

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: P400254

Luminaire Tested: **ARCH-L-PA3-250-830-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-250-830-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21280 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

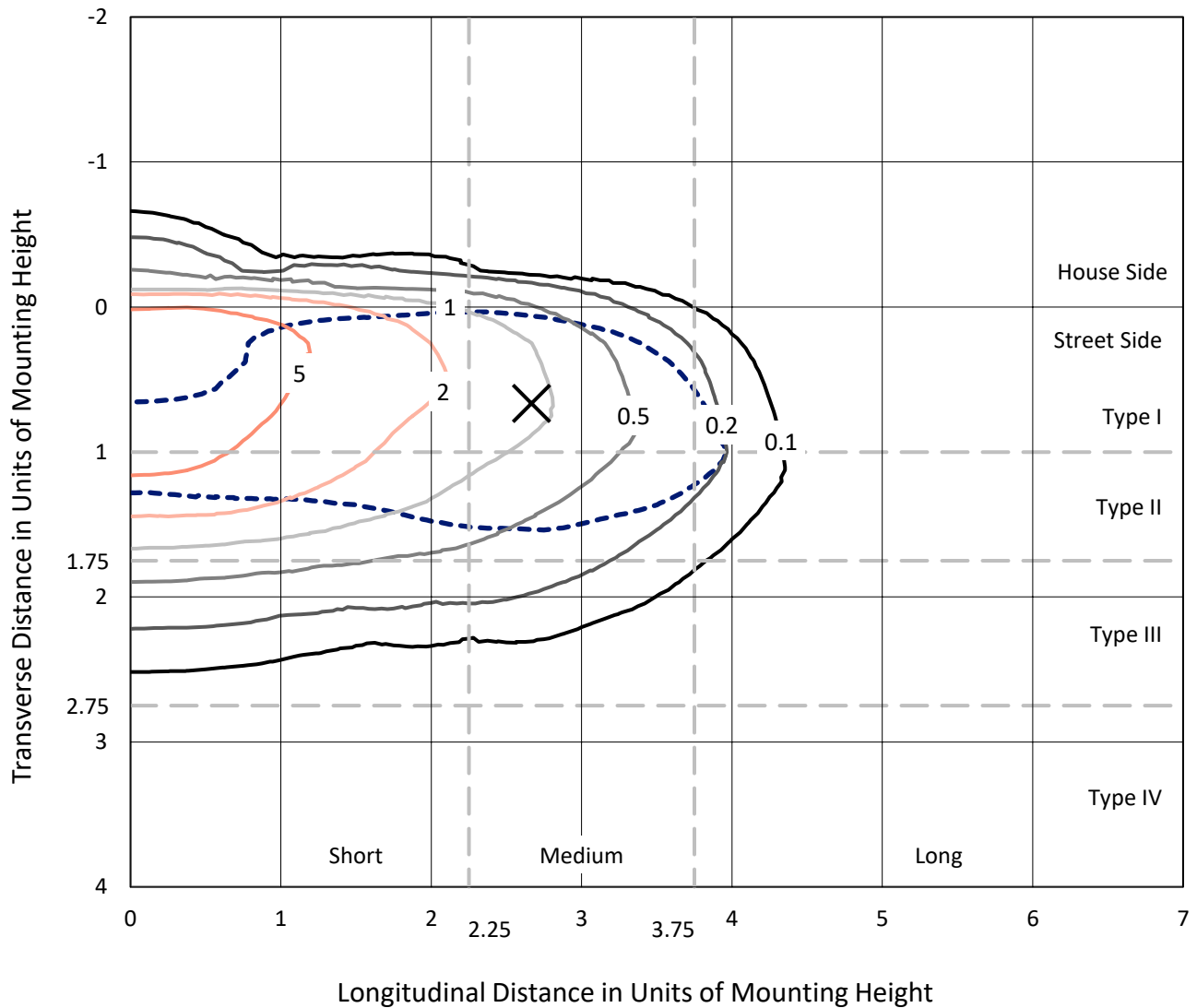
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

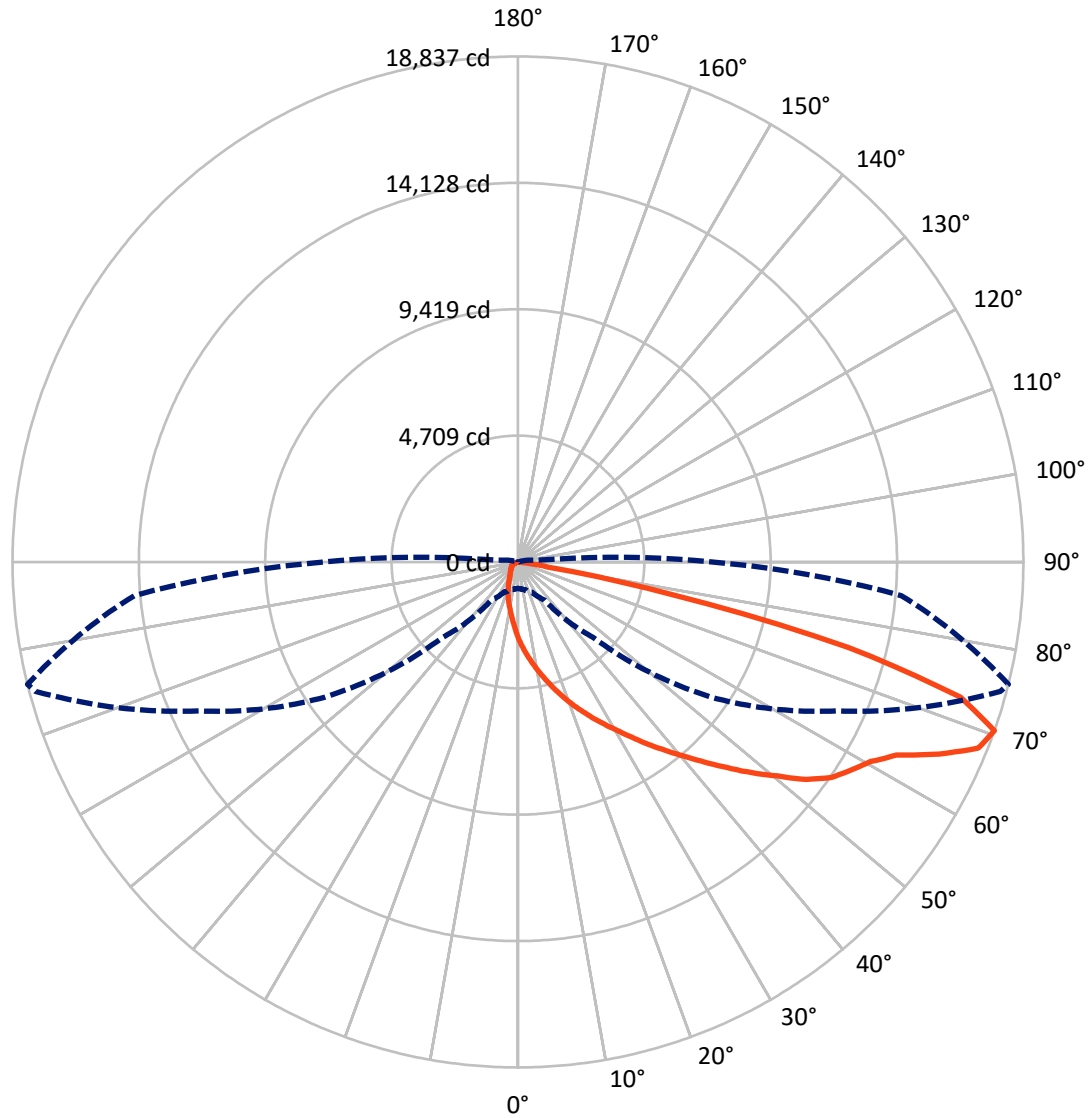
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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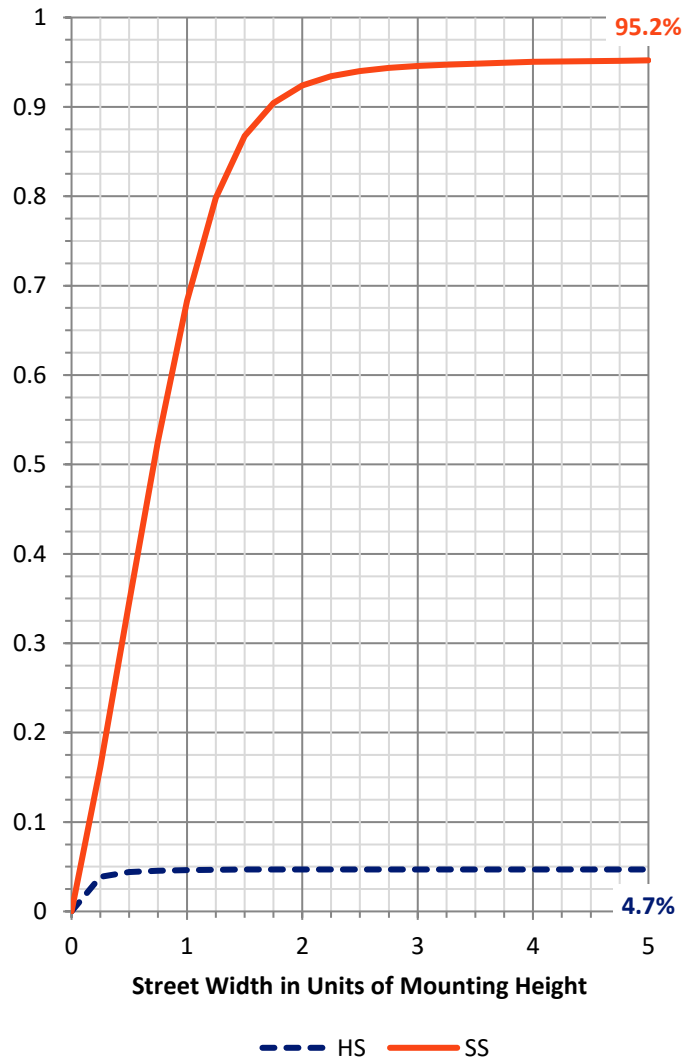
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1003.6	0.0	1003.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	20276.4	0.0	20276.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	21280.0	0.0	21280.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.3	1.3
10°-20°	866.1	4.1
20°-30°	1613.0	7.6
30°-40°	2853.0	13.4
40°-50°	4362.9	20.5
50°-60°	4946.5	23.2
60°-70°	4240.3	19.9
70°-80°	2053.8	9.7
80°-90°	76.2	0.4
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°	21280.0	100.0
0°-180°	21280.0	100.0

Coefficient of Utilization

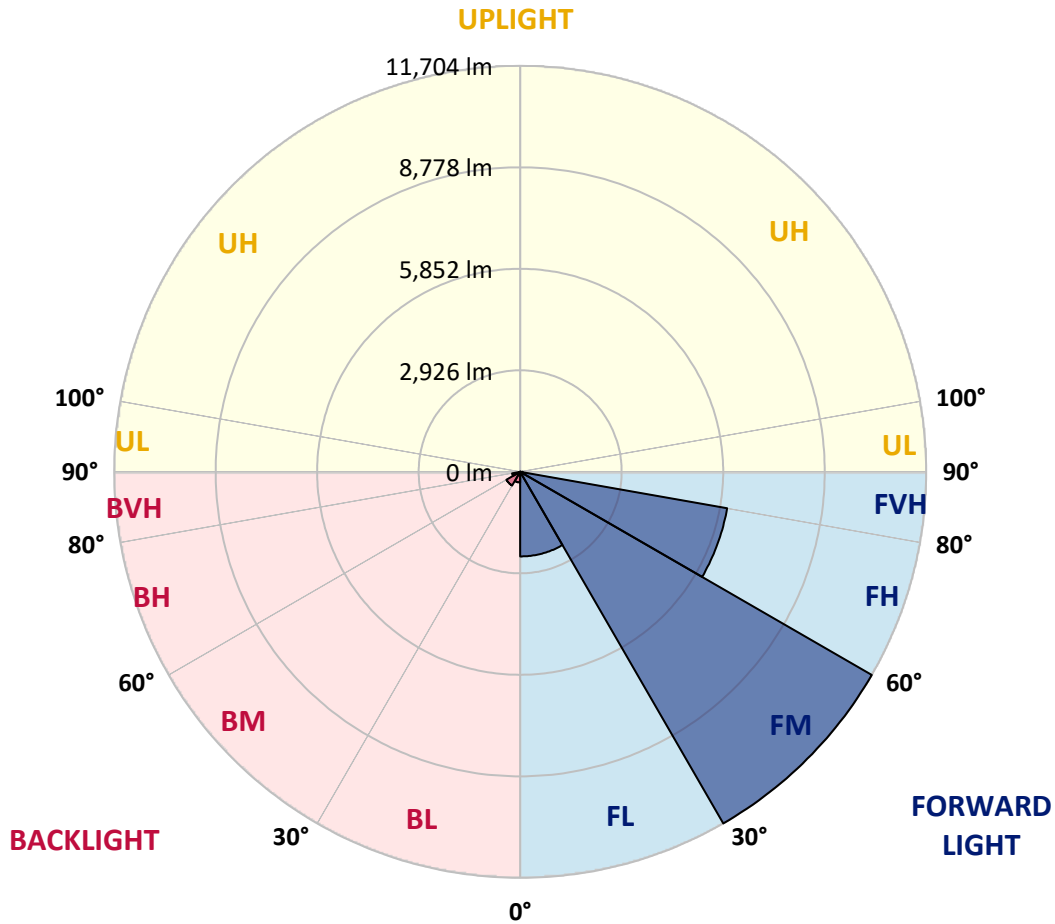


