

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: P399927

Luminaire Tested: **ARCH-L-PA3-210-730-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-210-730-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19633 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G4

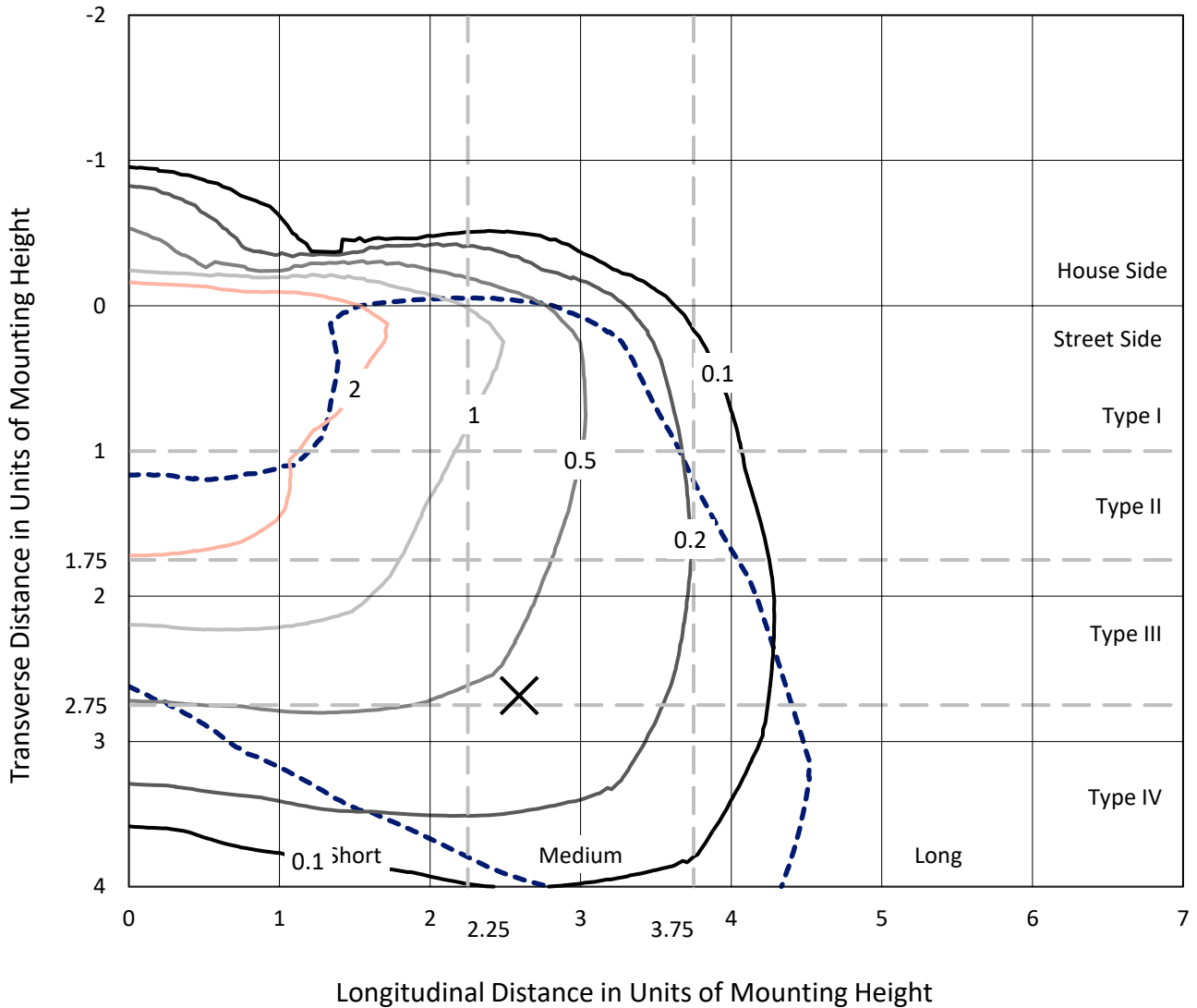
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399927
 CATALOG NUMBER: ARCH-L-PA3-210-730-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

