

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: P399815

Luminaire Tested: **ARCH-L-PA3-190-827-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-190-827-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14058 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

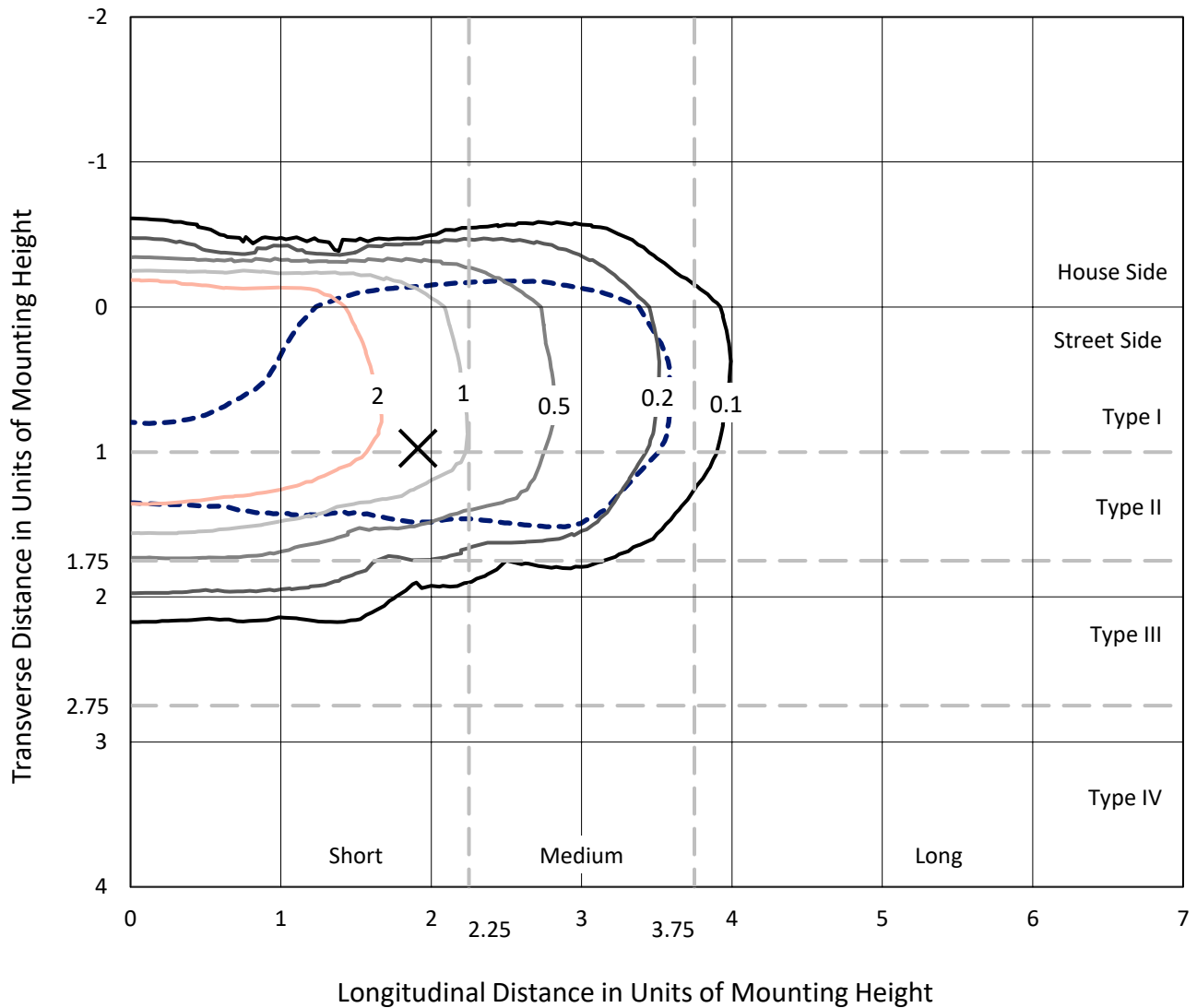
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

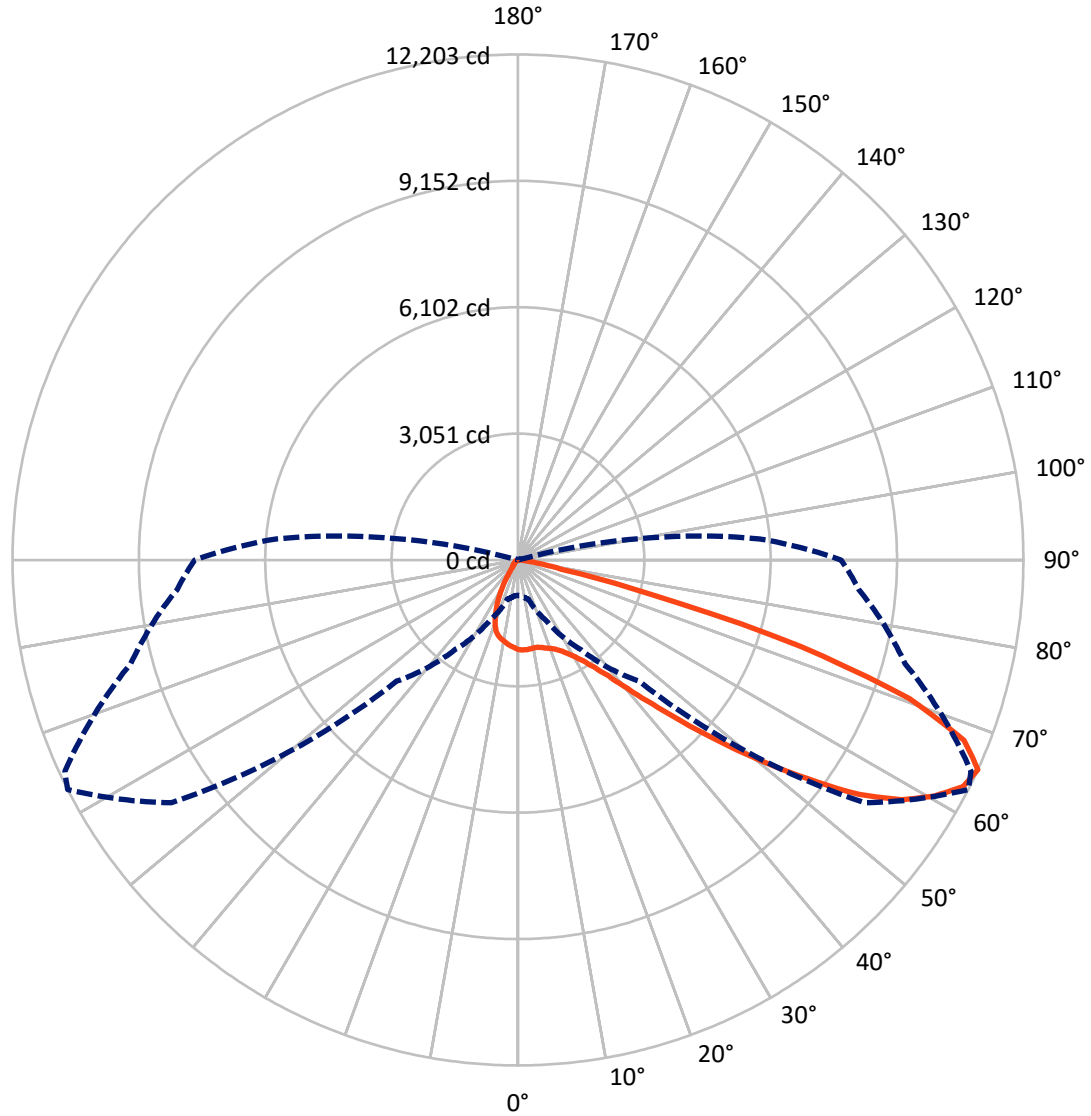
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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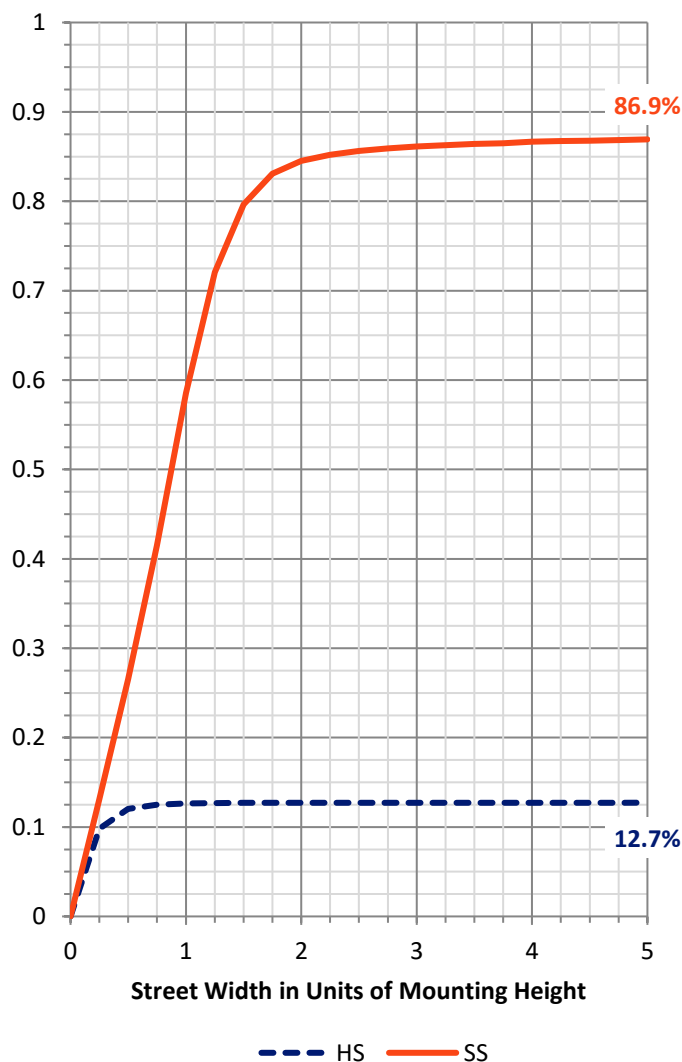
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1809.2	0.0	1809.2
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	12248.8	0.0	12248.8
	% Fixture	87.1	0.0	87.1
Total	Lumens	14058.0	0.0	14058.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.6	1.4
10°-20°	487.5	3.5
20°-30°	722.5	5.1
30°-40°	1341.6	9.5
40°-50°	2842.0	20.2
50°-60°	3929.8	28.0
60°-70°	3145.9	22.4
70°-80°	1307.1	9.3
80°-90°	83.9	0.6
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°	14058.0	100.0
0°-180°	14058.0	100.0

Coefficient of Utilization

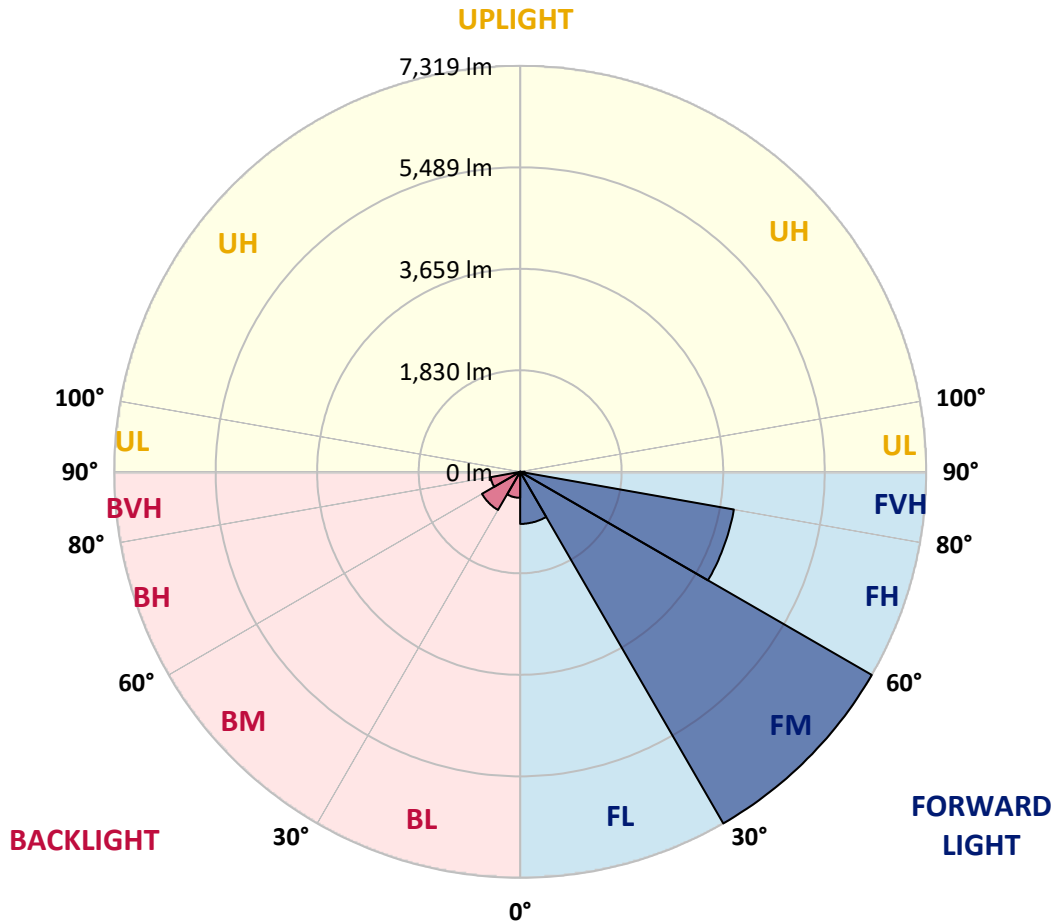


