

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: P258057

Luminaire Tested: **ARCH-L-AF72-210-D-U-T2U-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P258057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-3)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-210-D-U-T2U-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 900mA 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: 16819.4 lumens
Efficiency: N/A
Efficacy: 79.7 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

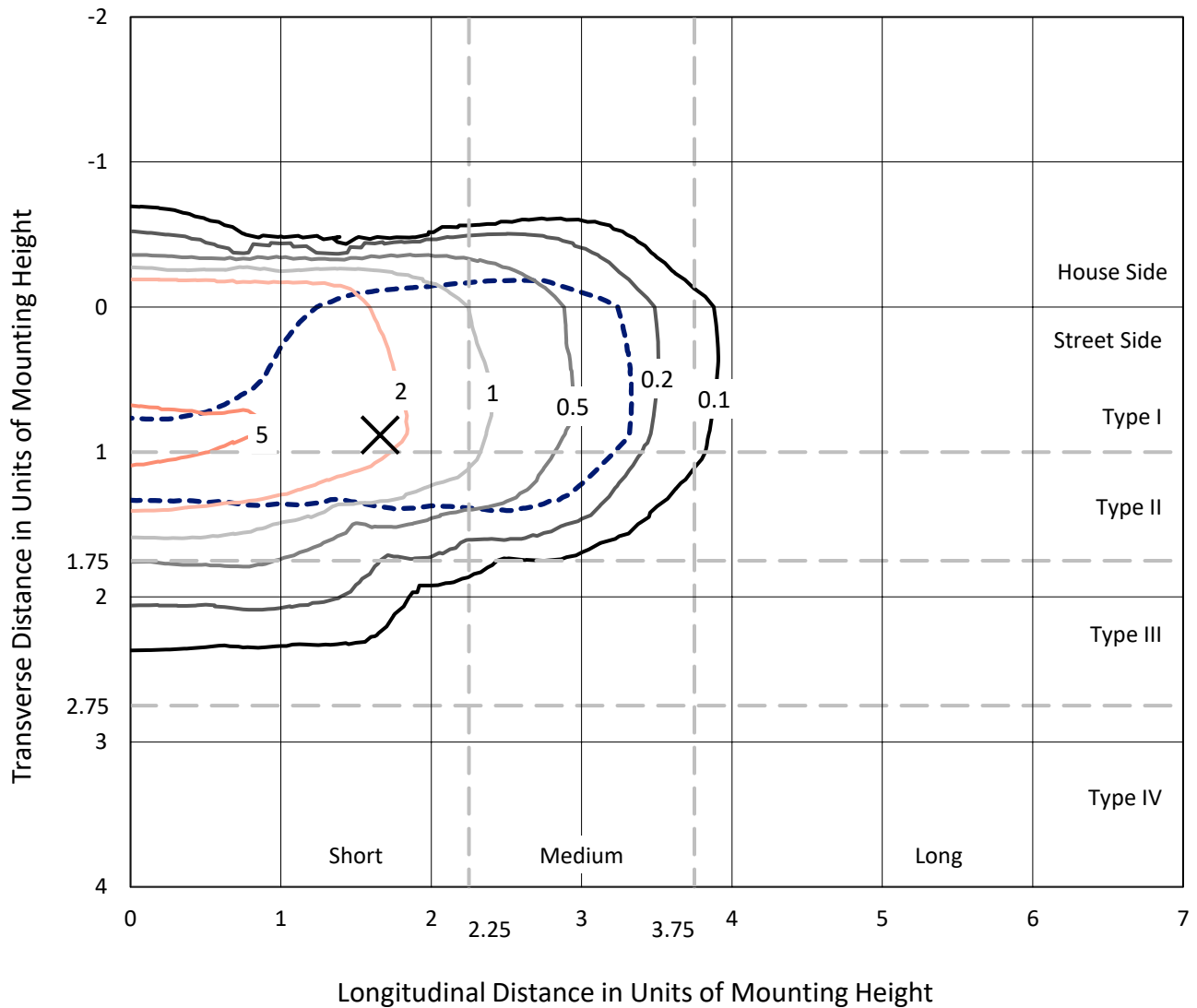
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P258057
 CATALOG NUMBER: ARCH-L-AF72-210-D-U-T2U-7030-HSS

