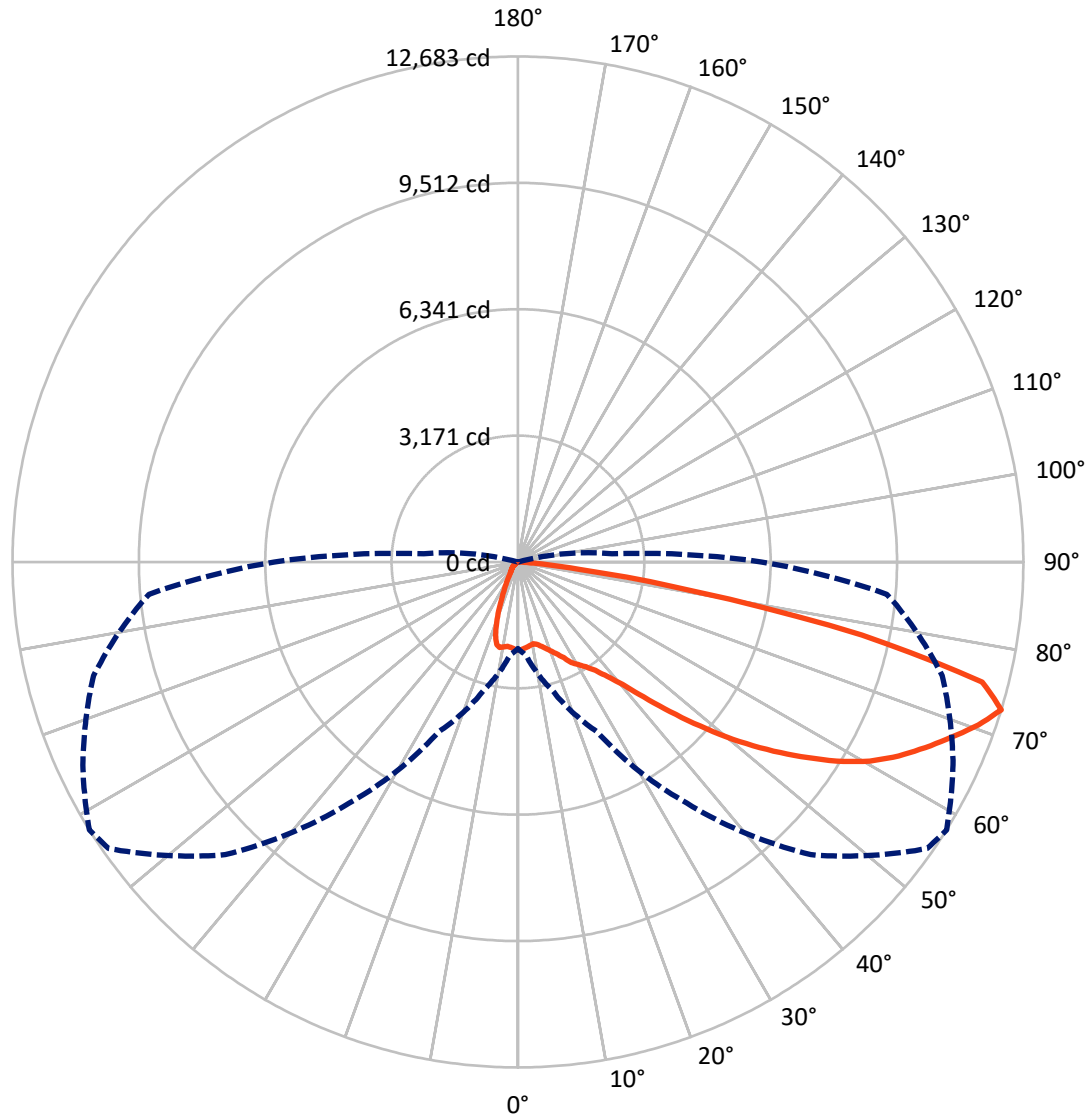
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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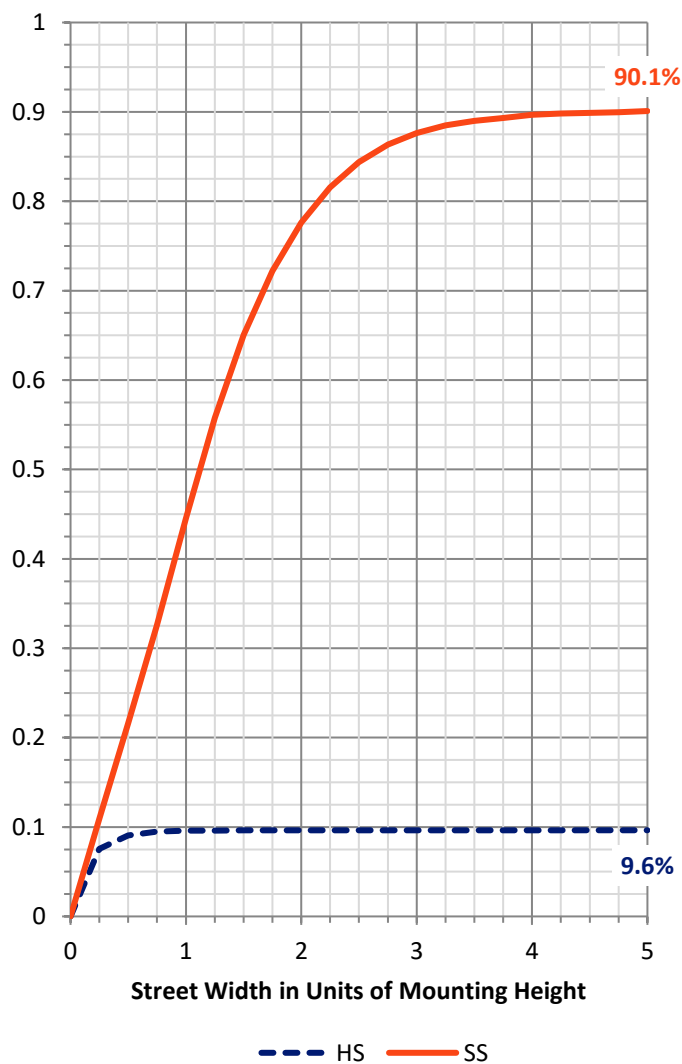
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1793.2	0.0	1793.2
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	16646.8	0.0	16646.8
	% Fixture	90.3	0.0	90.3
Total	Lumens	18440.0	0.0	18440.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.1	1.1
10°-20°	528.9	2.9
20°-30°	830.9	4.5
30°-40°	1432.9	7.8
40°-50°	2726.2	14.8
50°-60°	4317.5	23.4
60°-70°	5038.0	27.3
70°-80°	3155.3	17.1
80°-90°	207.1	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°	18440.0	100.0
0°-180°	18440.0	100.0

Coefficient of Utilization



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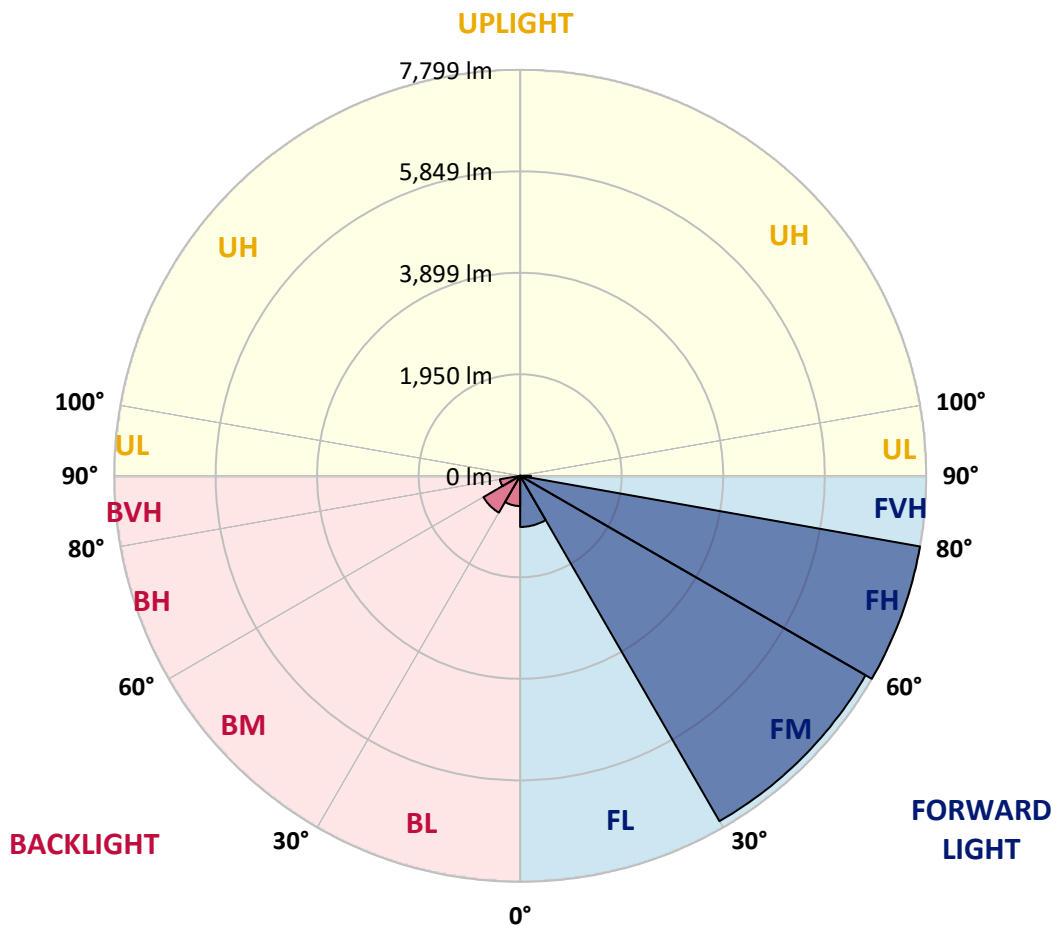
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	982.2	5.3			
FM (30°-60°)	7660.7	41.5			
FH (60°-80°)	7798.8	42.3			G4/12000
FVH (80°-90°)	205.1	1.1			G2/225
BL (0°-30°)	580.7	3.1	B2/1000		
BM (30°-60°)	815.9	4.4	B1/1000		
BH (60°-80°)	394.6	2.1	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7
2.5°	2202.8	2192.9	2189.6	2186.3	2189.6	2192.9	2183.0	2192.9	2186.3	2189.6	2196.2
5°	2123.7	2113.8	2110.5	2113.8	2123.7	2140.1	2146.7	2156.6	2156.6	2166.5	2169.8