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	938.7	6.7			
FM (30°-60°)	7318.7	52.1			
FH (60°-80°)	3911.3	27.8			G2/5000
FVH (80°-90°)	80.1	0.6			G1/100
BL (0°-30°)	468.9	3.3	B1/500		
BM (30°-60°)	794.8	5.7	B1/1000		
BH (60°-80°)	541.8	3.9	B2/1000		G2/1000
BVH (80°-90°)	3.8	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2165.6	2165.6	2165.6	2165.6	2165.6	2165.6	2165.6	2165.6	2165.6	2165.6	2165.6
2.5°	2202.8	2197.5	2192.2	2189.5	2189.5	2186.9	2176.3	2173.6	2168.3	2163.0	2157.7
5°	2181.6	2173.6	2171.0	2173.6	2176.3	2181.6	2176.3	2176.3	2171.0	2165.6	2155.0
7.5°	2128.5	2123.2	2125.8	2133.8	2136.4	2155.0	2157.7	2165.6	2165.6	2160.3	2152.4
10°	2064.8	2062.1	2062.1	2075.4	2088.7	2115.2	2133.8	2155.0	2157.7	2157.7	2144.4
12.5°	2017.0	2014.4	2022.3	2038.3	2064.8	2099.3	2131.1	2163.0	2168.3	2171.0	2149.7
15°	1987.8	1987.8	1998.4	2030.3	2067.4	2115.2	2152.4	2194.8	2200.1	2197.5	2168.3
17.5°	1961.3	1963.9	1985.2	2038.3	2080.7	2144.4	2189.5	2237.3	2240.0	2237.3	2189.5
20°	1950.7	1956.0	1987.8	2056.8	2104.6	2176.3	2234.6	2282.4	2285.1	2274.5	2210.8
22.5°	1979.9	1982.5	2022.3	2096.6	2141.8	2221.4	2295.7	2340.8	2343.5	2327.5	2242.6
