

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: P399504

Luminaire Tested: **ARCH-L-PA3-150-740-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399504
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-PA3-150-740-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 665mA 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: 17166 lumens
Efficiency: N/A
Efficacy: 112.2 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

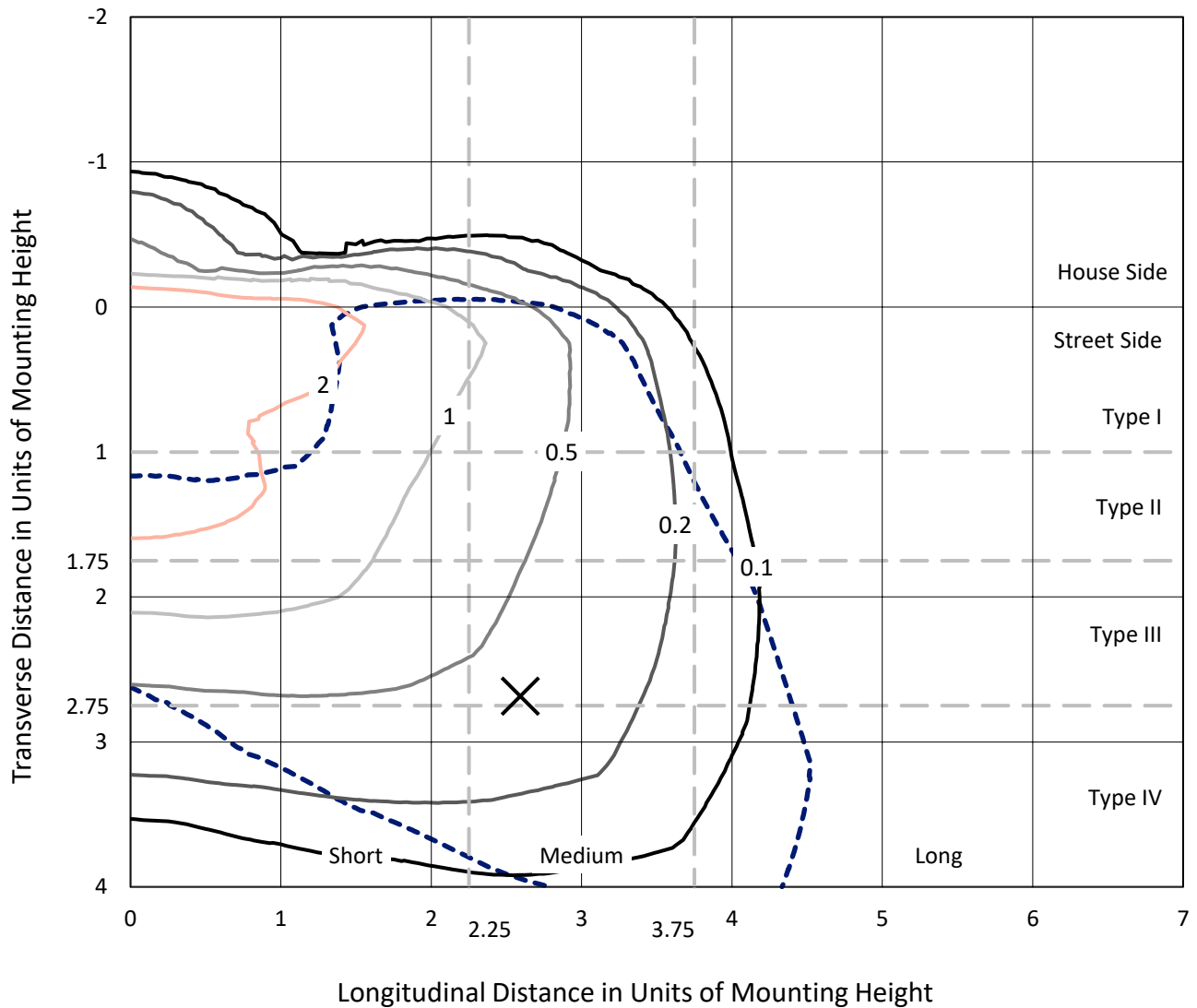
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399504
 CATALOG NUMBER: ARCH-L-PA3-150-740-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

