

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: P400026

Luminaire Tested: **ARCH-L-PA3-220-760-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400026
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-PA3-220-760-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 945mA 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: 22314 lumens
Efficiency: N/A
Efficacy: 100.5 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

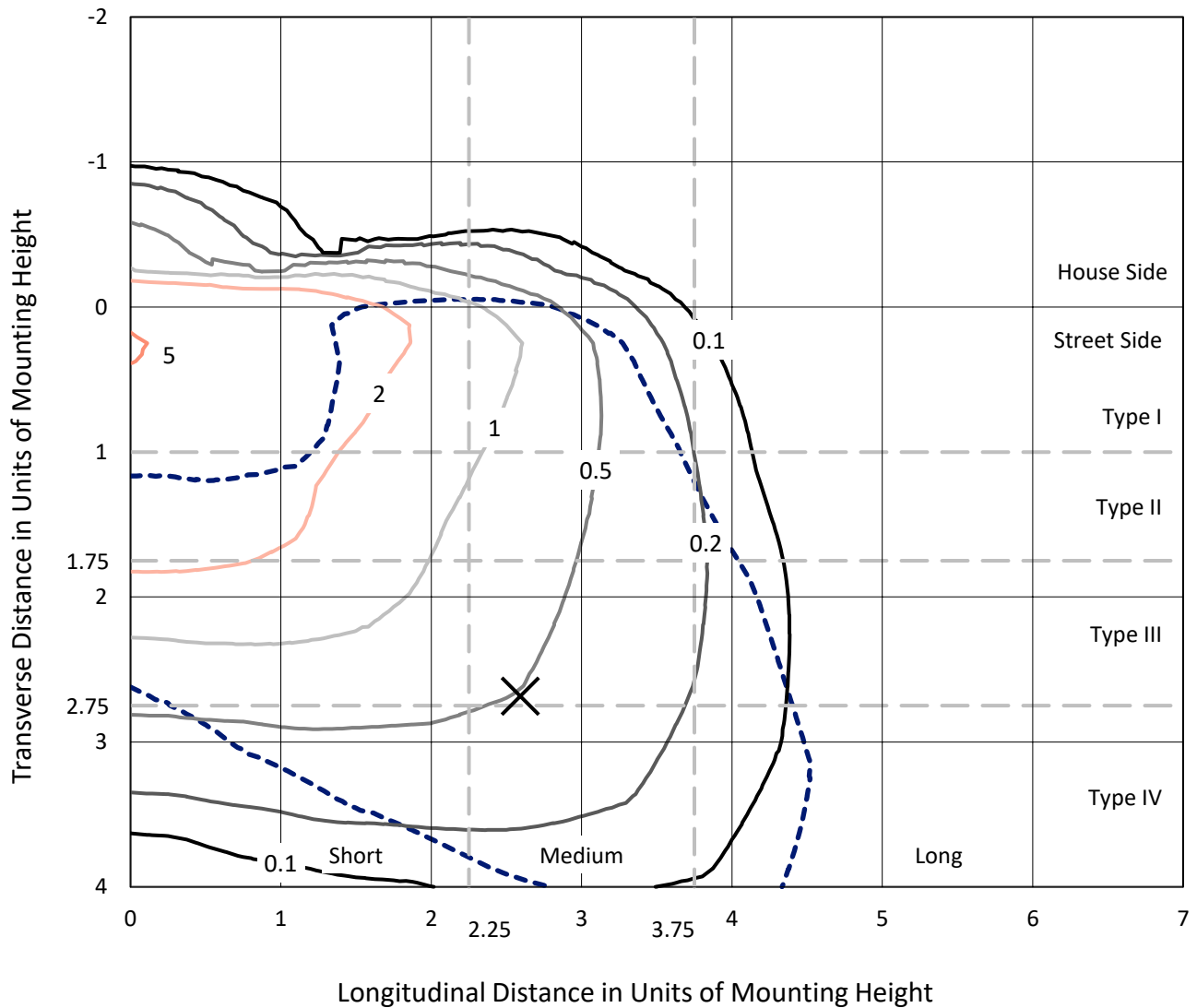
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

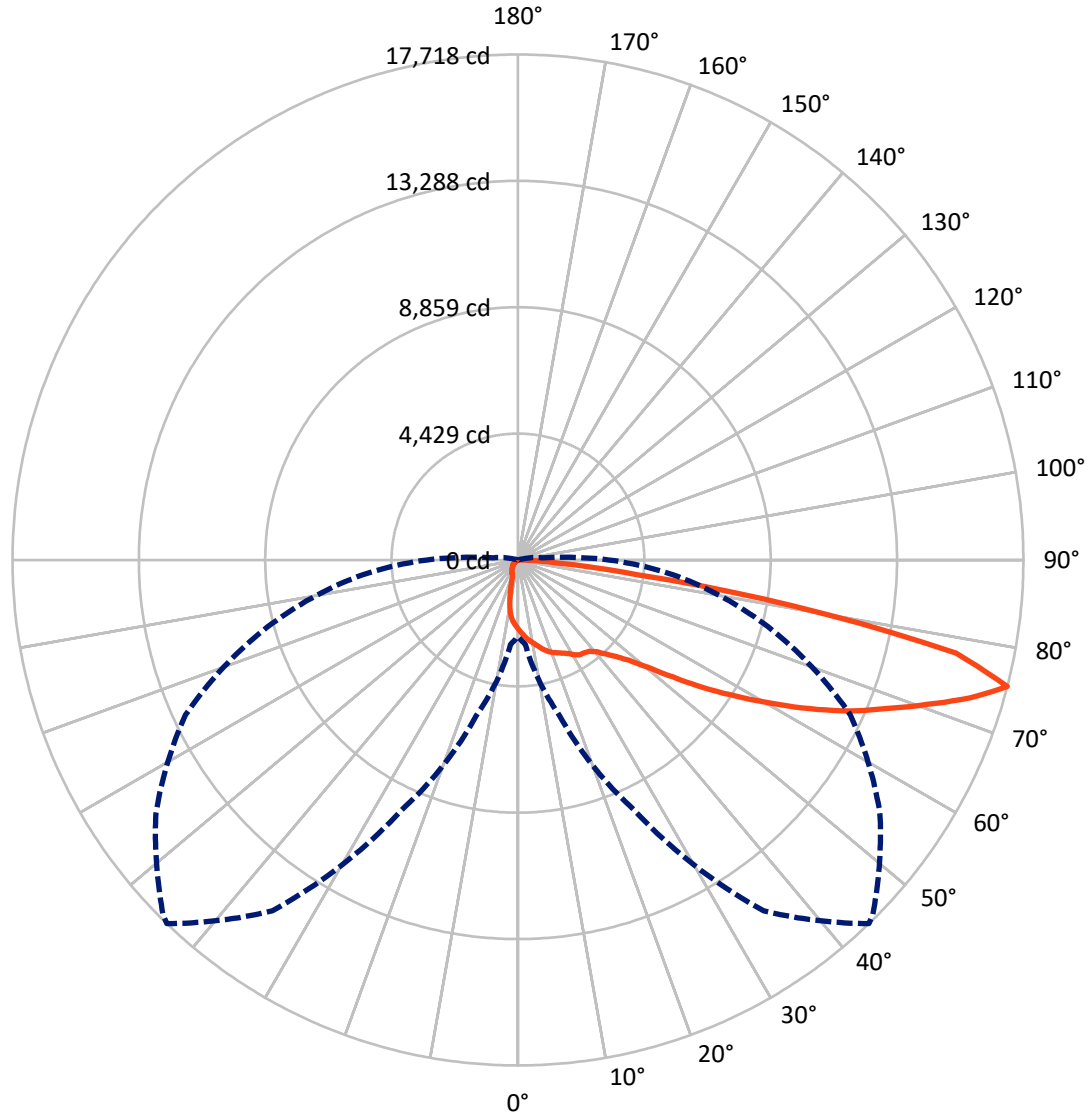
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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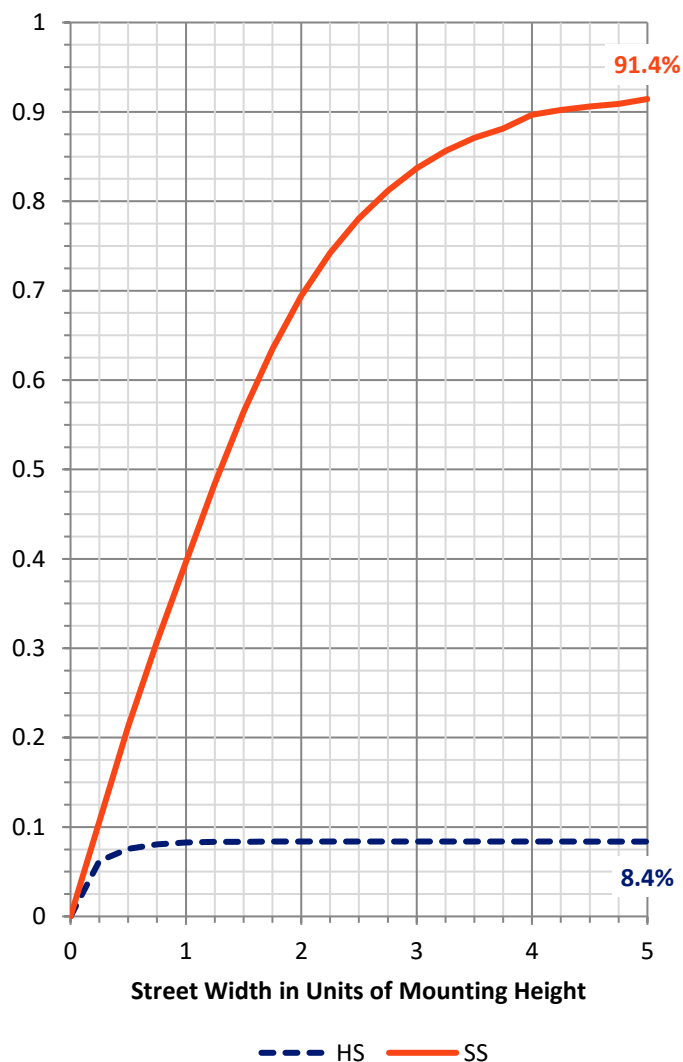
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1881.8	0.0	1881.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	20432.2	0.0	20432.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	22314.0	0.0	22314.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.1	1.0
10°-20°	641.8	2.9
20°-30°	1059.2	4.7
30°-40°	1537.3	6.9
40°-50°	2499.0	11.2
50°-60°	4405.5	19.7
60°-70°	6331.6	28.4
70°-80°	5070.2	22.7
80°-90°	540.2	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°	22314.0	100.0