7.5°	2034.6	2028.0	2024.7	2031.3	2051.1	2087.4	2107.2	2120.4	2133.5	2153.3	2173.1
10°	1985.2	1981.9	1978.6	1988.5	2008.2	2041.2	2067.6	2087.4	2136.8	2192.9	2229.2
12.5°	1952.2	1952.2	1958.8	1978.6	2004.9	2031.3	2094.0	2120.4	2196.2	2281.9	2331.4
15°	1925.8	1925.8	1935.7	1972.0	2008.2	2070.9	2163.2	2192.9	2281.9	2387.5	2453.4
17.5°	1906.0	1912.6	1919.2	1955.5	2024.7	2130.2	2239.1	2281.9	2390.8	2506.2	2578.7
20°	1909.3	1915.9	1919.2	1955.5	2054.4	2199.5	2338.0	2387.5	2512.8	2634.8	2707.3
22.5°	1929.1	1939.0	1942.3	1991.7	2107.2	2272.0	2450.1	2506.2	2641.4	2770.0	2826.0
25°	2011.5	2018.1	1998.3	2041.2	2183.0	2384.2	2595.2	2654.6	2789.8	2908.5	2954.6
27.5°	2291.8	2298.4	2189.6	2140.1	2242.4	2476.5	2773.3	2855.7	3023.9	3103.0	3109.6
30°	2898.6	2905.2	2690.8	2456.7	2384.2	2555.6	2872.2	2987.6	3205.3	3294.3	3254.7
32.5°	3680.1	3673.5	3380.0	3033.8	2720.5	2694.1	3014.0	3136.0	3373.4	3459.2	3429.5
35°	4464.9	4474.8	4224.2	3703.2	3254.7	2954.6	3195.4	3337.2	3624.1	3746.1	3693.3
37.5°	5002.5	5068.4	4959.6	4395.7	3911.0	3436.1	3488.9	3640.5	4000.0	4164.9	4052.7
40°	5760.9	5744.4	5480.6	5065.1	4636.4	4148.4	3963.7	4036.3	4448.5	4669.4	4494.6
42.5°	6779.9	6746.9	6298.4	5892.8	5414.7	5015.6	4639.7	4626.5	4962.9	5220.1	4966.2
45°	7703.2	7653.7	7347.0	6954.6	6430.3	5971.9	5464.1	5348.7	5582.8	5800.5	5503.7
