

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: P400143

Luminaire Tested: **ARCH-L-PA3-240-730-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400143
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-PA3-240-730-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1030mA 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: 21535 lumens
Efficiency: N/A
Efficacy: 89.0 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

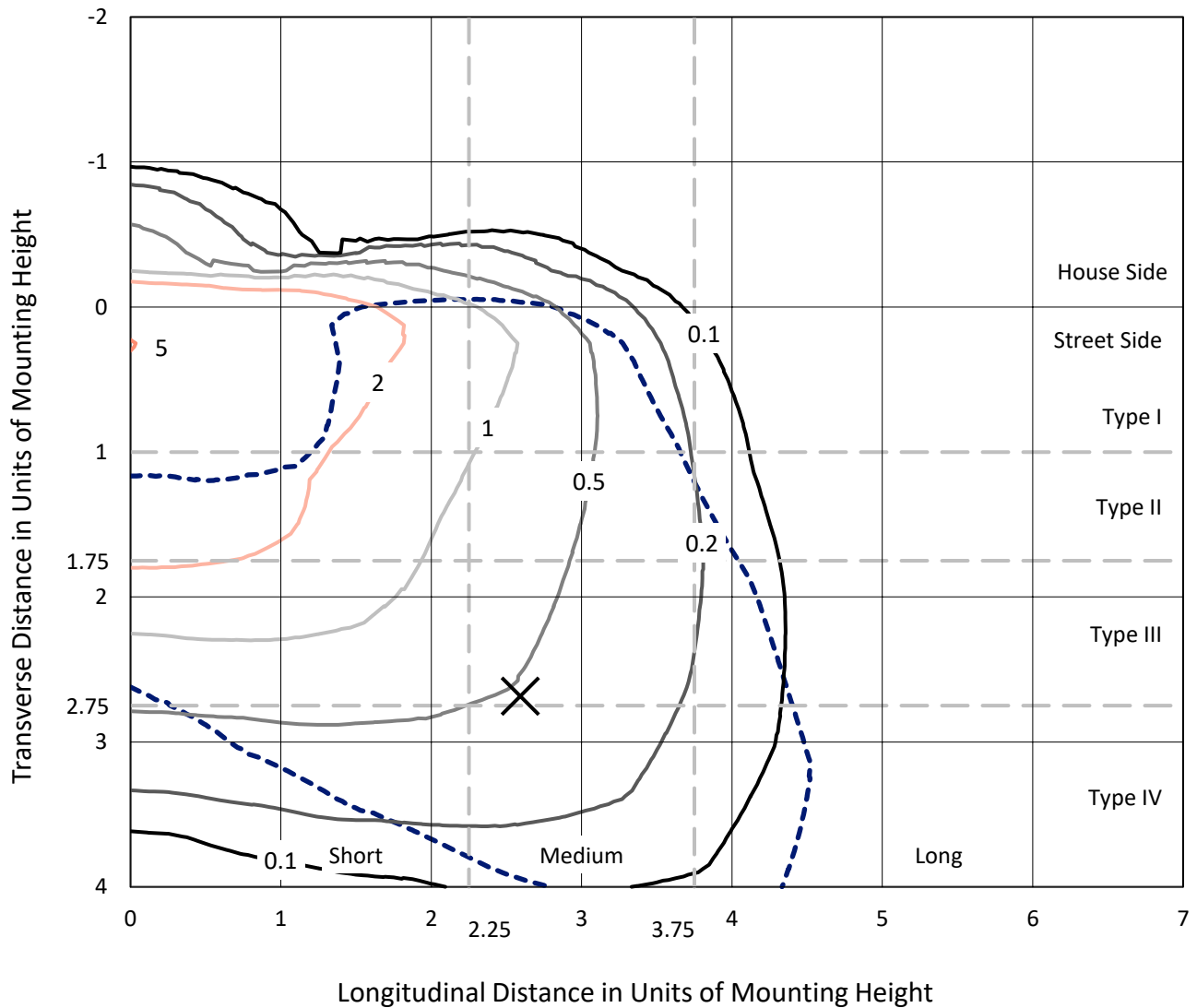
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

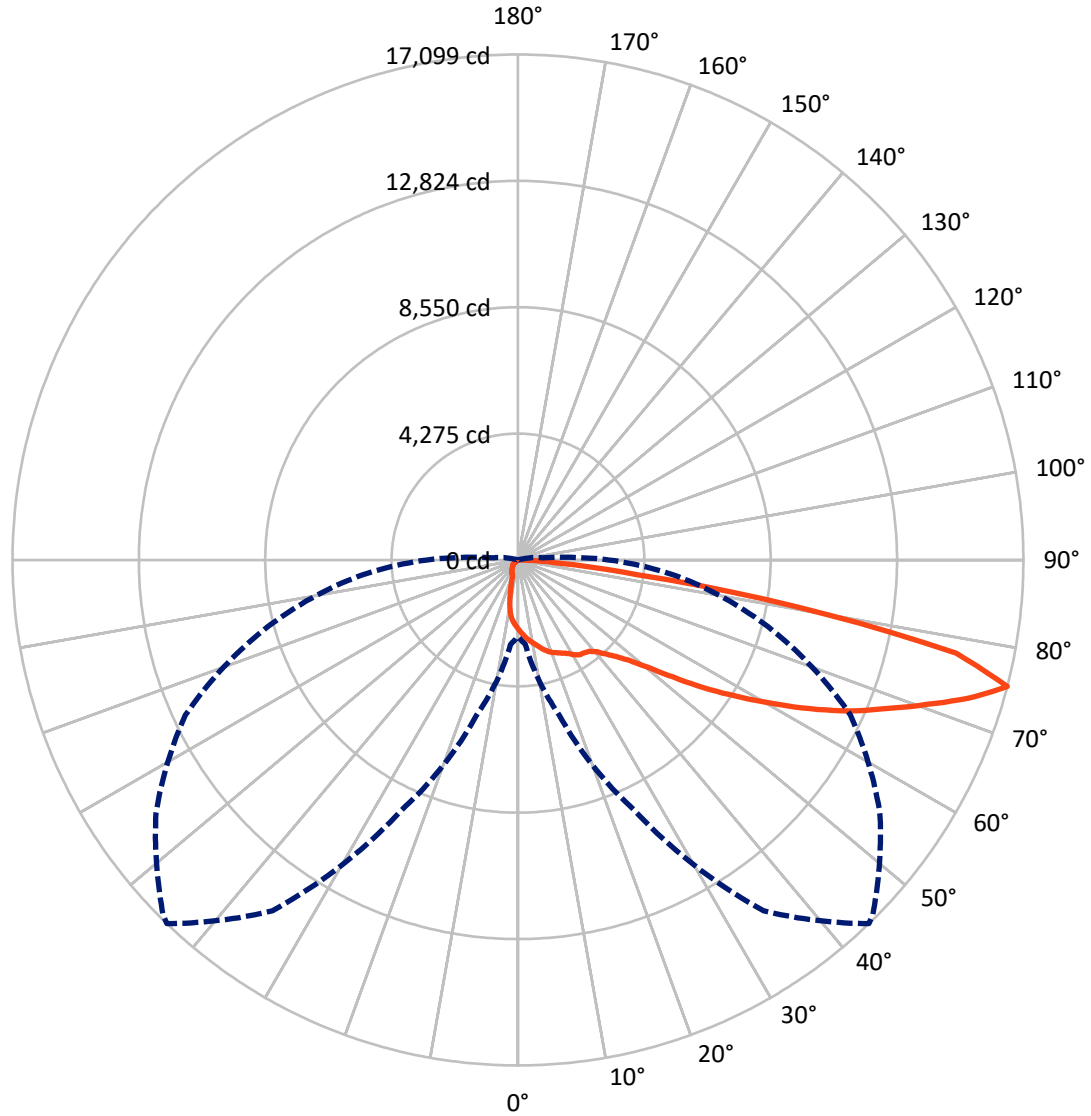
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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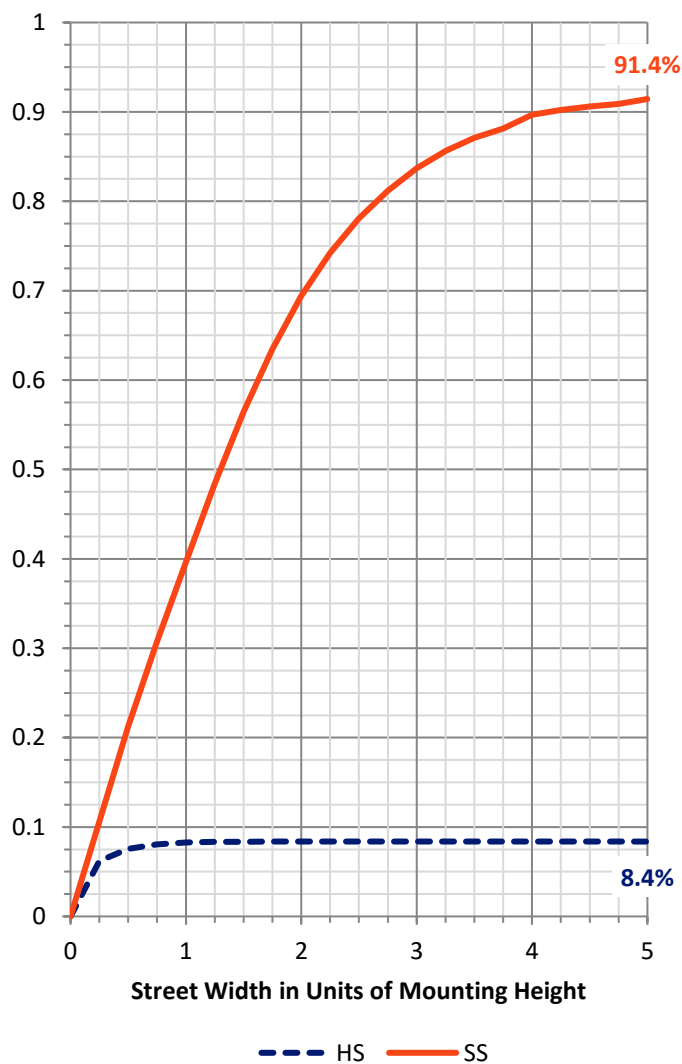
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1816.1	0.0	1816.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	19718.9	0.0	19718.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	21535.0	0.0	21535.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.1	1.0
10°-20°	619.4	2.9
20°-30°	1022.2	4.7
30°-40°	1483.7	6.9
40°-50°	2411.8	11.2
50°-60°	4251.7	19.7
60°-70°	6110.6	28.4
70°-80°	4893.2	22.7
80°-90°	521.3	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°	21535.0	100.0