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2439.5	11.5			
FM (30°-60°)	11704.2	55.0			
FH (60°-80°)	6057.8	28.5			G3/7500
FVH (80°-90°)	74.9	0.4			G1/100
BL (0°-30°)	307.9	1.4	B1/500		
BM (30°-60°)	458.1	2.2	B1/1000		
BH (60°-80°)	236.3	1.1	B1/500		G1/500
BVH (80°-90°)	1.3	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-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2848.5	2848.5	2848.5	2848.5	2848.5	2848.5	2848.5	2848.5	2848.5	2848.5	2848.5
2.5°	3893.6	3872.4	3851.1	3769.6	3695.2	3627.9	3500.4	3333.8	3185.0	3153.2	2979.6
5°	4573.8	4549.0	4517.2	4435.7	4340.0	4226.6	4038.9	3783.8	3521.6	3464.9	3142.5
7.5°	5034.4	5013.2	4967.1	4928.1	4832.5	4722.6	4513.6	4216.0	3854.6	3783.8	3330.3
10°	5349.7	5335.6	5328.5	5296.6	5225.7	5137.2	4928.1	4616.4	4191.2	4109.7	3528.7
12.5°	5463.1	5463.1	5498.5	5551.7	5562.3	5534.0	5342.6	5030.9	4545.5	4460.5	3762.5
15°	5310.8	5328.5	5406.4	5576.5	5753.6	5870.5	5750.1	5459.6	4935.2	4843.1	4038.9
17.5°	5268.2	5286.0	5339.1	5487.9	5725.3	6037.0	6097.3	5874.1	5303.7	5225.7	4322.3
20°	5388.7	5406.4	5452.5	5580.0	5760.7	6076.0	6327.6	6274.4	5693.4	5611.9	4609.3
22.5°	5675.7	5686.3	5686.3	5785.5	5944.9	6178.8	6472.8	6653.5	6093.7	6005.2	4892.7