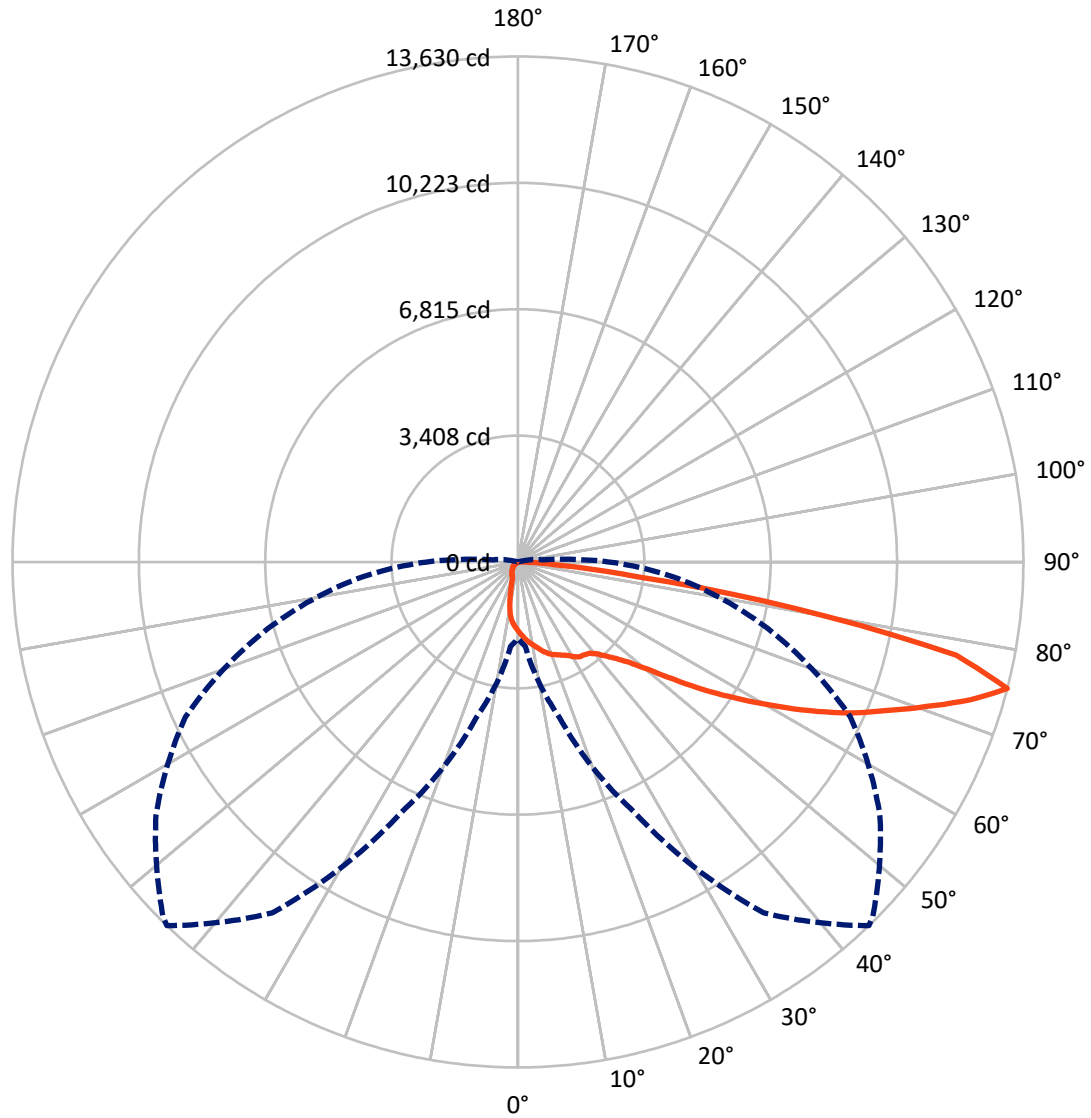
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P399504
CATALOG NUMBER: ARCH-L-PA3-150-740-U-T4W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P399504
 CATALOG NUMBER: ARCH-L-PA3-150-740-U-T4W-HSS