25°	2080.7	2080.7	2115.2	2178.9	2218.7	2298.3	2378.0	2431.0	2431.0	2412.5	2314.3
27.5°	2316.9	2295.7	2287.7	2306.3	2319.6	2404.5	2489.4	2555.8	2553.1	2526.6	2407.2
30°	2773.4	2720.3	2635.4	2539.9	2492.1	2550.5	2630.1	2715.0	2712.4	2669.9	2521.3
32.5°	3540.4	3463.4	3261.7	3009.6	2805.3	2738.9	2813.2	2906.1	2908.8	2858.3	2704.4
35°	4615.3	4493.2	4132.2	3781.9	3314.8	3062.7	3083.9	3184.8	3216.6	3190.1	3012.3
37.5°	5650.3	5538.8	5193.8	4708.1	4073.8	3559.0	3468.7	3556.3	3593.5	3593.5	3405.0
40°	6693.3	6563.3	6258.1	5769.7	5100.9	4333.9	4010.2	4081.8	4121.6	4129.6	3882.8
42.5°	7529.3	7444.4	7210.8	6831.3	6205.0	5692.8	4790.4	4750.6	4787.8	4758.6	4437.4
45°	8107.9	8041.5	7879.6	7736.3	7431.1	7173.7	5833.4	5565.4	5589.3	5488.4	5061.1
47.5°	8227.3	8153.0	8118.5	8317.6	8535.2	8598.9	7115.3	6534.1	6510.2	6287.3	5708.7
50°	7707.1	7715.1	7842.5	8410.4	9318.1	9891.4	8601.5	7627.5	7539.9	7043.6	6311.1
52.5°	6584.5	6711.9	7033.0	7954.0	9557.0	10830.9	10087.8	8787.3	8652.0	7778.8	6762.3
55°	5151.4	5315.9	5844.0	6903.0	9058.0	11250.2	11340.4	9992.2	9684.3	8330.8	7112.6
57.5°	3829.7	3880.1	4495.8	5461.9	7877.0	10838.8	11982.7	10921.1	10525.7	8771.4	7460.3