25°	6292.1	6270.9	6185.8	6136.2	6239.0	6430.3	6657.0	6986.5	6540.1	6419.7	5197.4
27.5°	7099.9	7170.8	6965.3	6727.9	6650.0	6759.8	6915.7	7280.6	6972.4	6844.8	5473.7
30°	8194.7	8166.3	7897.0	7556.9	7220.4	7181.4	7234.5	7532.1	7404.6	7284.1	5782.0
32.5°	9094.5	9147.7	8864.3	8449.7	7946.6	7709.3	7652.6	7833.3	7865.2	7787.2	6146.9
35°	10019.2	10075.9	9799.6	9339.0	8740.3	8343.5	8180.5	8205.3	8435.6	8336.4	6529.5
37.5°	10848.3	10897.9	10625.1	10153.9	9555.1	9069.7	8835.9	8644.6	8988.3	8899.7	6933.4
40°	11478.9	11486.0	11301.7	10880.1	10313.3	9810.2	9544.5	9168.9	9572.8	9512.6	7355.0
42.5°	11925.3	11939.5	11804.8	11443.5	10919.1	10451.5	10235.3	9788.9	10246.0	10192.8	7843.9
45°	12134.3	12159.1	12144.9	11811.9	11376.1	10972.3	10901.4	10447.9	10982.9	10933.3	8407.2
47.5°	11935.9	11935.9	12116.6	12070.5	11670.2	11400.9	11482.4	11135.2	11783.6	11737.5	8981.2
50°	11110.4	11121.1	11489.5	12017.4	11783.6	11723.3	11978.4	11808.4	12509.9	12538.2	9668.5
52.5°	8942.2	8924.5	10168.0	11181.3	11705.6	11868.6	12435.5	12495.7	13381.4	13466.4	10352.3
55°	6681.8	6671.2	7861.6	9700.4	11160.0	11794.2	12690.5	13108.6	14125.4	14178.6	10862.4