47.5°	8438.6	8356.1	8138.5	7930.7	7802.1	7089.8	6328.1	6153.3	6272.0	6433.6	6014.8
50°	9309.1	9081.6	8765.0	8639.7	8906.8	8356.1	7159.1	6990.9	6984.3	7076.6	6542.4
52.5°	9704.8	9292.6	9114.6	9220.1	9691.6	9533.4	8056.0	7815.3	7719.7	7729.6	7033.8
55°	9226.7	9180.5	9276.1	9605.9	10222.6	10130.2	8916.7	8619.9	8478.1	8300.1	7505.3
57.5°	8682.6	8824.4	9203.6	9833.4	10895.3	10753.5	9764.2	9427.8	9167.3	8758.4	8029.6
60°	8181.3	8326.4	8953.0	9886.2	11264.6	11353.6	10469.9	10150.0	9764.2	9226.7	8606.7
62.5°	7419.6	7531.7	8412.2	9810.4	11103.0	11703.2	10961.2	10720.5	10361.0	9671.9	9269.5
65°	6562.2	6634.8	7505.3	9203.6	10786.4	11663.6	11366.8	11231.6	10882.1	10136.8	9925.8
67.5°	5622.4	5708.1	6433.6	8112.1	10166.5	11478.9	11749.3	11736.1	11337.1	10651.2	10400.6
70°	4540.8	4547.4	5147.5	6727.1	9084.9	11109.6	12224.2	12253.9	11772.4	11037.1	10420.4
72.5°	2173.1	2351.2	3337.2	4695.8	7383.3	10384.1	12534.2	12682.6	12046.1	11023.9	9295.9
75°	497.9	514.4	972.8	2232.5	4329.7	7970.3	11759.2	12036.2	11380.0	9533.4	6549.0
77.5°	181.4	191.3	273.7	652.9	1665.3	4118.7	8415.5	8821.1	8412.2	6163.2	3096.4
80°	122.0	118.7	141.8	290.2	765.0	1167.3	4303.4	4544.1	4148.4	2103.9	742.0
82.5°	62.7	66.0	98.9	161.6	514.4	405.6	1437.8	1563.1	1286.1	422.1	138.5
85°	29.7	29.7	56.1	102.2	217.6	141.8	319.9	385.8	346.2	184.7	46.2