0°-180°	22314.0	100.0

Coefficient of Utilization



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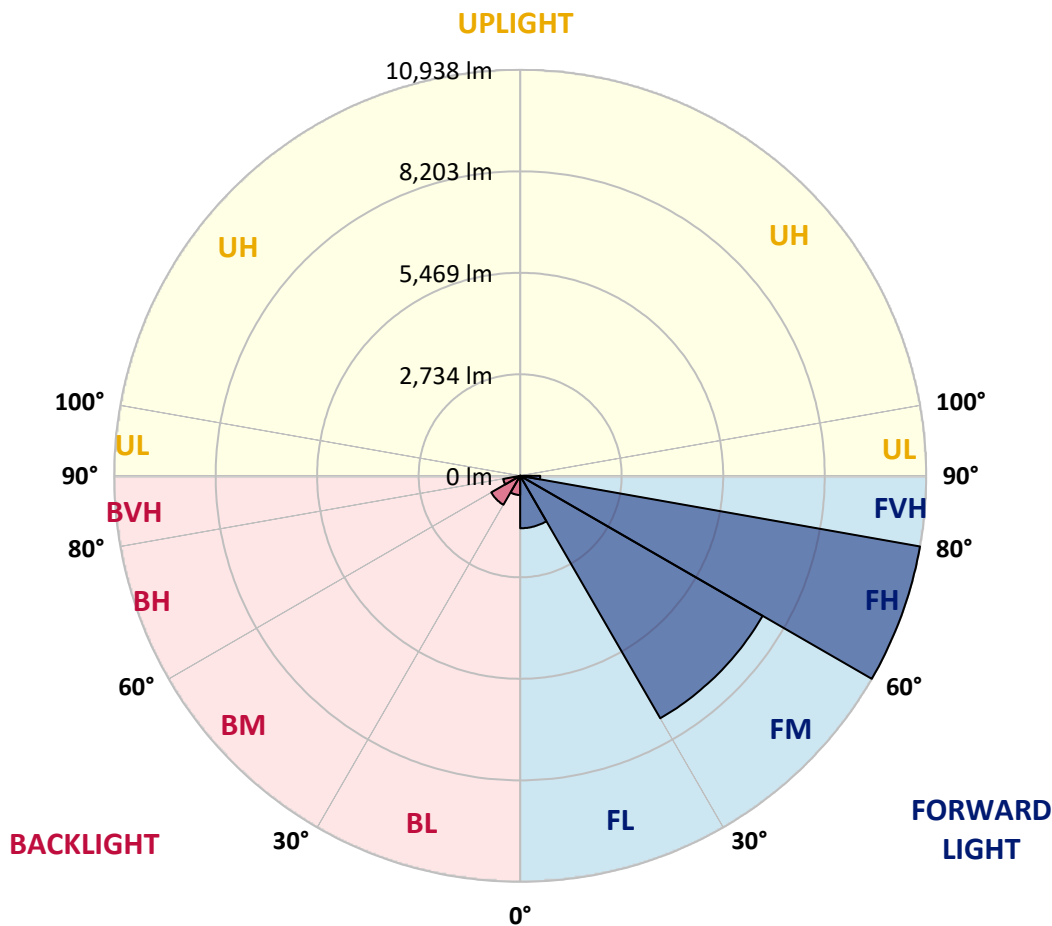
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1413.1	6.3			
FM (30°-60°)	7542.3	33.8			
FH (60°-80°)	10937.9	49.0			G4/12000
FVH (80°-90°)	538.8	2.4			G4/750
BL (0°-30°)	517.0	2.3	B2/1000		
BM (30°-60°)	899.5	4.0	B1/1000		
BH (60°-80°)	463.9	2.1	B1/500		G1/500
BVH (80°-90°)	1.4	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°	44°	45°	55°	65°	75°	85°
0°	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8
2.5°	2647.0	2642.9	2630.5	2609.9	2589.3	2568.8	2564.6	2531.7	2494.7	2465.8	2441.1
5°	2881.6	2877.5	2856.9	2811.6	2766.4	2712.8	2708.7	2630.5	2560.5	2482.3	2416.4
7.5°	3124.5	3116.3	3079.2	3009.2	2931.0	2848.7	2840.5	2725.2	2622.3	2519.4	2424.7
10°	3313.9	3305.6	3252.1	3169.8	3062.8	2959.8	2947.5	2828.1	2725.2	2593.5	2465.8
12.5°	3499.1	3482.6	3412.7	3322.1	3190.4	3091.6	3079.2	2955.7	2832.2	2696.4	2539.9
15°	3672.0	3651.4	3585.6	3470.3	3330.3	3235.6	3227.4	3095.7	2968.1	2811.6	2638.7
17.5°	3791.4	3783.2	3704.9	3577.3	3441.5	3363.3	3355.0	3219.2	3091.6	2926.9	2741.7
20°	3853.1	3853.1	3779.0	3639.1	3515.6	3462.1	3449.7	3322.1	3198.6	3042.2	2848.7
