

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: P400186

Luminaire Tested: **ARCH-L-PA3-240-830-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400186
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-PA3-240-830-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1030mA 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: 19035 lumens
Efficiency: N/A
Efficacy: 78.7 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

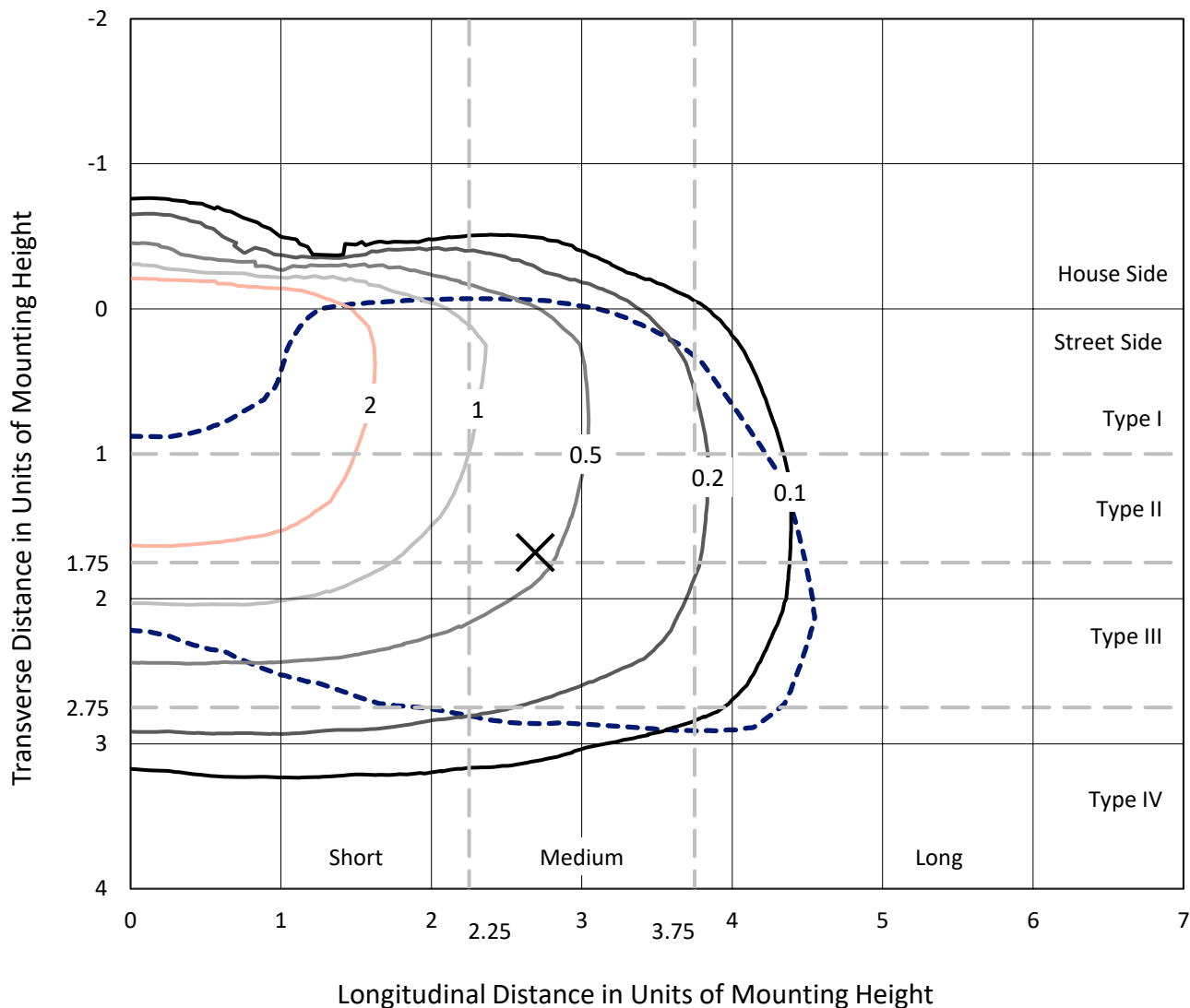
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

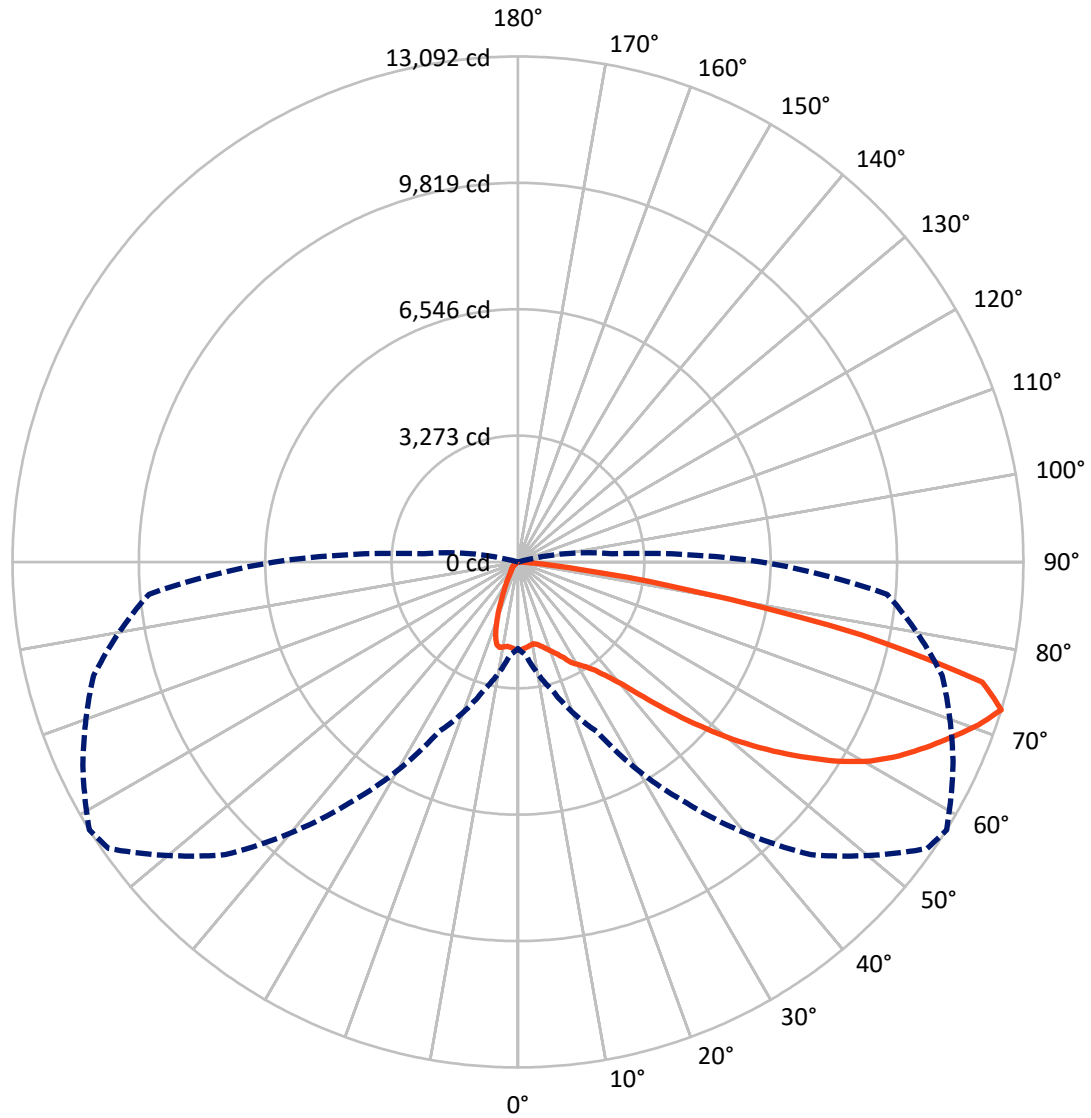
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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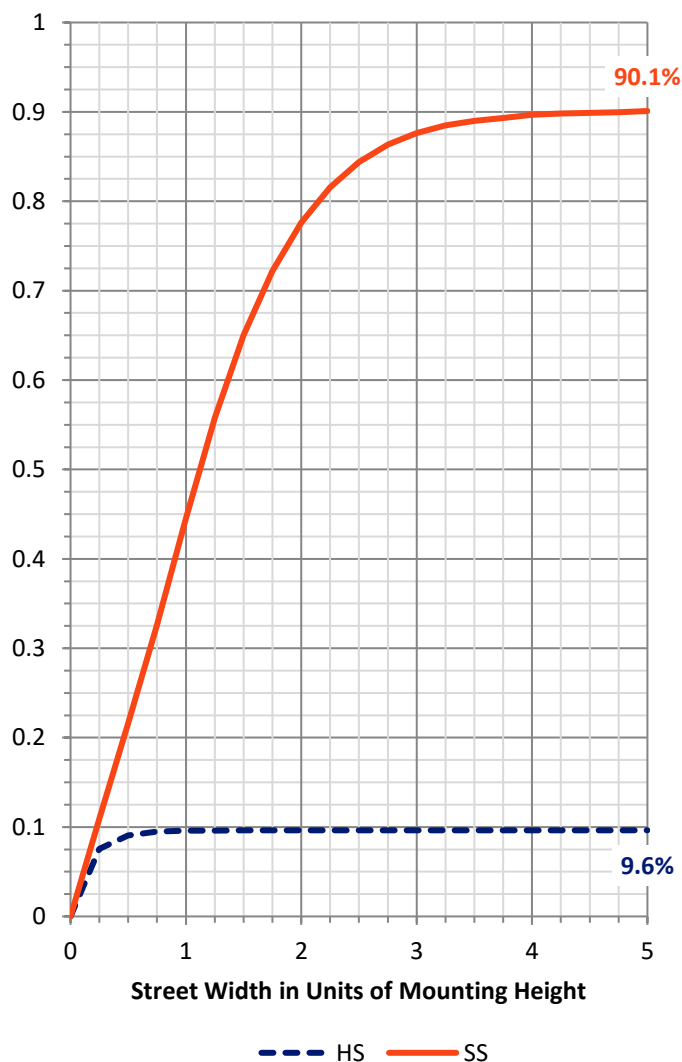
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1851.0	0.0	1851.0
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	17184.0	0.0	17184.0
	% Fixture	90.3	0.0	90.3
Total	Lumens	19035.0	0.0	19035.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.6	1.1
10°-20°	546.0	2.9
20°-30°	857.7	4.5
30°-40°	1479.2	7.8
40°-50°	2814.2	14.8
50°-60°	4456.8	23.4
60°-70°	5200.6	27.3
70°-80°	3257.2	17.1
80°-90°	213.8	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°	19035.0	100.0