87.5°	29.7	29.7	52.8	66.0	112.1	59.4	79.1	98.9	92.3	98.9	16.5
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°	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7
2.5°	2196.2	2192.9	2189.6	2196.2	2192.9	2199.5	2199.5	2206.1	2206.1	2199.5	2196.2
5°	2166.5	2159.9	2153.3	2153.3	2150.0	2156.6	2176.4	2192.9	2196.2	2186.3	2183.0
7.5°	2169.8	2169.8	2163.2	2150.0	2127.0	2127.0	2127.0	2146.7	2156.6	2150.0	2146.7
10°	2229.2	2232.5	2216.0	2186.3	2146.7	2110.5	2041.2	1939.0	1843.4	1817.0	1807.1
12.5°	2331.4	2334.7	2301.7	2249.0	2166.5	1952.2	1688.4	1444.3	1256.4	1203.6	1193.7
15°	2453.4	2456.7	2397.4	2311.6	2061.0	1563.1	1170.6	893.6	728.8	689.2	685.9
17.5°	2578.7	2572.1	2483.1	2318.2	1747.7	1108.0	712.3	570.5	527.6	517.7	521.0
20°	2700.7	2680.9	2558.9	2196.2	1345.4	725.5	521.0	488.0	478.2	471.6	471.6
22.5°	2812.9	2773.3	2621.6	1955.5	943.1	521.0	465.0	458.4	445.2	435.3	432.0
25°	2925.0	2868.9	2661.2	1642.2	633.1	455.1	438.6	425.4	408.9	395.7	392.4
27.5°	3060.2	2981.0	2641.4	1246.5	474.9	422.1	408.9	389.1	366.0	346.2	339.7
30°	3188.8	3099.7	2529.3	860.7	405.6	389.1	369.3	339.7	310.0	286.9	280.3
32.5°	3350.4	3248.1	2328.1	563.9	352.8	339.7	319.9	283.6	244.0	217.6	211.0
35°	3581.2	3465.8	2070.9	395.7	310.0	286.9	260.5	220.9	178.1	158.3	155.0
37.5°	3904.4	3749.4	1747.7	319.9	273.7	240.7	201.2	161.6	131.9	115.4	112.1