22.5°	3865.5	3877.8	3820.2	3667.9	3577.3	3532.0	3523.8	3412.7	3293.3	3149.2	2968.1
25°	3890.2	3890.2	3861.4	3696.7	3630.8	3618.5	3614.4	3515.6	3408.5	3264.5	3087.5
27.5°	3919.0	3919.0	3898.4	3737.9	3713.2	3709.1	3704.9	3659.7	3573.2	3404.4	3227.4
30°	3993.1	3997.2	3980.8	3820.2	3803.7	3849.0	3857.3	3832.6	3725.5	3515.6	3371.5
32.5°	4178.3	4141.3	4096.0	3877.8	3906.7	3964.3	3968.4	3919.0	3803.7	3635.0	3544.4
35°	4643.5	4425.3	4219.5	3927.2	3939.6	3997.2	4005.5	4001.3	3931.4	3787.3	3742.0
37.5°	5075.8	4767.0	4474.7	4042.5	4001.3	4063.1	4079.6	4149.5	4096.0	3997.2	4009.6
40°	5326.9	5207.5	5001.7	4359.5	4124.8	4219.5	4236.0	4343.0	4322.4	4281.3	4359.5
42.5°	6100.8	6109.0	5886.7	4832.9	4351.2	4503.6	4524.1	4610.6	4639.4	4660.0	4849.4
45°	6998.2	7027.0	6973.5	5685.0	4779.4	4828.8	4857.6	4972.9	5079.9	5211.6	5557.4
47.5°	8076.8	8052.1	7854.5	6726.5	5524.5	5248.7	5269.2	5491.5	5676.8	5965.0	6458.9
50°	9031.8	9093.6	8719.0	7698.0	6574.2	5911.4	5890.9	6109.0	6442.5	6845.9	7467.5
52.5°	9995.1	9904.5	9398.2	8661.3	7817.4	6813.0	6751.2	6870.6	7339.9	7817.4	8455.5
55°	10250.3	10258.6	10085.7	9715.2	8854.8	7908.0	7805.1	7796.8	8381.4	8706.6	9492.9
57.5°	10752.6	10773.1	10814.3	10888.4	10480.9	9003.0	8896.0	8780.7	9348.8	9538.2	10534.4
