

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: P236953

Luminaire Tested: **ARCH-L-AF72-200-D-U-T2R-7030-HSS**

Issue Date: 8/23/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P236953  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29623)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 8/23/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-AF72-200-D-U-T2R-7030-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 860mA 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: 18847.2 lumens  
Efficiency: N/A  
Efficacy: 93.8 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

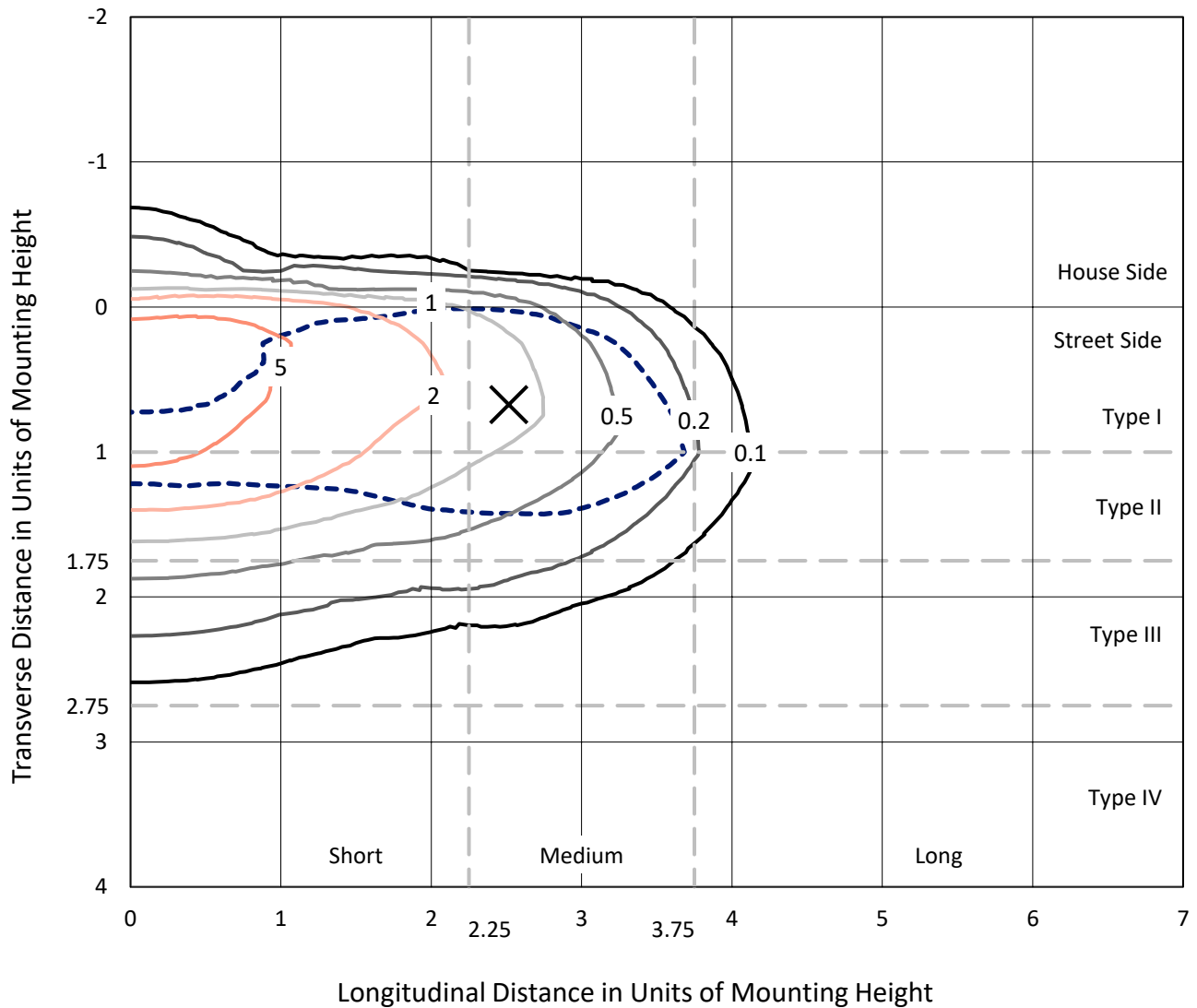
Input Watts (W): 201  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P236953  
 CATALOG NUMBER: ARCH-L-AF72-200-D-U-T2R-7030-HSS