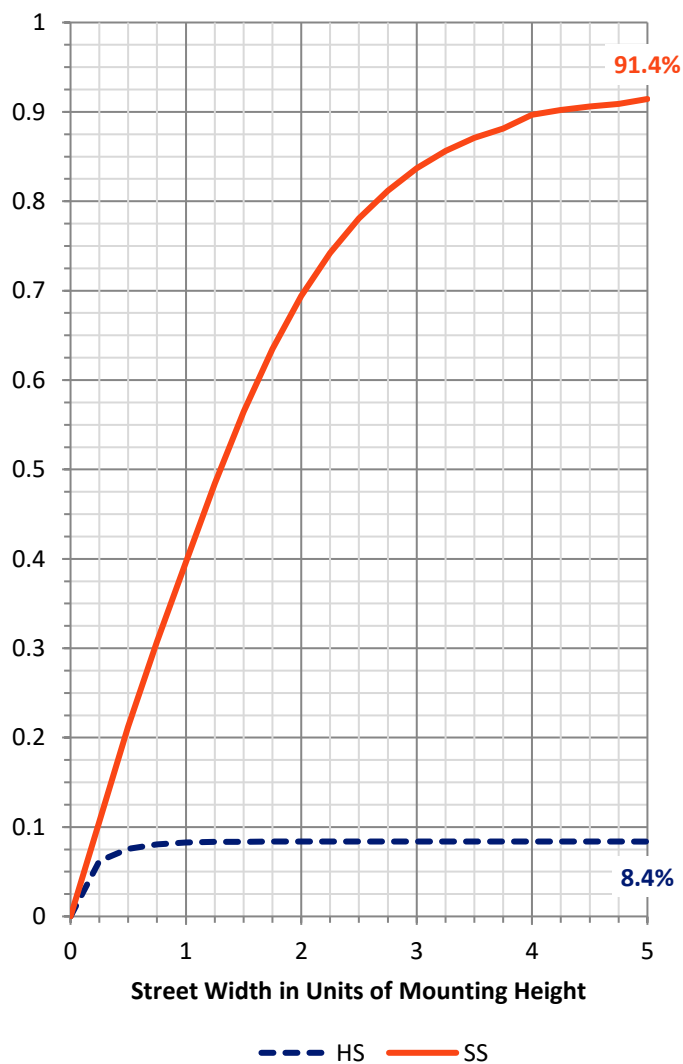
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1447.7	0.0	1447.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	15718.3	0.0	15718.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	17166.0	0.0	17166.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.2	1.0
10°-20°	493.8	2.9
20°-30°	814.9	4.7
30°-40°	1182.7	6.9
40°-50°	1922.5	11.2
50°-60°	3389.1	19.7
60°-70°	4870.9	28.4
70°-80°	3900.5	22.7
80°-90°	415.6	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°	17166.0	100.0
0°-180°	17166.0	100.0