Iso-Footcandle Lines of Horizontal Illumination

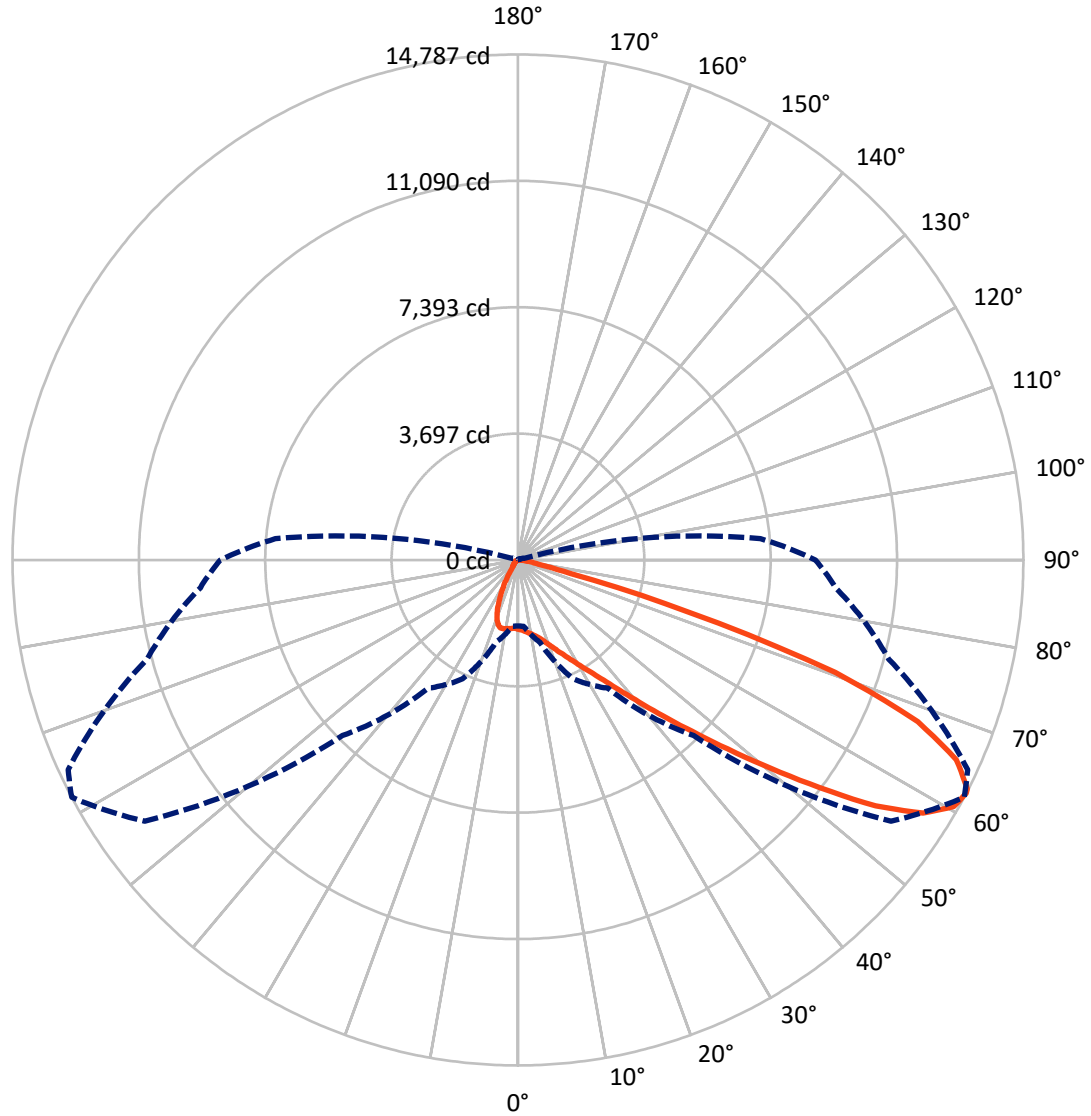
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

REPORT NUMBER: P258057
CATALOG NUMBER: ARCH-L-AF72-210-D-U-T2U-7030-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 62-Deg Vertical