60°	11263.0	11287.7	11538.8	11938.1	11666.4	10184.5	10069.2	9797.5	10114.5	10369.7	11629.4
62.5°	11197.2	11370.1	12098.7	12893.2	12860.3	11481.2	11337.1	10682.6	10884.3	11106.6	12633.8
65°	10110.4	10295.6	11934.0	13156.7	14058.2	12761.5	12526.8	11596.5	11608.8	11876.4	13601.2
67.5°	9138.9	9340.6	10904.9	13045.5	14848.6	13910.0	13667.1	12514.5	12321.0	12765.6	14119.9
70°	8579.0	8780.7	10085.7	12699.7	15070.9	15182.0	14972.1	13564.2	13169.0	13576.5	13539.5
72.5°	6714.2	7031.2	9040.1	12041.1	15309.6	16544.6	16380.0	14893.9	13889.4	12728.5	10308.0
75°	2675.8	2968.1	5643.9	9690.5	15009.1	17717.8	17590.2	15490.8	12856.1	9089.5	5277.5
77.5°	806.9	864.5	1568.4	4791.7	11003.7	15708.9	15667.8	13024.9	9097.7	4219.5	1440.8
80°	267.6	296.4	481.6	1321.4	5022.3	9814.0	9999.2	8299.1	4133.1	967.4	292.3
82.5°	111.1	123.5	242.9	531.0	1778.4	4227.7	4166.0	3717.3	1440.8	601.0	107.0
85°	28.8	37.0	111.1	304.6	650.4	1457.3	1531.4	1247.3	815.1	498.1	32.9
87.5°	0.0	0.0	53.5	123.5	292.3	440.5	461.1	378.7	461.1	374.6	16.5
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°	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8
2.5°	2420.6	2400.0	2362.9	2338.2	2305.3	2297.1	2280.6	2260.0	2255.9	2235.3	2239.4