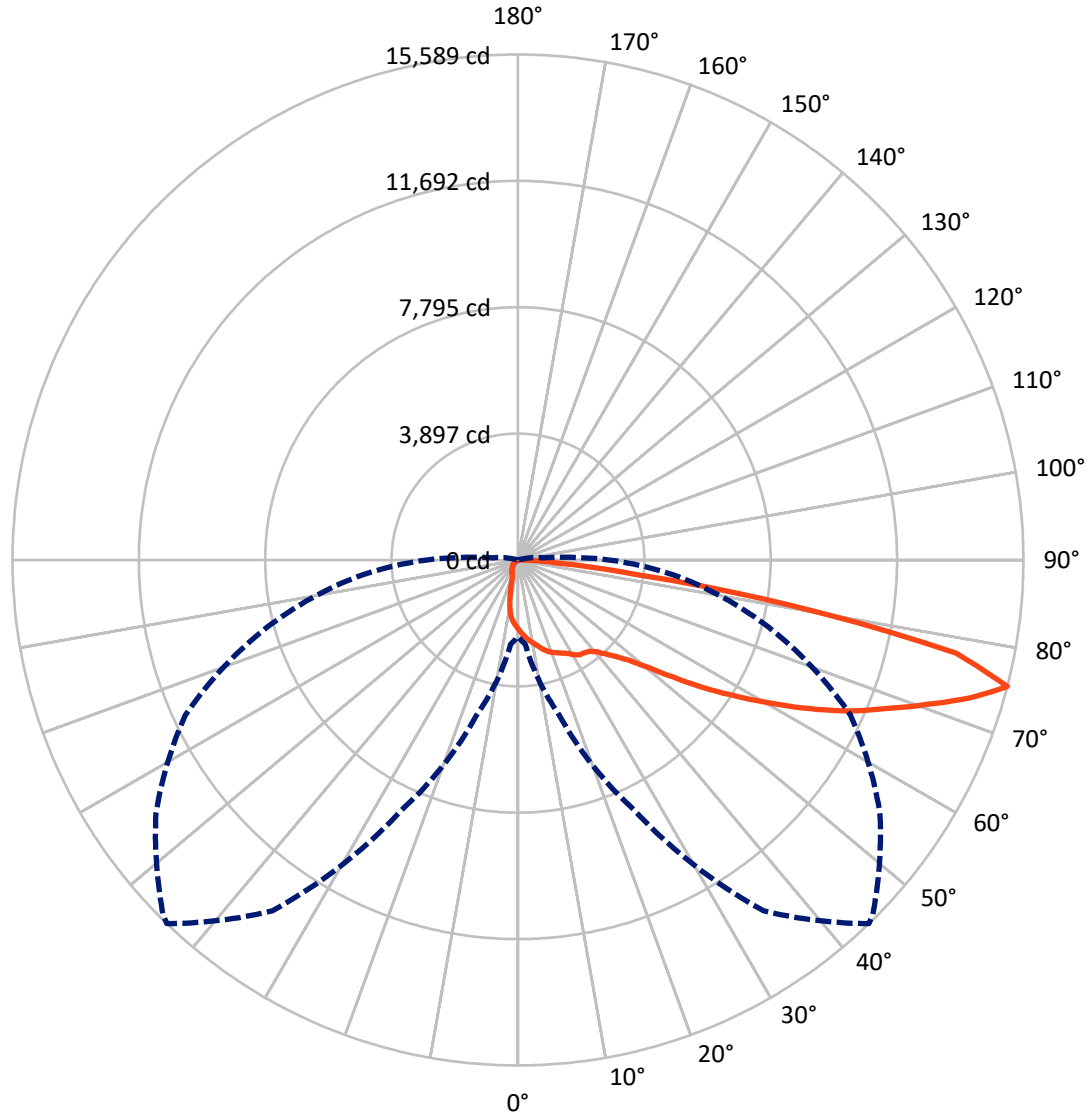
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Medium - N/A