REPORT NUMBER: P258057

CATALOG NUMBER: ARCH-L-AF72-210-D-U-T2U-7030-HSS

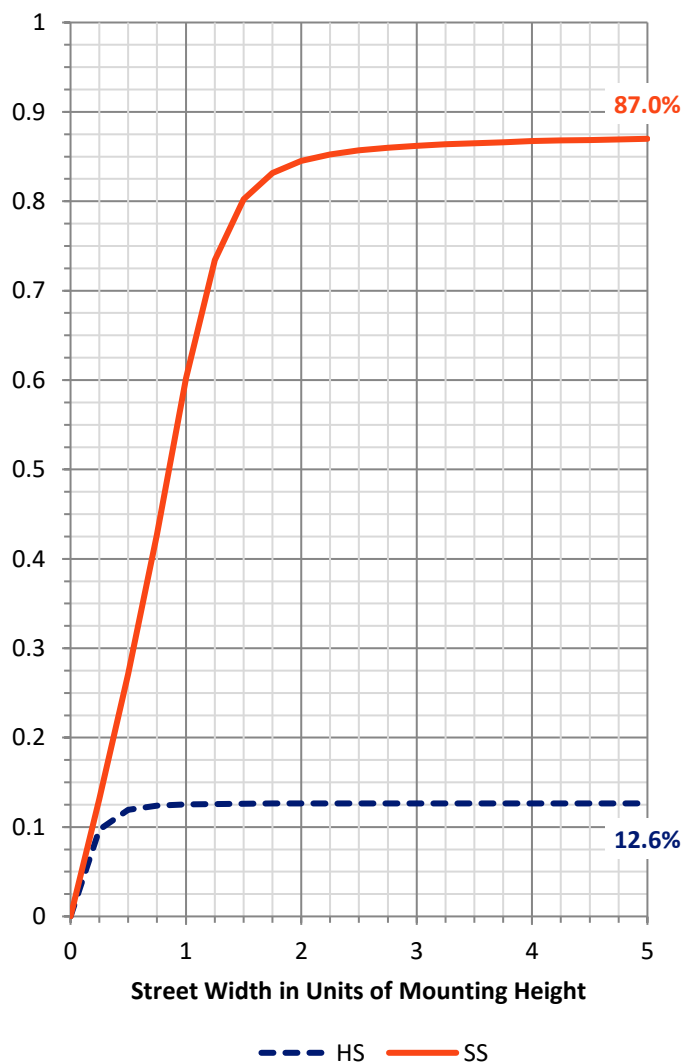
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2150.6	0.0	2150.6
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	14668.8	0.0	14668.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	16819.4	0.0	16819.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.0	1.2
10°-20°	544.5	3.2
20°-30°	914.5	5.4
30°-40°	1752.9	10.4
40°-50°	3580.4	21.3
50°-60°	4738.1	28.2
60°-70°	3680.7	21.9
70°-80°	1328.6	7.9
80°-90°	84.7	0.5
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°	16819.4	100.0
0°-180°	16819.4	100.0