0°-180°	21535.0	100.0

Coefficient of Utilization



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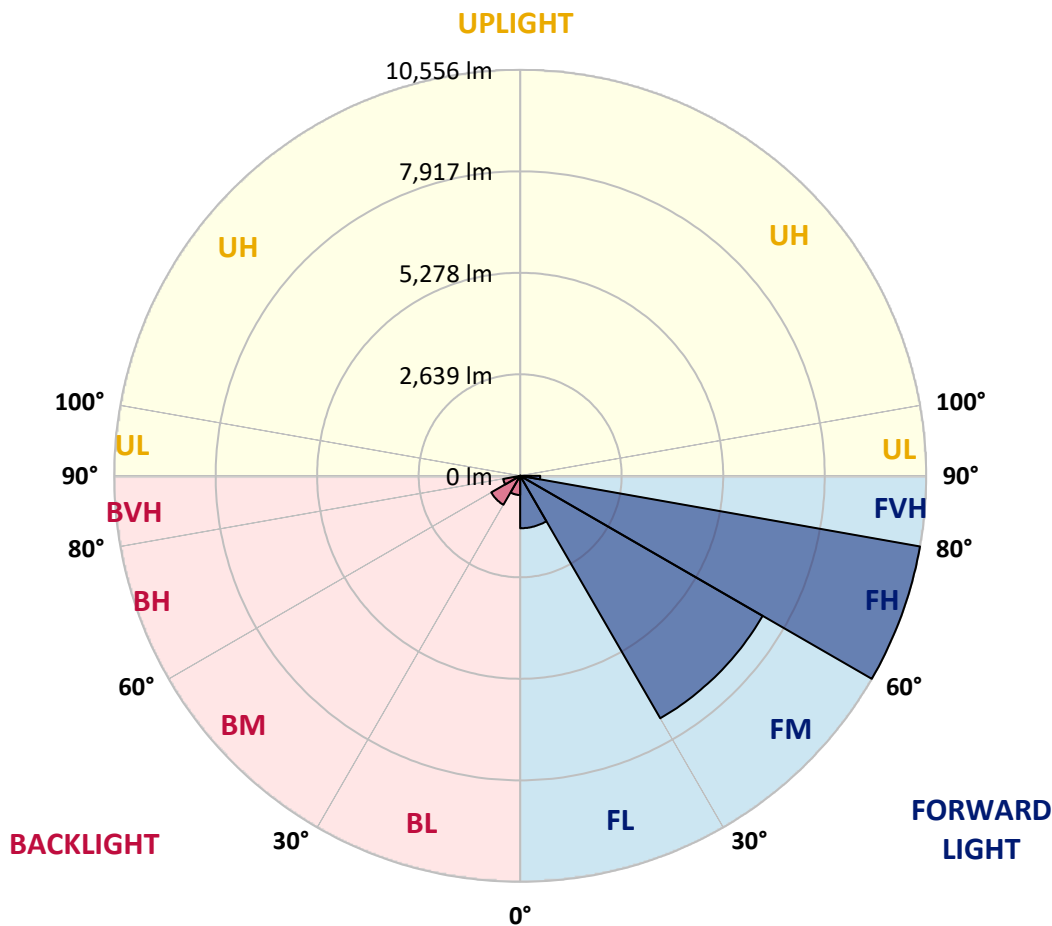
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1363.8	6.3			
FM (30°-60°)	7279.0	33.8			
FH (60°-80°)	10556.1	49.0			G4/12000
FVH (80°-90°)	520.0	2.4			G4/750
BL (0°-30°)	499.0	2.3	B1/500		
BM (30°-60°)	868.1	4.0	B1/1000		
BH (60°-80°)	447.7	2.1	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-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2344.0	2344.0	2344.0	2344.0	2344.0	2344.0	2344.0	2344.0	2344.0	2344.0	2344.0
2.5°	2554.6	2550.6	2538.7	2518.8	2498.9	2479.1	2475.1	2443.3	2407.6	2379.8	2355.9
5°	2781.0	2777.0	2757.2	2713.5	2669.8	2618.1	2614.2	2538.7	2471.1	2395.7	2332.1
7.5°	3015.4	3007.5	2971.7	2904.2	2828.7	2749.2	2741.3	2630.1	2530.7	2431.4	2340.0
10°	3198.2	3190.2	3138.6	3059.1	2955.8	2856.5	2844.6	2729.4	2630.1	2502.9	2379.8
12.5°	3377.0	3361.1	3293.5	3206.1	3079.0	2983.6	2971.7	2852.5	2733.3	2602.2	2451.3
15°	3543.8	3524.0	3460.4	3349.1	3214.1	3122.7	3114.7	2987.6	2864.5	2713.5	2546.6
17.5°	3659.0	3651.1	3575.6	3452.4	3321.3	3245.8	3237.9	3106.8	2983.6	2824.7	2645.9
20°	3718.6	3718.6	3647.1	3512.0	3392.8	3341.2	3329.3	3206.1	3086.9	2936.0	2749.2
