

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: P237479

Luminaire Tested: **ARCH-L-AF72-260-D-U-T4W-7050-HSS**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P237479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29625)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-260-D-U-T4W-7050-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1110mA 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: 20841 lumens
Efficiency: N/A
Efficacy: 79.9 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

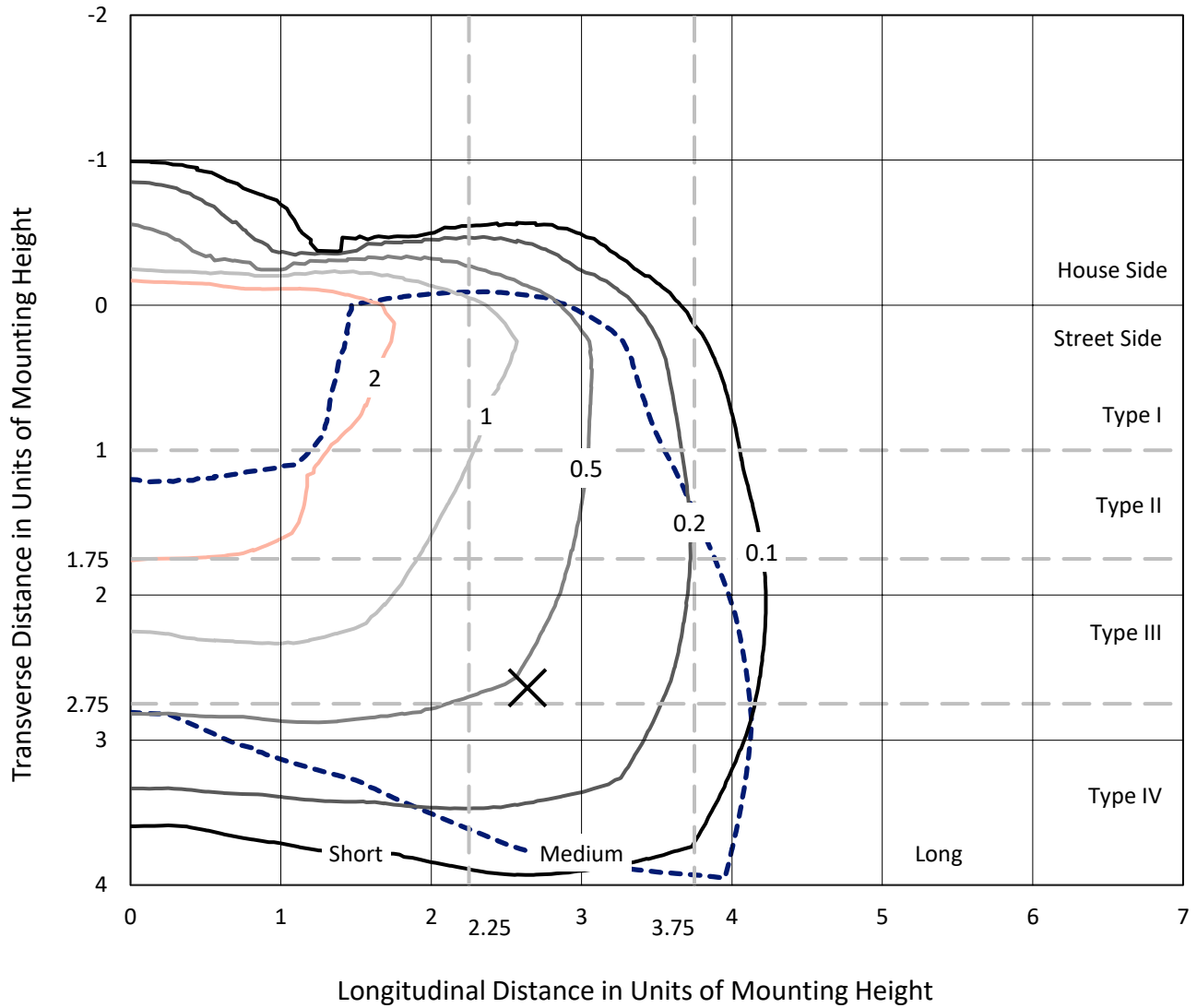
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

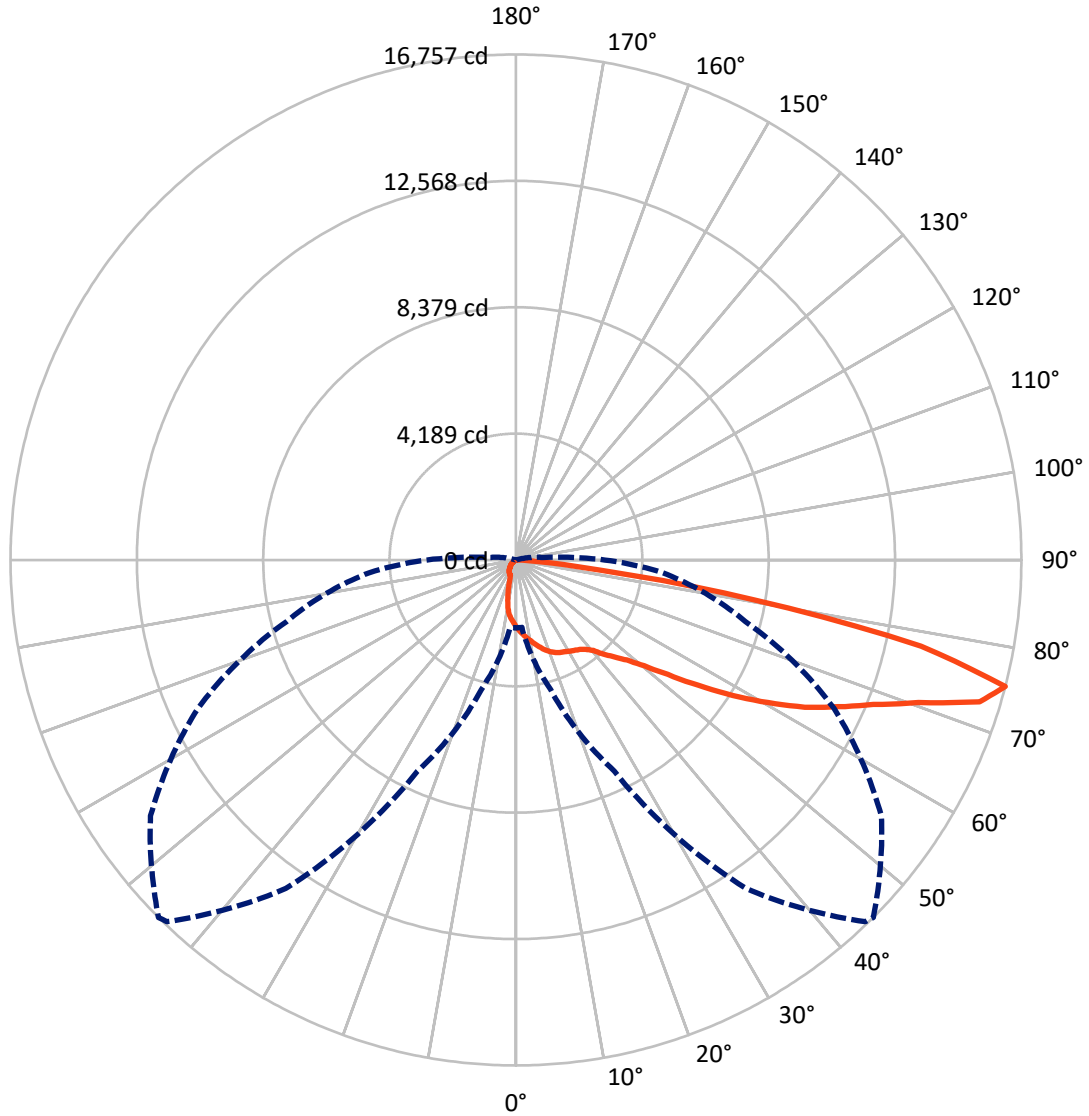
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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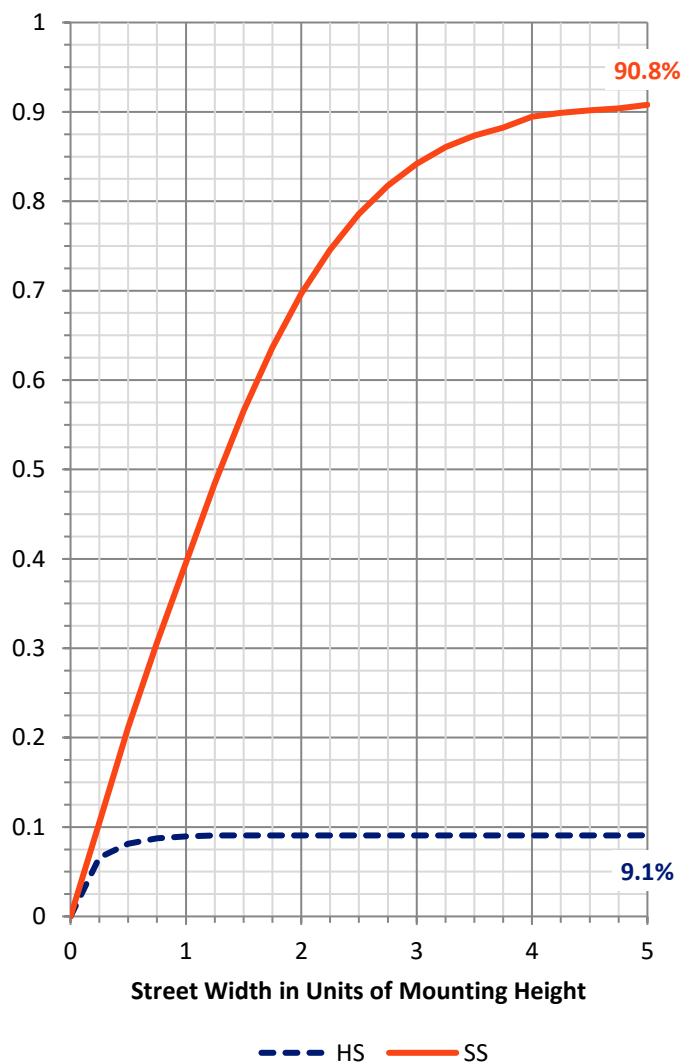
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1906.3	0.0	1906.3
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	18934.7	0.0	18934.7
	% Fixture	90.9	0.0	90.9
Total	Lumens	20841.0	0.0	20841.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.4	1.0
10°-20°	596.0	2.9
20°-30°	987.0	4.7
30°-40°	1428.5	6.9
40°-50°	2339.1	11.2
50°-60°	4167.8	20.0
60°-70°	6127.2	29.4
70°-80°	4622.4	22.2
80°-90°	362.7	1.7