5°	2379.4	2346.5	2280.6	2235.3	2181.8	2165.3	2136.5	2115.9	2099.5	2070.7	2074.8
7.5°	2371.2	2321.8	2231.2	2144.7	2058.3	1996.6	1910.1	1840.1	1782.5	1720.7	1733.1
10°	2400.0	2338.2	2210.6	2091.2	1934.8	1737.2	1510.8	1362.6	1288.5	1214.4	1222.6
12.5°	2457.6	2383.5	2218.8	2037.7	1720.7	1383.2	1070.3	868.6	815.1	782.2	786.3
15°	2544.1	2453.5	2243.5	1934.8	1432.6	1000.3	712.2	625.7	646.3	658.7	658.7
17.5°	2634.6	2531.7	2264.1	1749.6	1107.4	699.8	580.4	572.2	601.0	629.8	629.8
20°	2745.8	2614.0	2268.2	1514.9	798.6	568.1	547.5	547.5	568.1	601.0	601.0
22.5°	2852.8	2704.6	2231.2	1247.3	609.3	526.9	526.9	526.9	539.3	572.2	576.3
25°	2980.4	2815.8	2153.0	963.3	522.8	502.2	502.2	506.3	514.6	543.4	547.5
27.5°	3116.3	2931.0	2021.3	703.9	477.5	473.4	477.5	481.6	485.8	514.6	522.8
30°	3272.7	3058.6	1852.5	526.9	436.4	436.4	448.7	456.9	456.9	481.6	489.9
32.5°	3453.8	3227.4	1650.8	436.4	395.2	391.1	411.7	424.0	424.0	444.6	452.8
35°	3680.2	3400.3	1407.9	387.0	362.3	354.0	362.3	382.8	391.1	407.5	411.7
37.5°	3980.8	3606.1	1148.5	358.1	337.6	321.1	321.1	325.2	341.7	358.1	362.3
40°	4363.6	3832.6	893.3	337.6	312.9	296.4	284.0	279.9	275.8	288.2	296.4
42.5°	4845.2	4087.8	666.9	317.0	292.3	267.6	251.1	234.6	214.1	209.9	214.1