57.5°	5289.5	5261.2	5916.6	7819.1	9927.1	11461.2	12701.2	13225.5	14539.9	14632.0	11358.4
60°	4067.2	4042.4	4531.3	5817.4	8180.5	10575.5	12396.5	13232.6	14940.3	15103.2	12024.5
62.5°	2908.7	2937.0	3312.6	4173.5	6292.1	9324.8	11999.7	13331.8	15652.4	15836.6	12970.4
65°	1962.7	1948.6	2260.3	2841.4	4474.6	7642.0	11390.3	13540.8	16934.9	17257.3	14104.2
67.5°	1364.0	1374.6	1516.3	1849.4	2841.4	5867.0	10377.1	13657.8	18259.9	18511.5	14897.8
70°	984.9	999.1	1077.0	1243.5	1736.0	3978.6	8772.1	13122.8	18617.8	18837.4	14345.1
72.5°	648.3	676.7	793.6	882.2	1108.9	2490.6	6462.2	11305.3	17076.6	17239.6	12035.1
75°	350.7	357.8	510.2	659.0	790.1	1551.8	3854.6	7624.2	12775.6	12722.4	7936.0
77.5°	272.8	283.4	315.3	471.2	531.4	853.8	1523.4	3443.7	6051.2	5888.2	2706.8
80°	166.5	173.6	219.7	279.9	372.0	496.0	446.4	935.3	1229.4	1151.4	396.8
82.5°	99.2	106.3	131.1	233.8	294.1	233.8	155.9	226.7	230.3	226.7	99.2
85°	17.7	17.7	92.1	163.0	155.9	67.3	92.1	74.4	67.3	70.9	21.3
87.5°	0.0	0.0	35.4	49.6	70.9	24.8	35.4	17.7	17.7	17.7	10.6
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°	2848.5	2848.5	2848.5	2848.5	2848.5	2848.5	2848.5	2848.5	2848.5	2848.5	2848.5