REPORT NUMBER: P399927
CATALOG NUMBER: ARCH-L-PA3-210-730-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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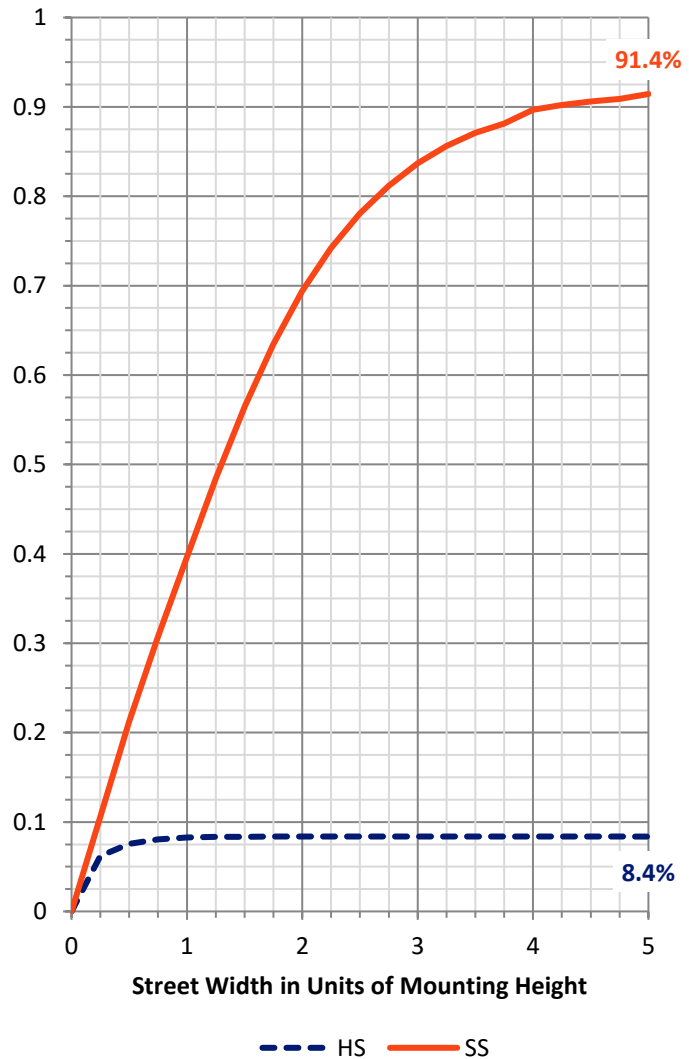
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1655.7	0.0	1655.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	17977.3	0.0	17977.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	19633.0	0.0	19633.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.5	1.0
10°-20°	564.7	2.9
20°-30°	932.0	4.7
30°-40°	1352.6	6.9
40°-50°	2198.8	11.2
50°-60°	3876.2	19.7
60°-70°	5570.9	28.4
70°-80°	4461.0	22.7
80°-90°	475.3	2.4
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°	19633.0	100.0
0°-180°	19633.0	100.0