Coefficient of Utilization



REPORT NUMBER: P399504

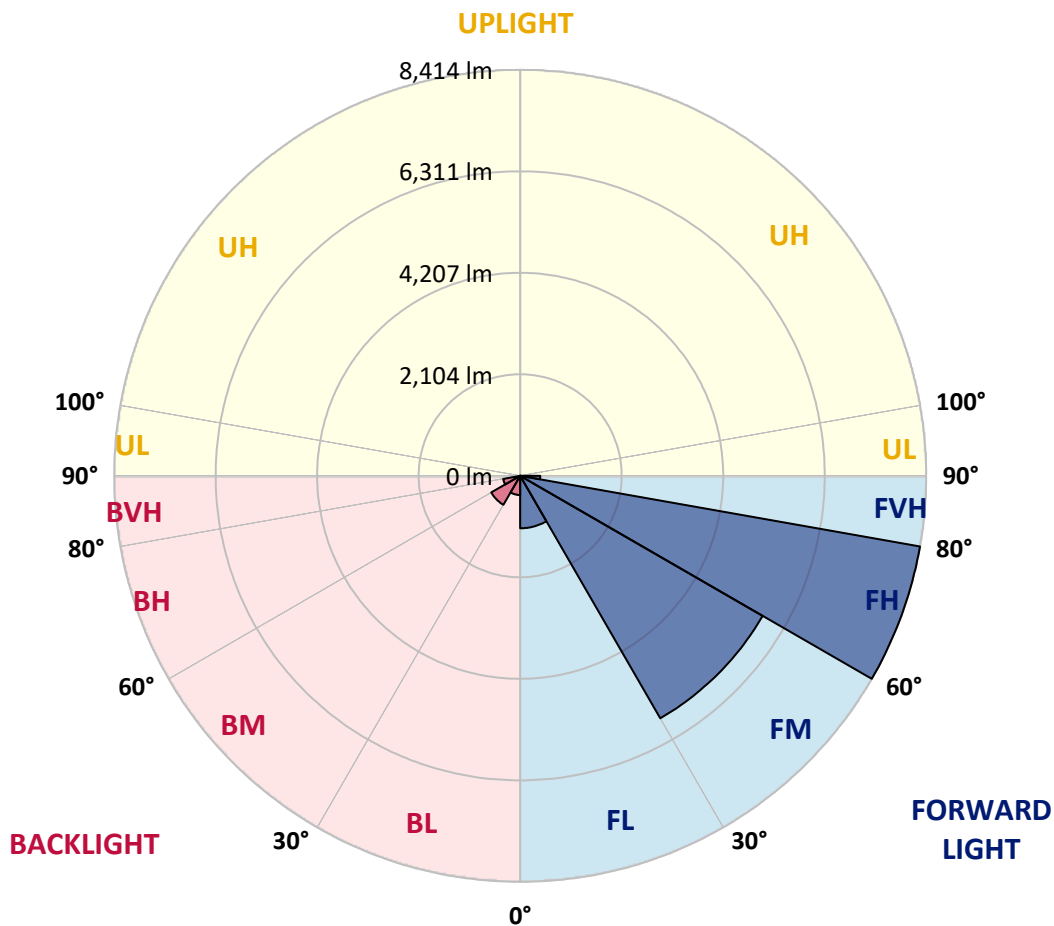
CATALOG NUMBER: ARCH-L-PA3-150-740-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1087.1	6.3			
FM (30°-60°)	5802.3	33.8			
FH (60°-80°)	8414.5	49.0			G4/12000
FVH (80°-90°)	414.5	2.4			G3/500
BL (0°-30°)	397.7	2.3	B1/500		
BM (30°-60°)	692.0	4.0	B1/1000		
BH (60°-80°)	356.9	2.1	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-G4