2.5°	2873.3	2752.8	2504.8	2288.7	2072.6	1913.1	1792.7	1668.7	1626.2	1573.0	1544.7
5°	2922.9	2685.5	2193.0	1799.8	1466.7	1211.7	1048.7	949.5	885.7	839.7	829.0
7.5°	2997.3	2632.3	1941.5	1410.1	1045.1	790.1	655.4	588.1	552.7	531.4	524.3
10°	3085.8	2586.3	1693.5	1098.3	736.9	556.2	481.8	453.5	439.3	432.2	428.7
12.5°	3209.8	2568.6	1484.5	846.7	556.2	457.0	418.1	400.3	389.7	379.1	375.5
15°	3372.8	2575.7	1293.1	655.4	460.6	407.4	375.5	357.8	343.7	333.0	333.0
17.5°	3542.9	2586.3	1105.4	531.4	418.1	372.0	336.6	311.8	301.1	290.5	287.0
20°	3702.3	2582.7	924.7	453.5	379.1	333.0	297.6	272.8	255.1	244.5	244.5
22.5°	3854.6	2561.5	754.6	407.4	347.2	294.1	255.1	230.3	216.1	205.5	205.5
25°	4017.6	2519.0	616.5	372.0	308.2	258.6	219.7	194.9	184.2	173.6	173.6
27.5°	4145.2	2448.1	503.1	340.1	272.8	223.2	187.8	166.5	155.9	148.8	148.8
30°	4283.3	2345.4	418.1	304.7	237.4	191.3	159.4	141.7	131.1	127.5	127.5
32.5°	4435.7	2232.0	357.8	269.3	201.9	163.0	134.6	124.0	113.4	109.8	109.8
35°	4612.8	2132.8	322.4	233.8	177.1	138.2	116.9	106.3	99.2	99.2	99.2
37.5°	4814.8	2030.1	290.5	205.5	152.3	116.9	99.2	95.7	92.1	88.6	88.6
40°	5034.4	1920.2	262.2	180.7	131.1	99.2	85.0	85.0	81.5	81.5	81.5