Coefficient of Utilization



REPORT NUMBER: P399927

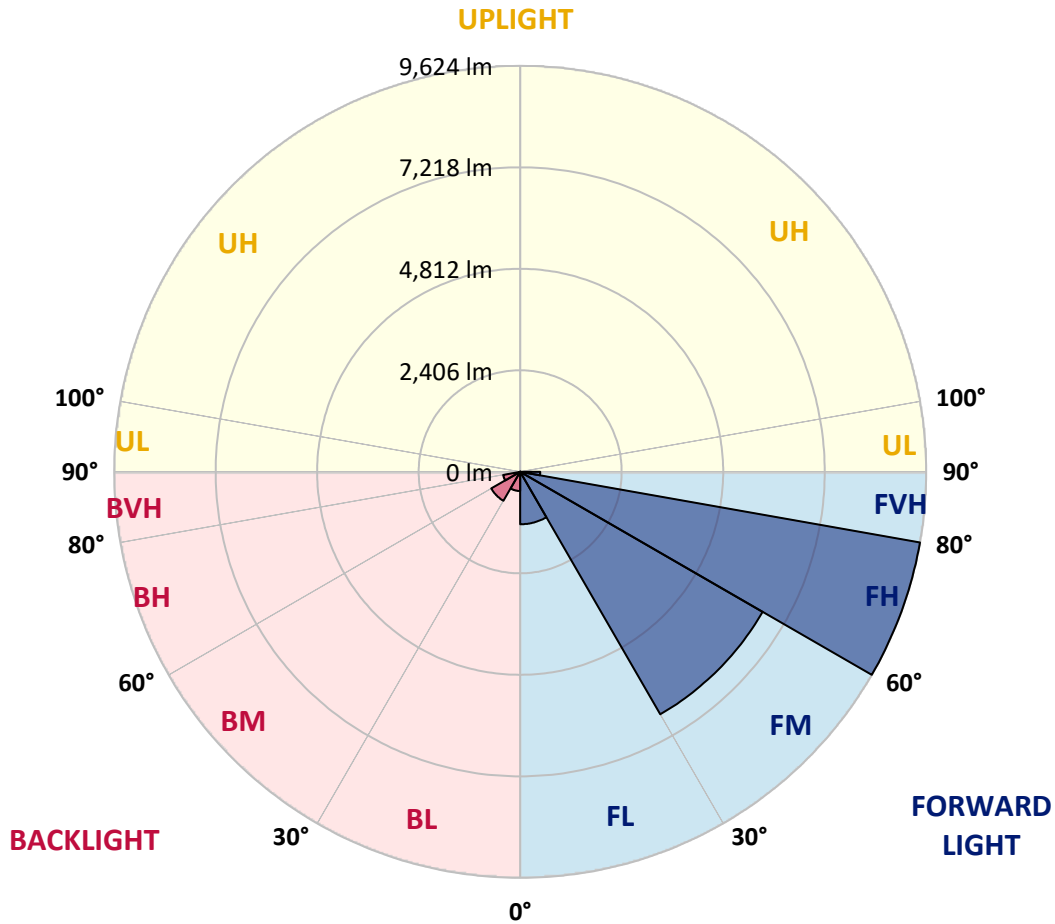
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1243.3	6.3			
FM (30°-60°)	6636.1	33.8			
FH (60°-80°)	9623.8	49.0			G4/12000
FVH (80°-90°)	474.1	2.4			G3/500
BL (0°-30°)	454.9	2.3	B1/500		
BM (30°-60°)	791.5	4.0	B1/1000		
BH (60°-80°)	408.2	2.1	B1/500		G1/500
BVH (80°-90°)	1.2	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-G4