Coefficient of Utilization



REPORT NUMBER: P258057

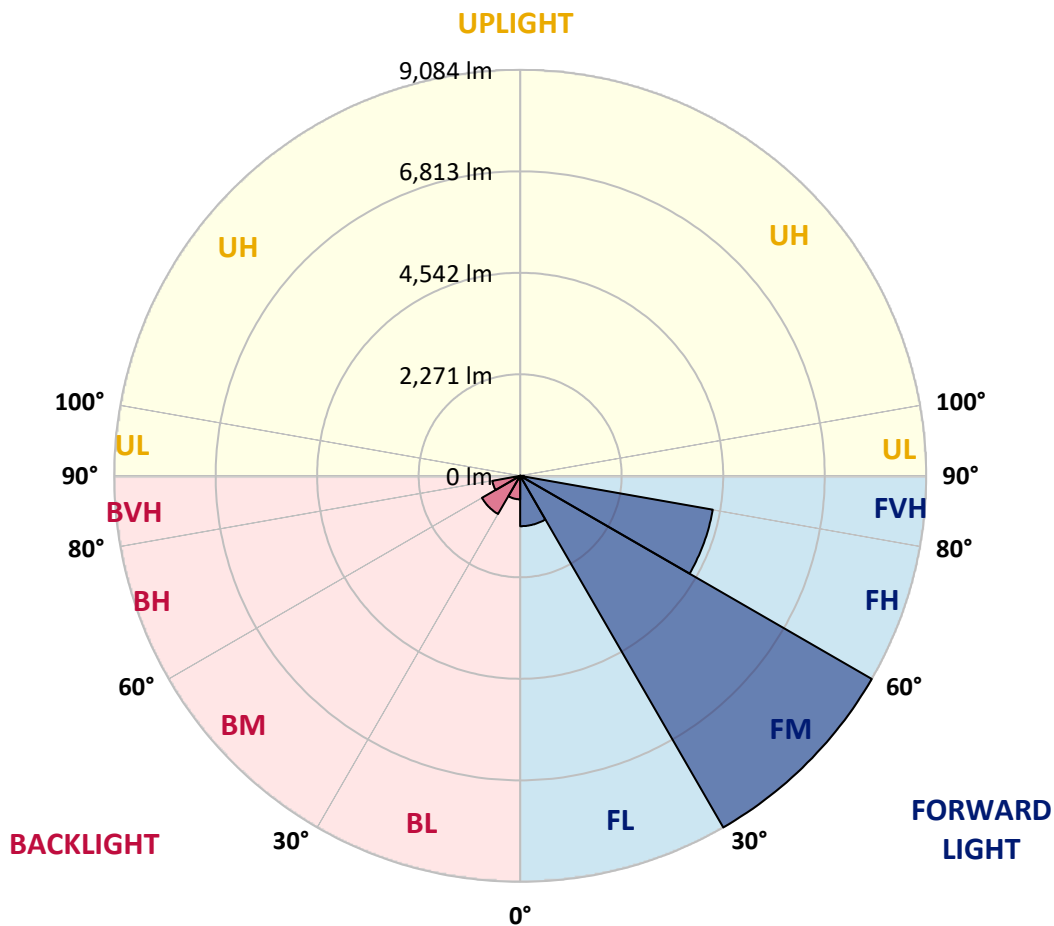
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1127.6	6.7			
FM (30°-60°)	9084.2	54.0			
FH (60°-80°)	4376.0	26.0			G2/5000
FVH (80°-90°)	81.0	0.5			G1/100
BL (0°-30°)	526.3	3.1	B2/1000		
BM (30°-60°)	987.3	5.9	B1/1000		
BH (60°-80°)	633.3	3.8	B2/1000		G2/1000
BVH (80°-90°)	3.7	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