0°-180°	19035.0	100.0

Coefficient of Utilization

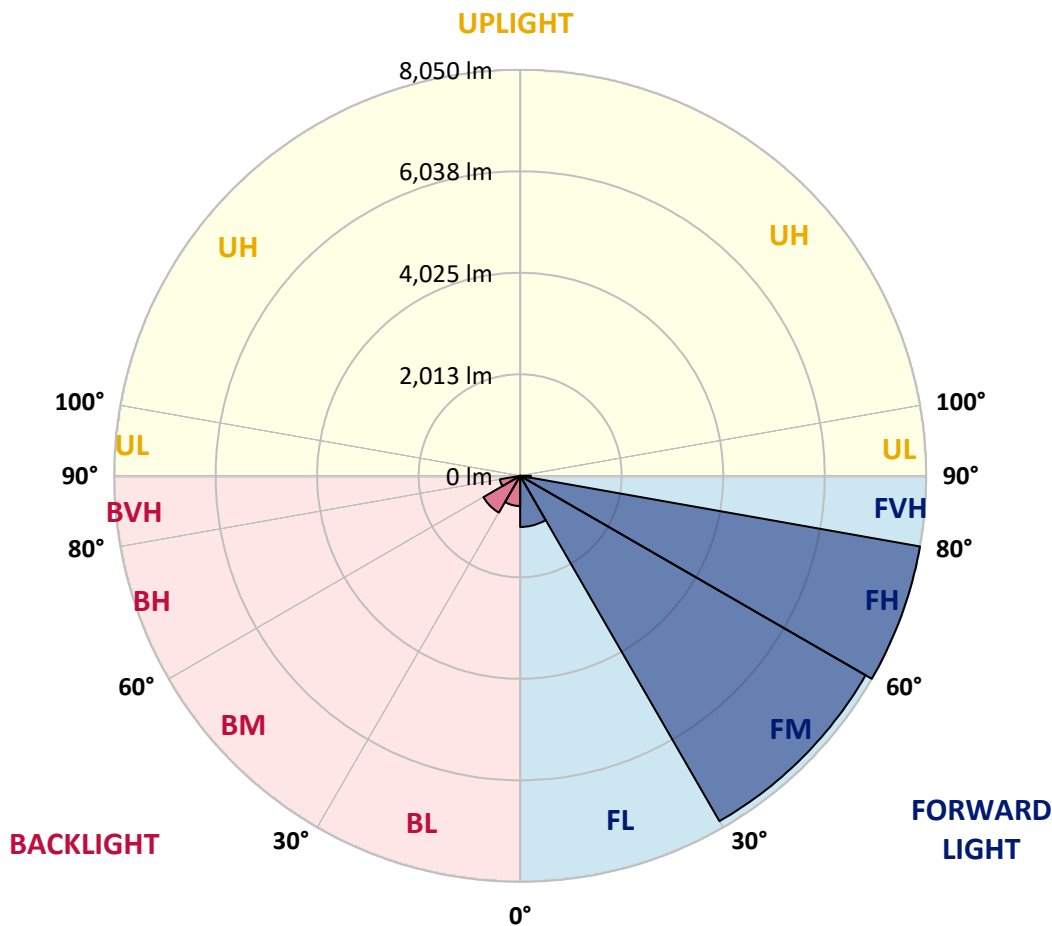


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1013.9	5.3			
FM (30°-60°)	7907.9	41.5			
FH (60°-80°)	8050.4	42.3			G4/12000
FVH (80°-90°)	211.7	1.1			G2/225
BL (0°-30°)	599.4	3.1	B2/1000		
BM (30°-60°)	842.2	4.4	B1/1000		
BH (60°-80°)	407.3	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°	2284.1	2284.1	2284.1	2284.1	2284.1	2284.1	2284.1	2284.1	2284.1	2284.1	2284.1
2.5°	2273.9	2263.7	2260.3	2256.9	2260.3	2263.7	2253.4	2263.7	2256.9	2260.3	2267.1
5°	2192.2	2182.0	2178.6	2182.0	2192.2	2209.2	2216.0	2226.2	2226.2	2236.4	2239.8
7.5°	2100.3	2093.5	2090.1	2096.9	2117.3	2154.7	2175.2	2188.8	2202.4	2222.8	2243.2
10°	2049.2	2045.8	2042.4	2052.6	2073.0	2107.1	2134.3	2154.7	2205.8	2263.7	2301.1
12.5°	2015.2	2015.2	2022.0	2042.4	2069.6	2096.9	2161.5	2188.8	2267.1	2355.6	2406.6
15°	1987.9	1987.9	1998.1	2035.6	2073.0	2137.7	2233.0	2263.7	2355.6	2464.5	2532.6
17.5°	1967.5	1974.3	1981.1	2018.6	2090.1	2199.0	2311.3	2355.6	2467.9	2587.0	2661.9
20°	1970.9	1977.7	1981.1	2018.6	2120.7	2270.5	2413.4	2464.5	2593.8	2719.8	2794.7