40°	4300.1	4062.6	1388.3	283.6	244.0	201.2	151.7	115.4	95.6	82.4	82.4
42.5°	4728.8	4356.1	1022.3	260.5	214.3	164.9	112.1	82.4	69.2	62.7	59.4
45°	5170.6	4616.6	689.2	240.7	188.0	125.3	79.1	56.1	46.2	46.2	42.9
47.5°	5629.0	4791.4	445.2	217.6	158.3	92.3	52.8	39.6	33.0	33.0	33.0
50°	6084.1	4883.7	316.6	197.9	128.6	62.7	39.6	29.7	26.4	26.4	26.4
52.5°	6413.8	4824.4	253.9	171.5	98.9	46.2	29.7	23.1	19.8	19.8	19.8
55°	6700.7	4722.2	220.9	148.4	72.5	33.0	23.1	19.8	16.5	16.5	16.5
57.5°	6994.2	4590.3	197.9	125.3	52.8	23.1	16.5	13.2	13.2	13.2	13.2
60°	7261.3	4366.0	171.5	98.9	36.3	16.5	13.2	9.9	9.9	9.9	9.9
62.5°	7521.8	4174.8	148.4	75.8	26.4	13.2	6.6	6.6	3.3	3.3	3.3
65°	7670.2	3917.5	118.7	49.5	16.5	9.9	3.3	3.3	0.0	0.0	0.0
67.5°	7624.0	3610.9	82.4	29.7	9.9	6.6	3.3	0.0	0.0	0.0	0.0
70°	7304.2	3198.7	49.5	16.5	9.9	6.6	3.3	0.0	0.0	0.0	0.0
72.5°	6117.0	2367.7	29.7	13.2	6.6	3.3	0.0	0.0	0.0	0.0	0.0
75°	4085.7	1088.2	16.5	9.9	3.3	3.3	0.0	0.0	0.0	0.0	0.0
77.5°	1869.7	326.5	9.9	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	375.9	85.7	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	79.1	16.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.5	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	3.3	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)