Type IV Medium





REPORT NUMBER: P399927

CATALOG NUMBER: ARCH-L-PA3-210-730-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2137.0	2137.0	2137.0	2137.0	2137.0	2137.0	2137.0	2137.0	2137.0	2137.0	2137.0
2.5°	2328.9	2325.3	2314.5	2296.3	2278.2	2260.1	2256.5	2227.5	2194.9	2169.6	2147.8
5°	2535.4	2531.8	2513.7	2473.8	2434.0	2386.9	2383.3	2314.5	2252.9	2184.1	2126.1
7.5°	2749.1	2741.9	2709.3	2647.7	2578.9	2506.4	2499.2	2397.8	2307.2	2216.7	2133.4
10°	2915.7	2908.5	2861.4	2788.9	2694.8	2604.2	2593.3	2488.3	2397.8	2281.9	2169.6
12.5°	3078.7	3064.2	3002.6	2923.0	2807.0	2720.1	2709.3	2600.6	2491.9	2372.4	2234.8
15°	3230.8	3212.7	3154.8	3053.3	2930.2	2846.9	2839.6	2723.7	2611.5	2473.8	2321.7
17.5°	3335.9	3328.6	3259.8	3147.5	3028.0	2959.2	2951.9	2832.4	2720.1	2575.2	2412.2
20°	3390.2	3390.2	3325.0	3201.8	3093.2	3046.1	3035.2	2923.0	2814.3	2676.7	2506.4
22.5°	3401.1	3411.9	3361.2	3227.2	3147.5	3107.7	3100.4	3002.6	2897.6	2770.8	2611.5
25°	3422.8	3422.8	3397.4	3252.6	3194.6	3183.7	3180.1	3093.2	2999.0	2872.2	2716.5
27.5°	3448.1	3448.1	3430.0	3288.8	3267.0	3263.4	3259.8	3220.0	3143.9	2995.4	2839.6
30°	3513.3	3517.0	3502.5	3361.2	3346.7	3386.6	3393.8	3372.1	3277.9	3093.2	2966.4
32.5°	3676.3	3643.7	3603.9	3411.9	3437.3	3488.0	3491.6	3448.1	3346.7	3198.2	3118.5
35°	4085.6	3893.6	3712.5	3455.4	3466.3	3517.0	3524.2	3520.6	3459.0	3332.2	3292.4
37.5°	4465.9	4194.3	3937.1	3556.8	3520.6	3574.9	3589.4	3651.0	3603.9	3517.0	3527.8
40°	4686.9	4581.8	4400.7	3835.7	3629.2	3712.5	3727.0	3821.2	3803.1	3766.9	3835.7
42.5°	5367.8	5375.0	5179.5	4252.2	3828.4	3962.5	3980.6	4056.6	4082.0	4100.1	4266.7
45°	6157.4	6182.7	6135.7	5002.0	4205.1	4248.6	4274.0	4375.4	4469.5	4585.4	4889.7
47.5°	7106.4	7084.6	6910.8	5918.3	4860.7	4618.0	4636.2	4831.7	4994.7	5248.3	5682.9
50°	7946.7	8001.0	7671.4	6773.1	5784.3	5201.2	5183.1	5375.0	5668.4	6023.4	6570.3
52.5°	8794.2	8714.5	8269.0	7620.7	6878.2	5994.4	5940.1	6045.1	6458.0	6878.2	7439.6
55°	9018.8	9026.0	8873.9	8547.9	7790.9	6957.9	6867.3	6860.1	7374.4	7660.5	8352.3
57.5°	9460.7	9478.8	9515.0	9580.2	9221.6	7921.3	7827.1	7725.7	8225.6	8392.2	9268.7
60°	9909.8	9931.5	10152.5	10503.8	10264.7	8960.8	8859.4	8620.4	8899.2	9123.8	10232.1
62.5°	9851.8	10004.0	10645.0	11344.1	11315.1	10101.7	9975.0	9399.1	9576.6	9772.1	11115.9
65°	8895.6	9058.6	10500.2	11575.9	12369.1	11228.2	11021.7	10203.2	10214.0	10449.5	11967.1
67.5°	8040.8	8218.3	9594.7	11478.1	13064.5	12238.7	12025.0	11010.9	10840.6	11231.8	12423.4
70°	7548.2	7725.7	8873.9	11173.9	13260.1	13357.9	13173.2	11934.5	11586.8	11945.3	11912.7
72.5°	5907.5	6186.4	7953.9	10594.3	13470.2	14556.8	14411.9	13104.4	12220.6	11199.2	9069.5
75°	2354.3	2611.5	4965.8	8526.2	13205.8	15589.1	15476.8	13629.6	11311.5	7997.4	4643.4
77.5°	709.9	760.6	1380.0	4216.0	9681.6	13821.5	13785.3	11460.0	8004.6	3712.5	1267.7
80°	235.4	260.8	423.8	1162.7	4418.8	8634.8	8797.8	7301.9	3636.5	851.2	257.2
82.5°	97.8	108.7	213.7	467.2	1564.7	3719.8	3665.5	3270.7	1267.7	528.8	94.2
85°	25.4	32.6	97.8	268.0	572.3	1282.2	1347.4	1097.5	717.2	438.3	29.0
87.5°	0.0	0.0	47.1	108.7	257.2	387.6	405.7	333.2	405.7	329.6	14.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P399927