22.5°	1991.3	2001.6	2005.0	2056.0	2175.2	2345.4	2529.2	2587.0	2726.6	2859.4	2917.2
25°	2076.4	2083.2	2062.8	2107.1	2253.4	2461.1	2678.9	2740.2	2879.8	3002.3	3050.0
27.5°	2365.8	2372.6	2260.3	2209.2	2314.7	2556.4	2862.8	2947.9	3121.5	3203.2	3210.0
30°	2992.1	2998.9	2777.7	2536.0	2461.1	2638.1	2964.9	3084.0	3308.7	3400.6	3359.7
32.5°	3798.9	3792.1	3489.1	3131.7	2808.3	2781.1	3111.3	3237.2	3482.3	3570.8	3540.2
35°	4609.0	4619.2	4360.5	3822.7	3359.7	3050.0	3298.5	3444.8	3741.0	3866.9	3812.5
37.5°	5163.9	5231.9	5119.6	4537.5	4037.1	3547.0	3601.4	3758.0	4129.1	4299.3	4183.5
40°	5946.8	5929.8	5657.4	5228.5	4786.0	4282.2	4091.6	4166.5	4592.0	4820.1	4639.7
42.5°	6998.6	6964.6	6501.6	6082.9	5589.4	5177.5	4789.4	4775.8	5123.0	5388.5	5126.4
45°	7951.7	7900.7	7584.1	7179.0	6637.8	6164.6	5640.4	5521.3	5763.0	5987.6	5681.3
47.5°	8710.8	8625.7	8401.1	8186.6	8053.9	7318.6	6532.3	6351.9	6474.4	6641.2	6208.9
50°	9609.5	9374.6	9047.8	8918.5	9194.2	8625.7	7390.1	7216.5	7209.7	7305.0	6753.5
52.5°	10018.0	9592.5	9408.7	9517.6	10004.4	9841.0	8316.0	8067.5	7968.8	7979.0	7260.7
55°	9524.4	9476.7	9575.5	9915.9	10552.4	10457.1	9204.4	8898.1	8751.7	8567.9	7747.5
57.5°	8962.7	9109.1	9500.6	10150.7	11246.8	11100.4	10079.2	9732.0	9463.1	9041.0	8288.7