22.5°	3730.5	3742.5	3686.8	3539.8	3452.4	3408.7	3400.8	3293.5	3178.3	3039.3	2864.5
25°	3754.4	3754.4	3726.6	3567.7	3504.1	3492.2	3488.2	3392.8	3289.6	3150.5	2979.7
27.5°	3782.2	3782.2	3762.3	3607.4	3583.5	3579.6	3575.6	3531.9	3448.5	3285.6	3114.7
30°	3853.7	3857.7	3841.8	3686.8	3670.9	3714.6	3722.6	3698.8	3595.5	3392.8	3253.8
32.5°	4032.5	3996.7	3953.0	3742.5	3770.3	3825.9	3829.9	3782.2	3670.9	3508.1	3420.7
35°	4481.4	4270.9	4072.2	3790.1	3802.1	3857.7	3865.6	3861.6	3794.1	3655.1	3611.4
37.5°	4898.6	4600.6	4318.5	3901.4	3861.6	3921.2	3937.1	4004.7	3953.0	3857.7	3869.6
40°	5140.9	5025.7	4827.1	4207.3	3980.8	4072.2	4088.1	4191.4	4171.5	4131.8	4207.3
42.5°	5887.8	5895.8	5681.2	4664.2	4199.3	4346.3	4366.2	4449.6	4477.4	4497.3	4680.1
45°	6753.9	6781.7	6730.1	5486.6	4612.5	4660.2	4688.0	4799.2	4902.5	5029.7	5363.4
47.5°	7794.8	7771.0	7580.3	6491.7	5331.6	5065.4	5085.3	5299.8	5478.6	5756.7	6233.5
50°	8716.5	8776.1	8414.6	7429.3	6344.7	5705.1	5685.2	5895.8	6217.6	6606.9	7206.8
52.5°	9646.2	9558.8	9070.1	8359.0	7544.5	6575.1	6515.5	6630.7	7083.7	7544.5	8160.3
55°	9892.5	9900.4	9733.6	9376.0	8545.7	7631.9	7532.6	7524.6	8088.8	8402.7	9161.5
57.5°	10377.2	10397.0	10436.8	10508.3	10115.0	8688.7	8585.4	8474.2	9022.4	9205.2	10166.6