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°	20841.0	100.0
0°-180°	20841.0	100.0

Coefficient of Utilization



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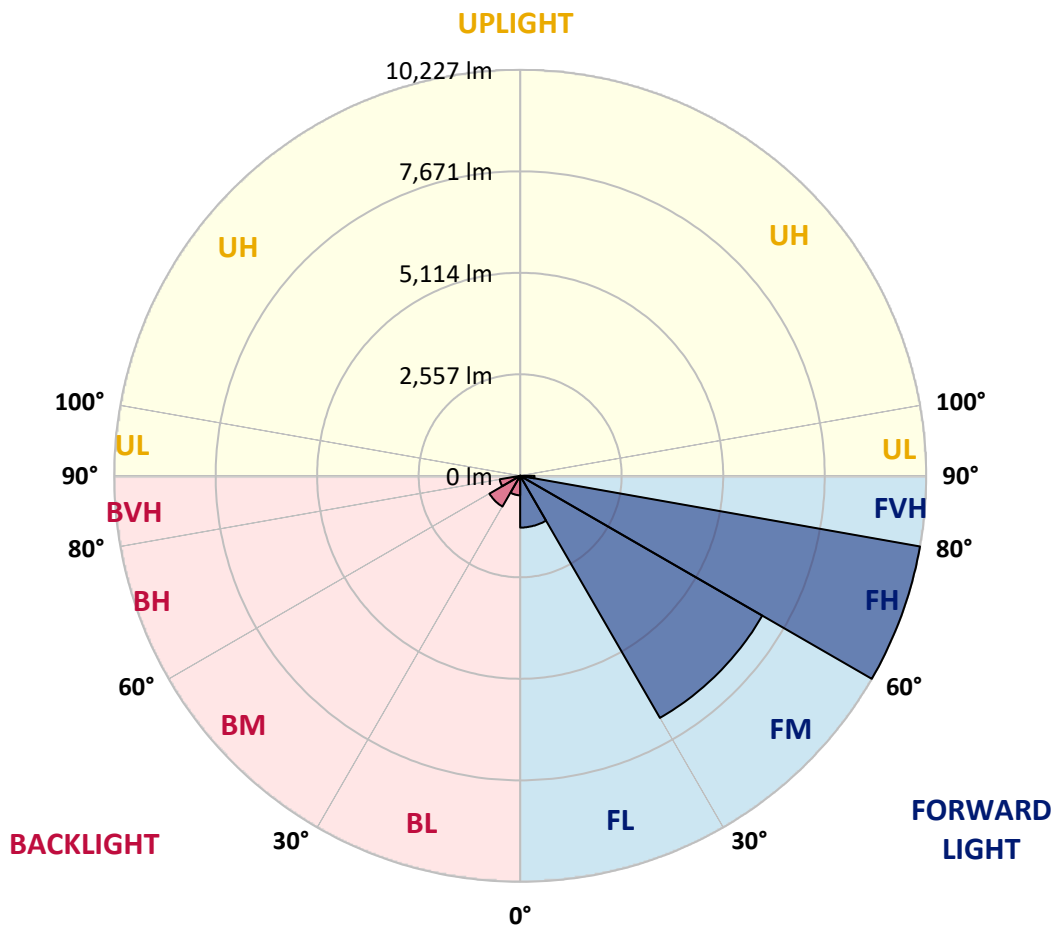
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1303.6	6.3			
FM (30°-60°)	7042.1	33.8			
FH (60°-80°)	10227.4	49.1			G4/12000
FVH (80°-90°)	361.6	1.7			G3/500
BL (0°-30°)	489.9	2.4	B1/500		
BM (30°-60°)	893.3	4.3	B1/1000		
BH (60°-80°)	522.1	2.5	B2/1000		G2/1000
BVH (80°-90°)	1.0	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°	2229.1	2229.1	2229.1	2229.1	2229.1	2229.1	2229.1	2229.1	2229.1	2229.1	2229.1
2.5°	2421.4	2421.4	2416.5	2411.5	2386.9	2362.2	2357.3	2342.5	2298.1	2268.5	2238.9
5°	2623.6	2628.5	2618.6	2594.0	2539.7	2485.5	2480.6	2441.1	2357.3	2298.1	2234.0
7.5°	2815.9	2825.8	2801.1	2756.7	2692.6	2613.7	2608.8	2534.8	2426.3	2342.5	2248.8
10°	2978.7	2978.7	2944.1	2889.9	2820.8	2737.0	2727.1	2643.3	2520.0	2416.5	2293.2
12.5°	3156.2	3151.3	3101.9	3028.0	2949.1	2870.2	2865.2	2761.7	2643.3	2510.2	2357.3
15°	3318.9	3309.1	3245.0	3175.9	3092.1	3008.2	3003.3	2899.7	2776.5	2618.6	2451.0
17.5°	3407.7	3402.8	3343.6	3274.5	3205.5	3141.4	3136.5	3028.0	2894.8	2732.1	2544.7