60°	8445.3	8595.1	9241.9	10205.2	11628.1	11720.0	10807.7	10477.5	10079.2	9524.4	8884.4
62.5°	7659.0	7774.7	8683.6	10126.9	11461.3	12080.8	11314.9	11066.4	10695.4	9983.9	9568.6
65°	6774.0	6848.8	7747.5	9500.6	11134.5	12039.9	11733.6	11594.0	11233.2	10463.9	10246.0
67.5°	5803.8	5892.3	6641.2	8373.8	10494.5	11849.3	12128.5	12114.8	11703.0	10994.9	10736.2
70°	4687.3	4694.1	5313.6	6944.2	9378.0	11468.1	12618.6	12649.3	12152.3	11393.2	10756.6
72.5°	2243.2	2427.1	3444.8	4847.3	7621.6	10719.2	12938.6	13091.8	12434.8	11379.6	9595.9
75°	514.0	531.0	1004.2	2304.5	4469.5	8227.5	12138.7	12424.6	11747.2	9841.0	6760.3
77.5°	187.2	197.4	282.5	674.0	1719.0	4251.6	8687.0	9105.7	8683.6	6362.1	3196.4
80°	125.9	122.5	146.4	299.6	789.7	1205.0	4442.2	4690.7	4282.2	2171.8	765.9
82.5°	64.7	68.1	102.1	166.8	531.0	418.7	1484.1	1613.5	1327.6	435.7	143.0
85°	30.6	30.6	57.9	105.5	224.7	146.4	330.2	398.3	357.4	190.6	47.7
87.5°	30.6	30.6	54.5	68.1	115.7	61.3	81.7	102.1	95.3	102.1	17.0
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°	2284.1	2284.1	2284.1	2284.1	2284.1	2284.1	2284.1	2284.1	2284.1	2284.1	2284.1
2.5°	2267.1	2263.7	2260.3	2267.1	2263.7	2270.5	2270.5	2277.3	2277.3	2270.5	2267.1