60°	2385.9	2417.8	3068.0	4158.8	5966.1	9318.1	11982.7	11560.7	11183.8	9166.8	7778.8
62.5°	1483.6	1494.2	1738.4	2850.4	4055.3	6910.9	11486.4	12057.0	11754.4	9450.8	8052.2
65°	854.6	865.2	979.3	1611.0	2638.0	4137.5	10217.8	12203.0	12067.6	9676.4	8264.5
67.5°	623.7	629.0	674.1	905.0	1725.1	2125.8	7675.3	11616.4	11786.3	9787.9	8259.2
70°	541.4	549.4	607.8	706.0	1244.7	1305.8	3906.6	10032.0	10507.1	9628.6	8012.3
72.5°	416.7	427.3	514.9	663.5	913.0	939.5	1414.6	7139.2	7858.4	8633.4	7335.6
75°	286.6	297.2	384.8	546.7	753.7	703.3	777.6	3285.6	4145.5	5791.0	5584.0
77.5°	183.1	185.8	241.5	398.1	650.2	498.9	533.4	1072.2	1504.8	2619.5	2635.4
80°	122.1	124.7	148.6	257.4	445.9	461.8	329.1	496.3	544.1	764.3	530.8
82.5°	74.3	74.3	100.9	161.9	270.7	382.2	215.0	260.1	278.7	294.6	138.0
85°	29.2	29.2	61.0	106.2	169.9	177.8	135.4	151.3	159.2	172.5	63.7
87.5°	8.0	8.0	34.5	58.4	74.3	82.3	82.3	74.3	79.6	98.2	31.8
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°	2165.6	2165.6	2165.6	2165.6	2165.6	2165.6	2165.6	2165.6	2165.6	2165.6	2165.6
2.5°	2155.0	2147.1	2136.4	2125.8	2115.2	2107.3	2099.3	2099.3	2094.0	2086.0	2080.7