Type IV Medium





REPORT NUMBER: P399504

CATALOG NUMBER: ARCH-L-PA3-150-740-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1868.5	1868.5	1868.5	1868.5	1868.5	1868.5	1868.5	1868.5	1868.5	1868.5	1868.5
2.5°	2036.3	2033.1	2023.6	2007.8	1992.0	1976.1	1973.0	1947.6	1919.1	1897.0	1878.0
5°	2216.8	2213.6	2197.8	2163.0	2128.1	2087.0	2083.8	2023.6	1969.8	1909.6	1859.0
7.5°	2403.7	2397.3	2368.8	2315.0	2254.8	2191.5	2185.1	2096.5	2017.3	1938.1	1865.3
10°	2549.3	2543.0	2501.8	2438.5	2356.2	2277.0	2267.5	2175.6	2096.5	1995.1	1897.0
12.5°	2691.8	2679.2	2625.3	2555.7	2454.3	2378.3	2368.8	2273.8	2178.8	2074.3	1954.0
15°	2824.8	2809.0	2758.3	2669.7	2562.0	2489.2	2482.8	2381.5	2283.3	2163.0	2030.0
17.5°	2916.7	2910.4	2850.2	2752.0	2647.5	2587.3	2581.0	2476.5	2378.3	2251.6	2109.1
20°	2964.2	2964.2	2907.2	2799.5	2704.5	2663.3	2653.8	2555.7	2460.7	2340.3	2191.5
22.5°	2973.7	2983.2	2938.9	2821.7	2752.0	2717.2	2710.8	2625.3	2533.5	2422.7	2283.3
25°	2992.7	2992.7	2970.5	2843.9	2793.2	2783.7	2780.5	2704.5	2622.2	2511.3	2375.2
27.5°	3014.9	3014.9	2999.0	2875.5	2856.5	2853.4	2850.2	2815.3	2748.8	2619.0	2482.8
30°	3071.9	3075.0	3062.4	2938.9	2926.2	2961.0	2967.4	2948.4	2866.0	2704.5	2593.7
32.5°	3214.4	3185.9	3151.0	2983.2	3005.4	3049.7	3052.9	3014.9	2926.2	2796.3	2726.7
35°	3572.2	3404.4	3246.0	3021.2	3030.7	3075.0	3081.4	3078.2	3024.4	2913.5	2878.7
37.5°	3904.8	3667.2	3442.4	3109.9	3078.2	3125.7	3138.4	3192.2	3151.0	3075.0	3084.5
40°	4097.9	4006.1	3847.7	3353.7	3173.2	3246.0	3258.7	3341.0	3325.2	3293.5	3353.7
42.5°	4693.3	4699.6	4528.6	3717.9	3347.4	3464.6	3480.4	3546.9	3569.1	3584.9	3730.6
45°	5383.7	5405.8	5364.7	4373.4	3676.7	3714.7	3736.9	3825.6	3907.9	4009.3	4275.3
47.5°	6213.4	6194.4	6042.4	5174.7	4249.9	4037.8	4053.6	4224.6	4367.1	4588.8	4968.8
50°	6948.1	6995.6	6707.4	5922.0	5057.5	4547.6	4531.8	4699.6	4956.2	5266.5	5744.7
52.5°	7689.2	7619.5	7230.0	6663.1	6013.9	5241.2	5193.7	5285.5	5646.5	6013.9	6504.8
55°	7885.5	7891.8	7758.8	7473.8	6811.9	6083.6	6004.4	5998.1	6447.7	6697.9	7302.8
57.5°	8271.9	8287.7	8319.4	8376.4	8062.9	6925.9	6843.6	6754.9	7192.0	7337.6	8104.0
60°	8664.6	8683.6	8876.7	9183.9	8974.9	7834.8	7746.2	7537.2	7781.0	7977.3	8946.4
62.5°	8613.9	8746.9	9307.4	9918.6	9893.3	8832.4	8721.6	8218.0	8373.2	8544.2	9719.1
65°	7777.8	7920.3	9180.8	10121.3	10814.9	9817.3	9636.8	8921.1	8930.6	9136.4	10463.3
67.5°	7030.5	7185.6	8389.0	10035.8	11422.9	10700.9	10514.0	9627.3	9478.4	9820.5	10862.4
70°	6599.8	6754.9	7758.8	9769.8	11593.9	11679.4	11517.9	10434.8	10130.8	10444.3	10415.8
72.5°	5165.2	5409.0	6954.4	9263.1	11777.6	12727.7	12601.0	11457.7	10685.0	9792.0	7929.8
75°	2058.5	2283.3	4341.8	7454.8	11546.4	13630.2	13532.0	11916.9	9890.1	6992.5	4059.9
77.5°	620.7	665.0	1206.6	3686.2	8465.0	12084.8	12053.1	10020.0	6998.8	3246.0	1108.4
80°	205.8	228.0	370.5	1016.6	3863.6	7549.8	7692.3	6384.4	3179.5	744.2	224.8
82.5°	85.5	95.0	186.8	408.5	1368.1	3252.4	3204.9	2859.7	1108.4	462.4	82.3
85°	22.2	28.5	85.5	234.3	500.4	1121.1	1178.1	959.6	627.0	383.2	25.3
87.5°	0.0	0.0	41.2	95.0	224.8	338.9	354.7	291.4	354.7	288.2	12.7
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: P399504