20°	3422.5	3427.4	3378.1	3318.9	3279.5	3245.0	3245.0	3146.3	3003.3	2830.7	2643.3
22.5°	3427.4	3442.2	3407.7	3328.8	3318.9	3323.9	3333.7	3254.8	3106.9	2944.1	2746.9
25°	3461.9	3481.7	3457.0	3363.3	3353.4	3388.0	3397.8	3363.3	3230.2	3067.4	2865.2
27.5°	3531.0	3550.7	3531.0	3412.6	3397.8	3432.4	3442.2	3461.9	3363.3	3185.8	2988.5
30°	3669.1	3674.0	3629.6	3481.7	3452.1	3496.5	3511.3	3565.5	3486.6	3299.2	3106.9
32.5°	3910.7	3861.4	3728.2	3531.0	3506.3	3555.6	3570.4	3629.6	3600.0	3407.7	3230.2
35°	4403.9	4147.4	3841.7	3600.0	3575.4	3624.7	3644.4	3728.2	3743.0	3560.6	3383.0
37.5°	4398.9	4167.2	4108.0	3733.2	3698.7	3733.2	3757.8	3861.4	3920.6	3762.8	3605.0
40°	4709.6	4611.0	4611.0	3984.7	3871.3	3920.6	3945.2	4048.8	4152.4	4029.1	3866.3
42.5°	5686.1	5622.0	5552.9	4468.0	4112.9	4251.0	4265.8	4329.9	4453.2	4413.7	4221.4
45°	6775.9	6716.8	6450.5	5286.6	4527.2	4551.8	4586.3	4689.9	4867.4	4941.4	4714.6
47.5°	7629.1	7569.9	7343.1	6272.9	5173.2	4956.2	4956.2	5158.4	5434.6	5622.0	5405.0
50°	8314.6	8245.5	8107.5	7323.3	6233.5	5538.1	5508.5	5745.2	6154.6	6445.5	6297.6
52.5°	8980.3	8778.1	8694.3	8408.3	7431.8	6381.4	6302.5	6470.2	7037.3	7397.3	7274.0
55°	9424.2	9394.6	9305.8	9404.5	8689.4	7407.2	7338.1	7372.7	8082.8	8324.4	8171.6