5°	2149.7	2136.4	2112.6	2094.0	2064.8	2043.6	2027.6	2014.4	2006.4	1987.8	1985.2
7.5°	2141.8	2125.8	2091.3	2054.2	2006.4	1969.2	1932.1	1905.6	1879.0	1857.8	1852.5
10°	2128.5	2109.9	2059.5	2006.4	1940.1	1871.1	1783.5	1682.6	1589.7	1536.7	1520.7
12.5°	2128.5	2104.6	2038.3	1966.6	1871.1	1701.2	1478.3	1255.3	1082.8	1005.9	984.6
15°	2141.8	2109.9	2022.3	1924.1	1746.3	1401.3	1040.4	745.8	557.3	498.9	485.7
17.5°	2155.0	2109.9	1998.4	1865.7	1518.1	1016.5	591.8	392.8	331.7	318.5	318.5
20°	2160.3	2104.6	1966.6	1756.9	1212.9	631.6	353.0	294.6	270.7	262.7	262.7
22.5°	2181.6	2107.3	1942.7	1600.3	881.1	371.6	278.7	246.8	222.9	215.0	215.0
25°	2234.6	2139.1	1948.0	1401.3	565.3	281.3	236.2	204.4	180.5	169.9	169.9
27.5°	2319.6	2210.8	1977.2	1170.4	355.6	241.5	199.0	164.5	146.0	135.4	135.4
30°	2415.1	2290.4	1990.5	905.0	265.4	204.4	161.9	130.0	116.8	108.8	106.2
32.5°	2582.3	2428.4	1979.9	621.0	217.6	172.5	130.0	103.5	92.9	90.2	90.2
35°	2850.4	2669.9	1958.6	390.1	180.5	138.0	103.5	84.9	77.0	74.3	71.7
37.5°	3214.0	3022.9	1894.9	257.4	148.6	108.8	84.9	71.7	63.7	61.0	61.0
40°	3657.2	3426.3	1772.9	196.4	127.4	87.6	71.7	61.0	55.7	53.1	53.1
42.5°	4164.1	3874.8	1579.1	169.9	106.2	74.3	61.0	50.4	47.8	45.1	45.1