5°	2236.4	2229.6	2222.8	2222.8	2219.4	2226.2	2246.6	2263.7	2267.1	2256.9	2253.4
7.5°	2239.8	2239.8	2233.0	2219.4	2195.6	2195.6	2195.6	2216.0	2226.2	2219.4	2216.0
10°	2301.1	2304.5	2287.5	2256.9	2216.0	2178.6	2107.1	2001.6	1902.8	1875.6	1865.4
12.5°	2406.6	2410.0	2376.0	2321.5	2236.4	2015.2	1742.8	1491.0	1296.9	1242.5	1232.2
15°	2532.6	2536.0	2474.7	2386.2	2127.5	1613.5	1208.4	922.5	752.3	711.4	708.0
17.5°	2661.9	2655.1	2563.2	2393.0	1804.1	1143.7	735.3	588.9	544.6	534.4	537.8
20°	2787.9	2767.5	2641.5	2267.1	1388.8	748.9	537.8	503.8	493.6	486.8	486.8
22.5°	2903.6	2862.8	2706.2	2018.6	973.5	537.8	480.0	473.2	459.5	449.3	445.9
25°	3019.3	2961.5	2747.0	1695.2	653.6	469.8	452.7	439.1	422.1	408.5	405.1
27.5°	3158.9	3077.2	2726.6	1286.7	490.2	435.7	422.1	401.7	377.8	357.4	350.6
30°	3291.7	3199.8	2610.9	888.4	418.7	401.7	381.2	350.6	320.0	296.1	289.3
32.5°	3458.5	3352.9	2403.2	582.1	364.2	350.6	330.2	292.7	251.9	224.7	217.9
35°	3696.7	3577.6	2137.7	408.5	320.0	296.1	268.9	228.1	183.8	163.4	160.0
37.5°	4030.3	3870.3	1804.1	330.2	282.5	248.5	207.6	166.8	136.2	119.1	115.7
40°	4438.8	4193.7	1433.1	292.7	251.9	207.6	156.6	119.1	98.7	85.1	85.1