57.5°	9838.4	9833.5	10030.8	10489.4	10060.3	8580.9	8472.4	8418.1	9093.8	9034.6	9167.7
60°	10351.3	10262.5	10721.2	11377.1	11317.9	9725.0	9601.7	9493.2	9868.0	9700.3	10361.2
62.5°	10376.0	10351.3	11283.4	12225.3	12565.6	10888.8	10745.8	10356.2	10543.6	10351.3	11500.4
65°	9434.0	9557.3	11520.1	12674.1	13611.1	11909.7	11737.1	11130.5	11145.3	11017.1	12841.7
67.5°	9222.0	9286.1	10869.1	13157.4	14365.6	12940.4	12777.6	12023.1	11845.6	11855.4	13635.7
70°	8694.3	8792.9	10060.3	13122.8	14962.3	14316.3	14153.5	13334.9	12905.9	12427.5	13024.2
72.5°	6642.8	6810.5	8477.3	11505.3	14799.6	16116.3	16071.9	14996.8	13330.0	11411.6	9853.2
75°	2248.8	2243.9	4453.2	7727.7	13295.4	16668.6	16757.4	14789.7	11628.6	7870.7	4892.1
77.5°	483.3	488.2	917.3	3131.5	8832.4	13384.2	13724.5	11155.2	7500.9	3506.3	1119.5
80°	236.7	241.6	379.7	828.5	3531.0	7505.8	8038.4	5735.4	2771.5	700.3	187.4
82.5°	118.4	123.3	197.3	438.9	1306.9	2668.0	2850.4	2110.7	794.0	394.5	93.7
85°	44.4	44.4	98.6	261.4	596.7	626.3	769.3	611.5	478.4	320.6	24.7
87.5°	9.9	9.9	54.2	128.2	266.3	197.3	197.3	187.4	291.0	217.0	9.9
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°	2229.1	2229.1	2229.1	2229.1	2229.1	2229.1	2229.1	2229.1	2229.1	2229.1	2229.1