45°	4718.8	4344.6	1311.1	151.3	90.2	61.0	50.4	45.1	39.8	39.8	37.2
47.5°	5307.9	4817.0	1008.5	132.7	77.0	53.1	45.1	37.2	34.5	31.8	31.8
50°	5875.9	5238.9	708.6	114.1	63.7	45.1	37.2	31.8	29.2	26.5	26.5
52.5°	6276.6	5493.7	501.6	98.2	53.1	39.8	29.2	23.9	21.2	21.2	21.2
55°	6597.8	5653.0	350.3	82.3	45.1	34.5	23.9	18.6	18.6	15.9	15.9
57.5°	6900.3	5756.5	257.4	69.0	37.2	26.5	18.6	13.3	13.3	10.6	10.6
60°	7213.5	5812.2	196.4	55.7	31.8	21.2	13.3	10.6	8.0	8.0	8.0
62.5°	7529.3	5846.7	151.3	45.1	26.5	15.9	10.6	8.0	5.3	2.7	2.7
65°	7805.3	5857.3	116.8	34.5	21.2	10.6	8.0	2.7	0.0	0.0	0.0
67.5°	7887.6	5735.2	90.2	26.5	15.9	8.0	5.3	0.0	0.0	0.0	0.0
70°	7664.7	5411.5	69.0	21.2	13.3	5.3	2.7	0.0	0.0	0.0	0.0
72.5°	6802.1	4538.3	53.1	13.3	10.6	5.3	2.7	0.0	0.0	0.0	0.0
75°	4867.4	2420.4	37.2	10.6	8.0	2.7	0.0	0.0	0.0	0.0	0.0
77.5°	2240.0	936.9	26.5	8.0	5.3	2.7	0.0	0.0	0.0	0.0	0.0
80°	437.9	233.5	10.6	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	100.9	39.8	5.3	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.5	13.3	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.3	5.3	2.7	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)