42.5°	5282.4	1824.6	237.4	159.4	113.4	85.0	74.4	74.4	70.9	70.9	70.9
45°	5551.7	1736.0	216.1	141.7	99.2	74.4	67.3	63.8	60.2	60.2	60.2
47.5°	5870.5	1686.4	198.4	124.0	85.0	63.8	56.7	53.1	49.6	46.1	46.1
50°	6278.0	1707.7	180.7	102.7	74.4	53.1	46.1	42.5	39.0	35.4	35.4
52.5°	6600.4	1697.0	155.9	88.6	60.2	42.5	35.4	31.9	28.3	24.8	24.8
55°	6834.2	1654.5	134.6	74.4	46.1	35.4	28.3	21.3	17.7	17.7	17.7
57.5°	7064.5	1612.0	113.4	60.2	35.4	24.8	17.7	14.2	14.2	14.2	14.2
60°	7422.3	1551.8	99.2	49.6	28.3	17.7	10.6	10.6	7.1	7.1	7.1
62.5°	7858.1	1477.4	81.5	42.5	21.3	14.2	7.1	7.1	0.0	0.0	0.0
65°	8336.4	1346.3	67.3	31.9	17.7	10.6	7.1	0.0	0.0	0.0	0.0
67.5°	8226.5	1080.6	56.7	21.3	14.2	7.1	3.5	0.0	0.0	0.0	0.0
70°	7277.0	729.8	46.1	17.7	10.6	7.1	3.5	0.0	0.0	0.0	0.0
72.5°	5700.5	432.2	31.9	14.2	7.1	3.5	0.0	0.0	0.0	0.0	0.0
75°	3649.2	216.1	21.3	10.6	7.1	3.5	0.0	0.0	0.0	0.0	0.0
77.5°	1222.3	106.3	14.2	7.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	173.6	35.4	7.1	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	39.0	14.2	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.2	7.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.1	3.5	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)