REPORT NUMBER: P258057

CATALOG NUMBER: ARCH-L-AF72-210-D-U-T2U-7030-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	2026.1	2026.1	2026.1	2026.1	2026.1	2026.1	2026.1	2026.1	2026.1	2026.1	2026.1
2.5°	2079.9	2075.7	2071.5	2067.5	2067.5	2063.4	2059.2	2050.9	2042.6	2034.4	2030.2
5°	2117.1	2113.0	2108.8	2113.0	2108.8	2108.8	2104.7	2096.3	2088.2	2075.7	2063.4
7.5°	2146.1	2141.9	2137.7	2141.9	2146.1	2150.1	2154.3	2146.1	2141.9	2125.3	2113.0
10°	2183.2	2179.0	2175.1	2183.2	2183.2	2203.9	2208.0	2203.9	2199.8	2187.4	2166.7
12.5°	2237.0	2241.1	2241.1	2249.4	2257.7	2282.4	2290.7	2278.4	2278.4	2261.7	2237.0
15°	2336.2	2336.2	2336.2	2344.4	2348.6	2381.8	2389.9	2377.6	2385.9	2356.9	2332.1
17.5°	2431.3	2435.5	2443.7	2460.3	2460.3	2489.3	2505.8	2505.8	2522.2	2485.1	2452.0
20°	2526.4	2530.6	2543.0	2580.1	2580.1	2617.5	2646.4	2658.8	2675.3	2638.1	2580.1
22.5°	2629.8	2629.8	2650.5	2708.4	2696.0	2770.4	2824.2	2844.8	2861.4	2811.8	2720.8
25°	2786.9	2770.4	2786.9	2840.7	2832.4	2935.8	3035.0	3055.7	3076.4	3018.5	2882.0
27.5°	3084.6	3059.8	3002.0	3006.0	3006.0	3126.0	3266.7	3295.6	3308.0	3258.3	3088.8
30°	3680.1	3680.1	3465.0	3320.4	3225.3	3332.7	3531.3	3580.9	3597.4	3522.9	3299.6
32.5°	4718.0	4718.0	4320.9	3953.0	3593.2	3593.2	3820.7	3911.6	3928.2	3841.3	3580.9
35°	6041.2	6032.9	5437.4	4932.9	4230.0	3965.3	4159.7	4312.7	4362.4	4246.6	3944.7
37.5°	7447.0	7393.2	6752.3	6173.4	5210.0	4560.8	4618.7	4821.3	4866.9	4771.7	4416.2
40°	8588.3	8526.3	8009.4	7525.6	6475.2	5511.8	5280.3	5466.3	5520.1	5387.8	4978.4
42.5°	9621.9	9469.0	9113.5	8766.1	7930.8	7157.6	6161.0	6235.4	6293.4	6152.7	5611.1
45°	10370.4	10134.7	9952.8	9845.3	9402.9	8964.5	7302.3	7153.4	7174.1	7000.5	6301.6
47.5°	10391.1	10225.7	10242.2	10523.5	10705.3	10688.8	8786.7	8257.5	8178.9	7889.4	7037.6
50°	9398.7	9493.7	9795.6	10597.8	11581.9	12177.4	10552.4	9564.1	9328.3	8807.4	7769.5
52.5°	7744.8	7893.6	8460.1	9812.1	11710.1	13157.3	12384.1	11056.8	10635.0	9717.1	8331.9
55°	6066.0	6074.2	6669.6	8046.5	10854.2	13335.1	13847.8	12698.3	12053.3	10407.6	8704.0
57.5°	4172.2	4399.6	5156.3	6082.5	8923.2	12450.2	14397.8	13971.8	13140.8	10833.5	8964.5
60°	2733.2	2745.5	3626.4	4697.3	6074.2	10130.5	14062.9	14645.8	14021.6	11085.8	9142.3
62°	1926.9	1947.5	2493.4	3837.1	4577.3	7261.0	13322.7	14786.5	14517.8	11234.6	9328.3
62.5°	1786.3	1802.8	2261.7	3622.2	4300.3	6512.5	13058.1	14753.4	14592.1	11284.2	9394.5
65°	1310.8	1310.8	1480.4	2489.3	3150.8	3518.8	11065.0	14096.0	14492.9	11681.1	9642.6
67.5°	1013.1	1021.3	1079.3	1534.1	2377.6	2133.7	7062.4	12615.6	13459.2	12268.2	9783.2
70°	872.4	868.3	909.7	1017.2	1716.0	1418.3	3109.4	9845.3	11271.8	12119.5	9655.0
72.5°	645.0	649.2	744.3	893.2	1195.0	922.0	1405.8	5226.5	7310.5	9485.6	8273.9
75°	413.5	417.6	525.1	703.0	860.1	603.6	810.4	1558.9	2993.7	5259.6	5061.1
77.5°	277.1	285.2	343.2	492.1	752.6	376.3	508.6	653.4	901.4	1972.3	1815.3
80°	186.1	186.1	219.2	330.8	475.5	314.2	272.9	434.2	467.2	612.0	306.0