CATALOG NUMBER: ARCH-L-PA3-210-730-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2137.0	2137.0	2137.0	2137.0	2137.0	2137.0	2137.0	2137.0	2137.0	2137.0	2137.0
2.5°	2129.7	2111.6	2079.0	2057.3	2028.3	2021.1	2006.6	1988.5	1984.9	1966.7	1970.4
5°	2093.5	2064.5	2006.6	1966.7	1919.7	1905.2	1879.8	1861.7	1847.2	1821.9	1825.5
7.5°	2086.3	2042.8	1963.1	1887.1	1811.0	1756.7	1680.6	1619.0	1568.3	1514.0	1524.9
10°	2111.6	2057.3	1945.0	1840.0	1702.3	1528.5	1329.3	1198.9	1133.7	1068.5	1075.7
12.5°	2162.3	2097.1	1952.3	1792.9	1514.0	1217.0	941.7	764.2	717.2	688.2	691.8
15°	2238.4	2158.7	1974.0	1702.3	1260.5	880.1	626.6	550.5	568.7	579.5	579.5
17.5°	2318.1	2227.5	1992.1	1539.3	974.3	615.7	510.7	503.5	528.8	554.2	554.2
20°	2415.9	2300.0	1995.7	1332.9	702.7	499.8	481.7	481.7	499.8	528.8	528.8
22.5°	2510.0	2379.7	1963.1	1097.5	536.1	463.6	463.6	463.6	474.5	503.5	507.1
25°	2622.3	2477.4	1894.3	847.5	460.0	441.9	441.9	445.5	452.7	478.1	481.7
27.5°	2741.9	2578.9	1778.4	619.4	420.2	416.5	420.2	423.8	427.4	452.7	460.0
30°	2879.5	2691.1	1629.9	463.6	383.9	383.9	394.8	402.0	402.0	423.8	431.0
32.5°	3038.9	2839.6	1452.4	383.9	347.7	344.1	362.2	373.1	373.1	391.2	398.4
35°	3238.1	2991.8	1238.7	340.5	318.7	311.5	318.7	336.8	344.1	358.6	362.2
37.5°	3502.5	3172.9	1010.5	315.1	297.0	282.5	282.5	286.1	300.6	315.1	318.7
40°	3839.3	3372.1	786.0	297.0	275.3	260.8	249.9	246.3	242.7	253.5	260.8
42.5°	4263.1	3596.6	586.8	278.9	257.2	235.4	220.9	206.5	188.3	184.7	188.3
45°	4806.4	3871.9	434.6	264.4	246.3	213.7	188.3	163.0	130.4	119.5	123.1
47.5°	5447.5	4158.1	340.5	249.9	239.1	188.3	155.7	112.3	79.7	72.4	76.1
50°	6128.4	4433.3	289.8	231.8	224.6	163.0	112.3	68.8	47.1	47.1	50.7
52.5°	6707.9	4589.1	264.4	217.3	202.8	134.0	72.4	39.8	29.0	29.0	32.6
55°	7269.3	4672.4	246.3	202.8	173.9	94.2	39.8	25.4	18.1	18.1	18.1
57.5°	7848.9	4708.6	224.6	184.7	137.6	58.0	21.7	14.5	10.9	10.9	10.9
60°	8363.2	4639.8	192.0	152.1	90.5	29.0	10.9	10.9	7.2	3.6	3.6
62.5°	8794.2	4509.4	134.0	108.7	54.3	14.5	7.2	3.6	0.0	0.0	0.0
65°	9058.6	4299.3	86.9	72.4	32.6	10.9	3.6	0.0	0.0	0.0	0.0
67.5°	8982.5	3904.5	54.3	47.1	14.5	7.2	3.6	0.0	0.0	0.0	0.0
70°	8106.0	3201.8	39.8	29.0	10.9	3.6	0.0	0.0	0.0	0.0	0.0
72.5°	5842.3	2166.0	29.0	18.1	7.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	2810.7	771.5	18.1	14.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	688.2	170.2	10.9	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	152.1	32.6	7.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	50.7	14.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.1	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.9	3.6	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)