60°	10869.8	10893.7	11136.0	11521.4	11259.2	9828.9	9717.7	9455.5	9761.4	10007.7	11223.4
62.5°	10806.3	10973.1	11676.3	12443.1	12411.3	11080.4	10941.3	10309.6	10504.3	10718.8	12192.8
65°	9757.4	9936.2	11517.4	12697.3	13567.4	12315.9	12089.5	11191.6	11203.5	11461.8	13126.4
67.5°	8819.8	9014.5	10524.2	12590.1	14330.2	13424.4	13190.0	12077.6	11890.8	12319.9	13627.0
70°	8279.5	8474.2	9733.6	12256.4	14544.7	14652.0	14449.4	13090.7	12709.3	13102.6	13066.8
72.5°	6479.8	6785.7	8724.5	11620.7	14775.2	15967.0	15808.1	14373.9	13404.5	12284.2	9948.1
75°	2582.4	2864.5	5446.8	9352.2	14485.1	17099.3	16976.1	14950.0	12407.3	8772.1	5093.2
77.5°	778.7	834.3	1513.7	4624.4	10619.5	15160.5	15120.8	12570.2	8780.1	4072.2	1390.5
80°	258.2	286.0	464.8	1275.3	4846.9	9471.4	9650.1	8009.3	3988.8	933.6	282.1
82.5°	107.3	119.2	234.4	512.5	1716.3	4080.2	4020.6	3587.5	1390.5	580.0	103.3
85°	27.8	35.8	107.3	294.0	627.7	1406.4	1477.9	1203.8	786.6	480.7	31.8
87.5°	0.0	0.0	51.6	119.2	282.1	425.1	445.0	365.5	445.0	361.5	15.9
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°	2344.0	2344.0	2344.0	2344.0	2344.0	2344.0	2344.0	2344.0	2344.0	2344.0	2344.0
2.5°	2336.1	2316.2	2280.4	2256.6	2224.8	2216.9	2201.0	2181.1	2177.1	2157.3	2161.3