82.5°	124.0	124.0	144.8	219.2	310.1	281.2	165.4	235.7	272.9	306.0	107.5
85°	74.4	74.4	99.2	136.5	202.5	157.2	107.5	132.3	140.6	194.4	57.9
87.5°	45.5	41.3	66.2	95.0	107.5	95.0	70.3	70.3	74.4	107.5	29.0
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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CATALOG NUMBER: ARCH-L-AF72-210-D-U-T2U-7030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2026.1	2026.1	2026.1	2026.1	2026.1	2026.1	2026.1	2026.1	2026.1	2026.1	2026.1
2.5°	2022.0	2017.8	2013.7	2005.5	1993.0	1984.8	1976.5	1968.2	1960.0	1960.0	1972.3
5°	2059.2	2046.8	2030.2	2013.7	1988.8	1972.3	1960.0	1943.4	1935.1	1935.1	1939.3
7.5°	2104.7	2092.4	2063.4	2034.4	1997.2	1968.2	1939.3	1902.1	1873.1	1860.6	1873.1
10°	2154.3	2137.7	2096.3	2050.9	2009.6	1935.1	1840.0	1724.2	1625.0	1579.6	1600.2
12.5°	2216.4	2195.7	2146.1	2084.0	1988.8	1806.9	1571.2	1302.5	1133.0	1054.4	1071.0
15°	2307.3	2278.4	2208.0	2113.0	1902.1	1509.2	1124.8	814.5	657.4	591.3	599.7
17.5°	2414.8	2377.6	2282.4	2104.7	1678.8	1087.4	669.9	475.5	409.4	392.8	392.8
20°	2530.6	2481.0	2356.9	2042.6	1339.7	682.3	417.6	363.9	339.0	326.6	326.6
22.5°	2650.5	2584.3	2418.9	1898.0	955.2	425.9	343.2	306.0	277.1	264.6	264.6
25°	2795.2	2708.4	2481.0	1645.7	607.8	343.2	293.6	256.3	227.4	210.9	215.0
27.5°	2964.8	2853.1	2534.7	1331.5	392.8	297.7	243.9	206.7	181.9	173.6	173.6
30°	3142.6	3010.2	2547.2	996.6	318.4	256.3	202.5	169.6	153.0	144.8	144.8
32.5°	3386.5	3212.9	2509.9	661.6	268.8	215.0	169.6	140.6	128.2	124.0	124.0
35°	3709.1	3477.5	2423.1	409.4	227.4	177.8	140.6	124.0	111.7	107.5	107.5
37.5°	4118.4	3845.5	2270.1	281.2	194.4	144.8	119.9	107.5	99.2	95.0	95.0
40°	4664.2	4292.0	2071.5	243.9	165.4	124.0	103.4	95.0	86.9	86.9	86.9
42.5°	5243.2	4833.7	1815.3	215.0	140.6	107.5	91.0	82.7	78.5	74.4	74.4
45°	5875.8	5387.8	1496.9	190.2	119.9	95.0	82.7	70.3	66.2	66.2	66.2
47.5°	6504.2	5958.5	1149.5	165.4	103.4	82.7	70.3	62.1	57.9	53.7	53.7
50°	7149.3	6475.2	843.5	144.8	91.0	74.4	62.1	53.7	45.5	41.3	41.3
52.5°	7616.6	6785.4	616.1	124.0	78.5	62.1	49.6	41.3	33.1	29.0	29.0
55°	7959.7	6975.6	450.7	103.4	70.3	53.7	41.3	33.1	24.8	24.8	20.6
57.5°	8228.6	7066.6	339.0	91.0	62.1	45.5	33.1	24.8	20.6	16.5	16.5
60°	8435.3	7070.7	252.3	74.4	53.7	37.2	24.8	16.5	12.4	12.4	12.4
62°	8708.2	7124.5	206.7	62.1	49.6	33.1	20.6	12.4	8.3	4.2	4.2
62.5°	8786.7	7145.1	198.6	62.1	45.5	29.0	16.5	12.4	8.3	4.2	4.2
65°	9150.6	7182.3	153.0	49.6	37.2	24.8	12.4	8.3	0.0	0.0	0.0
67.5°	9481.4	7124.5	111.7	37.2	29.0	16.5	12.4	4.2	0.0	0.0	0.0
70°	9448.3	6727.5	78.5	24.8	20.6	12.4	8.3	0.0	0.0	0.0	0.0
72.5°	7786.1	5036.3	53.7	20.6	12.4	8.3	4.2	0.0	0.0	0.0	0.0
75°	4701.4	2203.9	37.2	12.4	12.4	8.3	4.2	0.0	0.0	0.0	0.0
77.5°	1542.3	798.0	24.8	8.3	8.3	4.2	4.2	0.0	0.0	0.0	0.0
80°	252.3	132.3	12.4	8.3	8.3	4.2	4.2	0.0	0.0	0.0	0.0
82.5°	78.5	33.1	8.3	8.3	4.2	4.2	0.0	0.0	0.0	0.0	0.0
85°	29.0	12.4	8.3	8.3	4.2	4.2	0.0	0.0	0.0	0.0	0.0
87.5°	12.4	8.3	8.3	8.3	4.2	4.2	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)