2.5°	2224.1	2204.4	2169.9	2135.4	2110.7	2081.1	2066.3	2051.5	2046.6	2041.7	2051.5
5°	2199.5	2169.9	2105.8	2051.5	2002.2	1962.8	1933.2	1903.6	1888.8	1878.9	1883.8
7.5°	2199.5	2155.1	2061.4	1977.5	1898.6	1814.8	1731.0	1666.9	1617.5	1588.0	1592.9
10°	2224.1	2164.9	2041.7	1928.2	1780.3	1602.8	1420.3	1282.2	1188.5	1134.3	1134.3
12.5°	2278.4	2199.5	2046.6	1869.1	1617.5	1306.9	1030.7	863.0	794.0	754.5	759.5
15°	2352.3	2258.6	2071.2	1790.2	1390.7	971.5	720.0	611.5	611.5	621.4	626.3
17.5°	2436.2	2332.6	2091.0	1671.8	1099.7	695.3	567.1	557.3	572.1	596.7	596.7
20°	2520.0	2406.6	2100.8	1484.4	823.6	552.3	537.5	537.5	547.4	572.1	577.0
22.5°	2623.6	2500.3	2091.0	1252.6	616.4	522.7	517.8	517.8	517.8	547.4	547.4
25°	2732.1	2608.8	2051.5	1006.0	522.7	503.0	498.1	493.2	493.2	517.8	522.7
27.5°	2855.4	2722.2	1957.8	769.3	493.2	483.3	478.4	468.5	468.5	488.2	488.2
30°	2978.7	2850.4	1814.8	581.9	468.5	463.6	453.7	443.8	434.0	453.7	453.7
32.5°	3111.8	2983.6	1627.4	463.6	434.0	434.0	429.0	414.2	404.4	414.2	419.2
35°	3289.3	3136.5	1415.4	404.4	389.6	389.6	389.6	384.7	364.9	374.8	374.8
37.5°	3526.1	3348.5	1168.8	374.8	355.1	345.2	345.2	345.2	330.4	335.3	335.3
40°	3826.9	3595.1	932.1	350.1	330.4	305.8	295.9	300.8	291.0	291.0	286.0