5°	2296.3	2264.5	2201.0	2157.3	2105.6	2089.7	2061.9	2042.1	2026.2	1998.4	2002.3
7.5°	2288.4	2240.7	2153.3	2069.9	1986.4	1926.9	1843.4	1775.9	1720.3	1660.7	1672.6
10°	2316.2	2256.6	2133.4	2018.2	1867.3	1676.6	1458.0	1315.0	1243.5	1172.0	1179.9
12.5°	2371.8	2300.3	2141.4	1966.6	1660.7	1334.9	1033.0	838.3	786.6	754.8	758.8
15°	2455.2	2367.8	2165.2	1867.3	1382.6	965.4	687.3	603.9	623.7	635.7	635.7
17.5°	2542.6	2443.3	2185.1	1688.5	1068.7	675.4	560.2	552.2	580.0	607.9	607.9
20°	2649.9	2522.8	2189.1	1462.0	770.7	548.3	528.4	528.4	548.3	580.0	580.0
22.5°	2753.2	2610.2	2153.3	1203.8	588.0	508.5	508.5	508.5	520.4	552.2	556.2
25°	2876.4	2717.5	2077.8	929.7	504.6	484.7	484.7	488.7	496.6	524.4	528.4
27.5°	3007.5	2828.7	1950.7	679.4	460.9	456.9	460.9	464.8	468.8	496.6	504.6
30°	3158.4	2951.9	1787.8	508.5	421.1	421.1	433.0	441.0	441.0	464.8	472.8
32.5°	3333.3	3114.7	1593.1	421.1	381.4	377.4	397.3	409.2	409.2	429.1	437.0
35°	3551.8	3281.6	1358.7	373.5	349.6	341.7	349.6	369.5	377.4	393.3	397.3
37.5°	3841.8	3480.2	1108.4	345.6	325.8	309.9	309.9	313.9	329.7	345.6	349.6
40°	4211.3	3698.8	862.1	325.8	301.9	286.0	274.1	270.2	266.2	278.1	286.0
42.5°	4676.1	3945.1	643.6	305.9	282.1	258.2	242.3	226.5	206.6	202.6	206.6