CATALOG NUMBER: ARCH-L-PA3-150-740-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1868.5	1868.5	1868.5	1868.5	1868.5	1868.5	1868.5	1868.5	1868.5	1868.5	1868.5
2.5°	1862.1	1846.3	1817.8	1798.8	1773.4	1767.1	1754.4	1738.6	1735.4	1719.6	1722.8
5°	1830.5	1805.1	1754.4	1719.6	1678.4	1665.8	1643.6	1627.8	1615.1	1592.9	1596.1
7.5°	1824.1	1786.1	1716.4	1649.9	1583.4	1535.9	1469.4	1415.6	1371.3	1323.8	1333.3
10°	1846.3	1798.8	1700.6	1608.8	1488.4	1336.4	1162.2	1048.2	991.2	934.2	940.6
12.5°	1890.6	1833.6	1706.9	1567.6	1323.8	1064.1	823.4	668.2	627.0	601.7	604.9
15°	1957.1	1887.5	1725.9	1488.4	1102.1	769.5	547.9	481.4	497.2	506.7	506.7
17.5°	2026.8	1947.6	1741.8	1345.9	851.9	538.4	446.5	440.2	462.4	484.5	484.5
20°	2112.3	2011.0	1744.9	1165.4	614.4	437.0	421.2	421.2	437.0	462.4	462.4
22.5°	2194.6	2080.6	1716.4	959.6	468.7	405.4	405.4	405.4	414.9	440.2	443.4
25°	2292.8	2166.1	1656.3	741.0	402.2	386.4	386.4	389.5	395.9	418.0	421.2
27.5°	2397.3	2254.8	1554.9	541.5	367.4	364.2	367.4	370.5	373.7	395.9	402.2
30°	2517.7	2353.0	1425.1	405.4	335.7	335.7	345.2	351.5	351.5	370.5	376.9
32.5°	2657.0	2482.8	1269.9	335.7	304.0	300.9	316.7	326.2	326.2	342.0	348.4
35°	2831.2	2615.8	1083.1	297.7	278.7	272.4	278.7	294.5	300.9	313.5	316.7
37.5°	3062.4	2774.2	883.6	275.5	259.7	247.0	247.0	250.2	262.9	275.5	278.7
40°	3356.9	2948.4	687.2	259.7	240.7	228.0	218.5	215.3	212.2	221.7	228.0
42.5°	3727.4	3144.7	513.0	243.8	224.8	205.8	193.2	180.5	164.7	161.5	164.7
45°	4202.4	3385.4	380.0	231.2	215.3	186.8	164.7	142.5	114.0	104.5	107.7
47.5°	4763.0	3635.6	297.7	218.5	209.0	164.7	136.2	98.2	69.7	63.3	66.5
50°	5358.3	3876.3	253.3	202.7	196.3	142.5	98.2	60.2	41.2	41.2	44.3
52.5°	5865.0	4012.4	231.2	190.0	177.3	117.2	63.3	34.8	25.3	25.3	28.5
55°	6355.9	4085.3	215.3	177.3	152.0	82.3	34.8	22.2	15.8	15.8	15.8
57.5°	6862.6	4116.9	196.3	161.5	120.3	50.7	19.0	12.7	9.5	9.5	9.5
60°	7312.3	4056.8	167.8	133.0	79.2	25.3	9.5	9.5	6.3	3.2	3.2
62.5°	7689.2	3942.8	117.2	95.0	47.5	12.7	6.3	3.2	0.0	0.0	0.0
65°	7920.3	3759.1	76.0	63.3	28.5	9.5	3.2	0.0	0.0	0.0	0.0
67.5°	7853.8	3413.9	47.5	41.2	12.7	6.3	3.2	0.0	0.0	0.0	0.0
70°	7087.5	2799.5	34.8	25.3	9.5	3.2	0.0	0.0	0.0	0.0	0.0
72.5°	5108.2	1893.8	25.3	15.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	2457.5	674.5	15.8	12.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	601.7	148.8	9.5	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	133.0	28.5	6.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	44.3	12.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	3.2	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)