45°	5462.7	4400.6	494.0	300.5	279.9	242.9	214.1	185.2	148.2	135.8	140.0
47.5°	6191.4	4725.9	387.0	284.0	271.7	214.1	177.0	127.6	90.6	82.3	86.4
50°	6965.3	5038.7	329.3	263.5	255.2	185.2	127.6	78.2	53.5	53.5	57.6
52.5°	7623.9	5215.7	300.5	247.0	230.5	152.3	82.3	45.3	32.9	32.9	37.0
55°	8262.0	5310.4	279.9	230.5	197.6	107.0	45.3	28.8	20.6	20.6	20.6
57.5°	8920.7	5351.6	255.2	209.9	156.4	65.9	24.7	16.5	12.3	12.3	12.3
60°	9505.2	5273.4	218.2	172.9	102.9	32.9	12.3	12.3	8.2	4.1	4.1
62.5°	9995.1	5125.2	152.3	123.5	61.7	16.5	8.2	4.1	0.0	0.0	0.0
65°	10295.6	4886.4	98.8	82.3	37.0	12.3	4.1	0.0	0.0	0.0	0.0
67.5°	10209.2	4437.7	61.7	53.5	16.5	8.2	4.1	0.0	0.0	0.0	0.0
70°	9213.0	3639.1	45.3	32.9	12.3	4.1	0.0	0.0	0.0	0.0	0.0
72.5°	6640.1	2461.7	32.9	20.6	8.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	3194.5	876.8	20.6	16.5	4.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	782.2	193.5	12.3	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	172.9	37.0	8.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	57.6	16.5	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.6	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.3	4.1	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)