42.5°	4881.3	4496.7	1055.2	268.9	221.3	170.2	115.7	85.1	71.5	64.7	61.3
45°	5337.5	4765.6	711.4	248.5	194.0	129.4	81.7	57.9	47.7	47.7	44.3
47.5°	5810.6	4946.0	459.5	224.7	163.4	95.3	54.5	40.8	34.0	34.0	34.0
50°	6280.4	5041.3	326.8	204.2	132.8	64.7	40.8	30.6	27.2	27.2	27.2
52.5°	6620.8	4980.1	262.1	177.0	102.1	47.7	30.6	23.8	20.4	20.4	20.4
55°	6916.9	4874.5	228.1	153.2	74.9	34.0	23.8	20.4	17.0	17.0	17.0
57.5°	7219.9	4738.4	204.2	129.4	54.5	23.8	17.0	13.6	13.6	13.6	13.6
60°	7495.6	4506.9	177.0	102.1	37.4	17.0	13.6	10.2	10.2	10.2	10.2
62.5°	7764.5	4309.5	153.2	78.3	27.2	13.6	6.8	6.8	3.4	3.4	3.4
65°	7917.7	4044.0	122.5	51.1	17.0	10.2	3.4	3.4	0.0	0.0	0.0
67.5°	7870.0	3727.4	85.1	30.6	10.2	6.8	3.4	0.0	0.0	0.0	0.0
70°	7539.9	3301.9	51.1	17.0	10.2	6.8	3.4	0.0	0.0	0.0	0.0
72.5°	6314.4	2444.1	30.6	13.6	6.8	3.4	0.0	0.0	0.0	0.0	0.0
75°	4217.6	1123.3	17.0	10.2	3.4	3.4	0.0	0.0	0.0	0.0	0.0
77.5°	1930.1	337.0	10.2	6.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	388.1	88.5	6.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	81.7	17.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.0	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.8	3.4	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)