42.5°	4236.2	3861.4	700.3	330.4	310.7	276.2	256.4	251.5	241.6	236.7	236.7
45°	4823.1	4186.9	503.0	310.7	295.9	241.6	221.9	207.1	182.5	167.7	167.7
47.5°	5582.5	4556.7	374.8	291.0	281.1	212.1	187.4	157.8	123.3	113.4	113.4
50°	6509.6	4971.0	315.6	261.4	256.4	187.4	147.9	103.6	69.0	59.2	64.1
52.5°	7412.1	5360.6	281.1	231.8	226.9	162.7	108.5	54.2	29.6	29.6	29.6
55°	8171.6	5636.8	256.4	207.1	197.3	128.2	59.2	24.7	14.8	14.8	14.8
57.5°	8857.1	5794.6	231.8	182.5	157.8	88.8	24.7	9.9	9.9	4.9	4.9
60°	9483.4	5888.3	202.2	157.8	123.3	49.3	9.9	4.9	4.9	0.0	0.0
62.5°	10099.8	5957.3	172.6	128.2	93.7	19.7	4.9	4.9	0.0	0.0	0.0
65°	10568.3	5932.6	138.1	103.6	59.2	9.9	4.9	0.0	0.0	0.0	0.0
67.5°	10553.5	5597.3	103.6	78.9	29.6	4.9	0.0	0.0	0.0	0.0	0.0
70°	9439.0	4714.6	69.0	49.3	9.9	4.9	0.0	0.0	0.0	0.0	0.0
72.5°	6697.0	3023.0	44.4	29.6	4.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	2949.1	917.3	24.7	14.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	577.0	212.1	14.8	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	138.1	24.7	4.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	59.2	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.9	4.9	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)