45°	5272.0	4247.0	476.7	290.0	270.2	234.4	206.6	178.8	143.0	131.1	135.1
47.5°	5975.2	4560.9	373.5	274.1	262.2	206.6	170.8	123.2	87.4	79.5	83.4
50°	6722.1	4862.8	317.8	254.3	246.3	178.8	123.2	75.5	51.6	51.6	55.6
52.5°	7357.8	5033.6	290.0	238.4	222.5	147.0	79.5	43.7	31.8	31.8	35.8
55°	7973.6	5125.0	270.2	222.5	190.7	103.3	43.7	27.8	19.9	19.9	19.9
57.5°	8609.2	5164.8	246.3	202.6	151.0	63.6	23.8	15.9	11.9	11.9	11.9
60°	9173.4	5089.3	210.6	166.9	99.3	31.8	11.9	11.9	7.9	4.0	4.0
62.5°	9646.2	4946.2	147.0	119.2	59.6	15.9	7.9	4.0	0.0	0.0	0.0
65°	9936.2	4715.8	95.3	79.5	35.8	11.9	4.0	0.0	0.0	0.0	0.0
67.5°	9852.8	4282.8	59.6	51.6	15.9	7.9	4.0	0.0	0.0	0.0	0.0
70°	8891.3	3512.0	43.7	31.8	11.9	4.0	0.0	0.0	0.0	0.0	0.0
72.5°	6408.3	2375.8	31.8	19.9	7.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	3083.0	846.2	19.9	15.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	754.8	186.7	11.9	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	166.9	35.8	7.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	55.6	15.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.9	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.9	4.0	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)