### Iso-Footcandle Lines of Horizontal Illumination

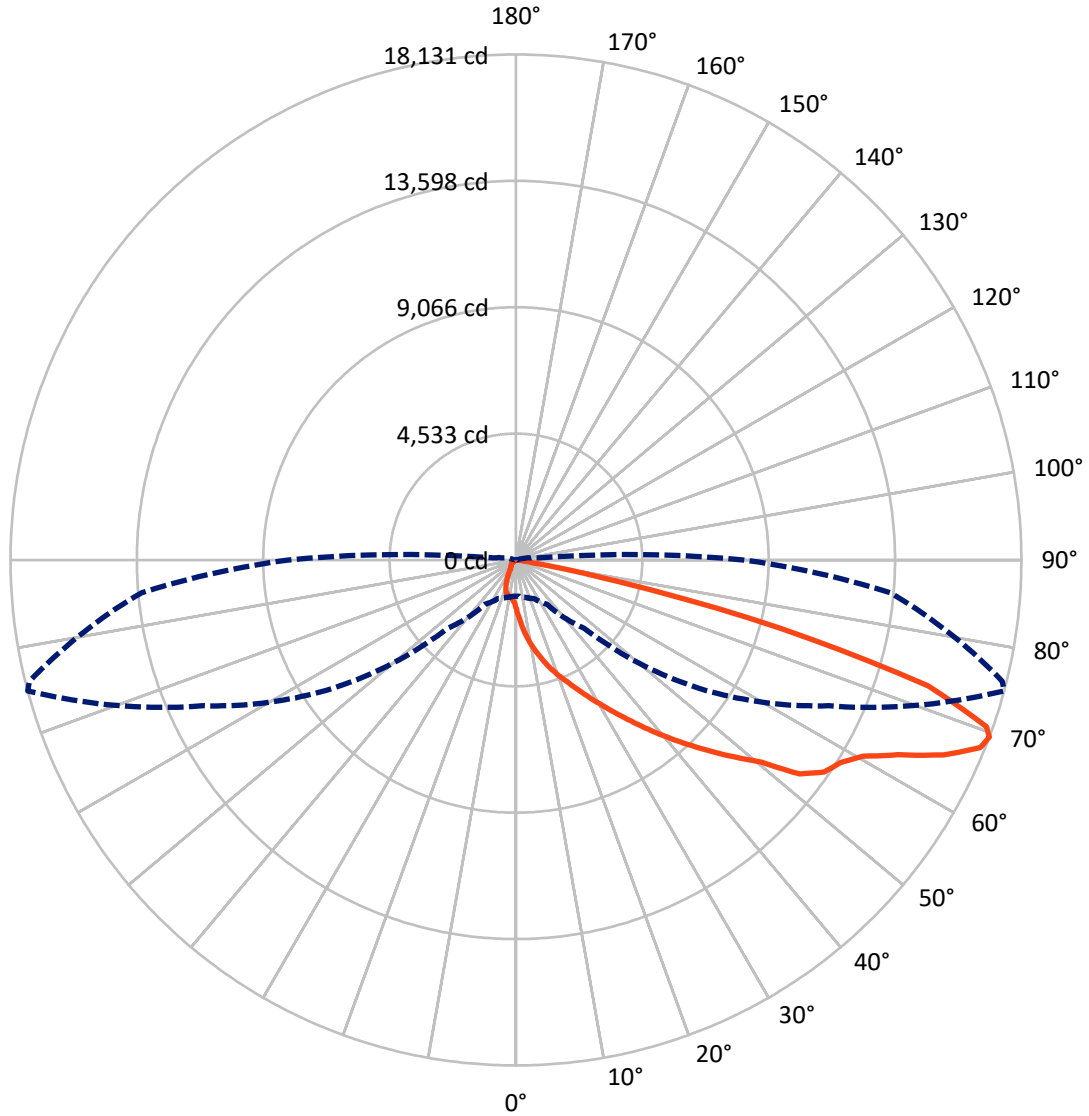
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type II - Medium - N/A

REPORT NUMBER: P236953  
CATALOG NUMBER: ARCH-L-AF72-200-D-U-T2R-7030-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P236953  
 CATALOG NUMBER: ARCH-L-AF72-200-D-U-T2R-7030-HSS

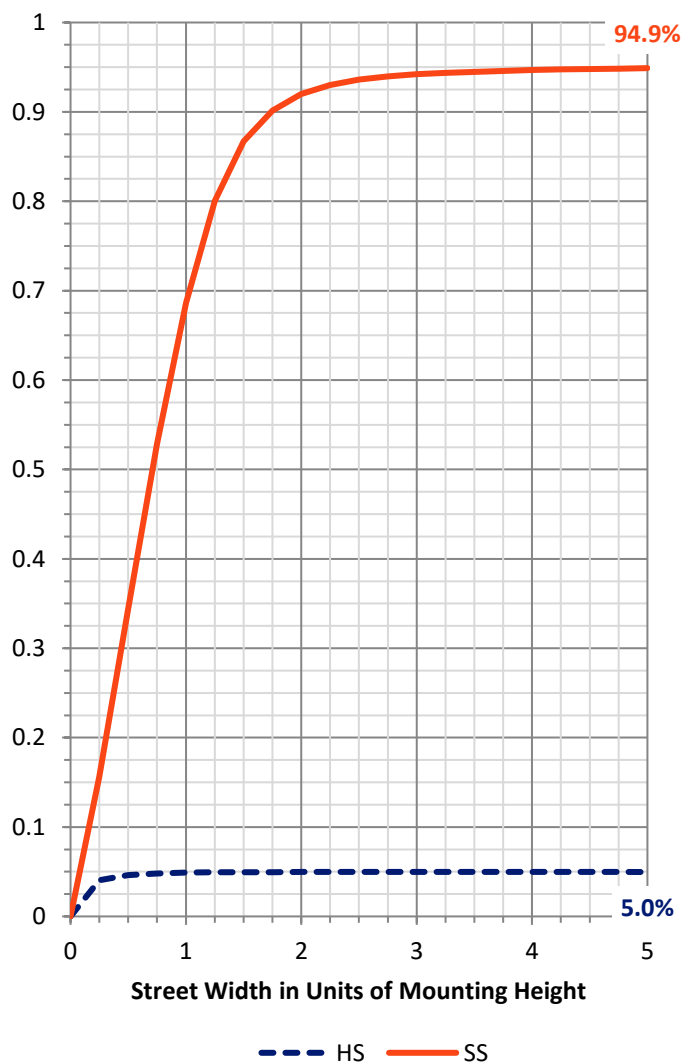
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	940.3	0.0	940.3
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	17906.9	0.0	17906.9
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	18847.2	0.0	18847.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.5	1.1
10°-20°	731.1	3.9
20°-30°	1395.7	7.4
30°-40°	2503.6	13.3
40°-50°	3835.7	20.4
50°-60°	4458.0	23.7
60°-70°	3947.6	20.9
70°-80°	1702.8	9.0
80°-90°	68.2	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°	18847.2	100.0
0°-180°	18847.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P236953

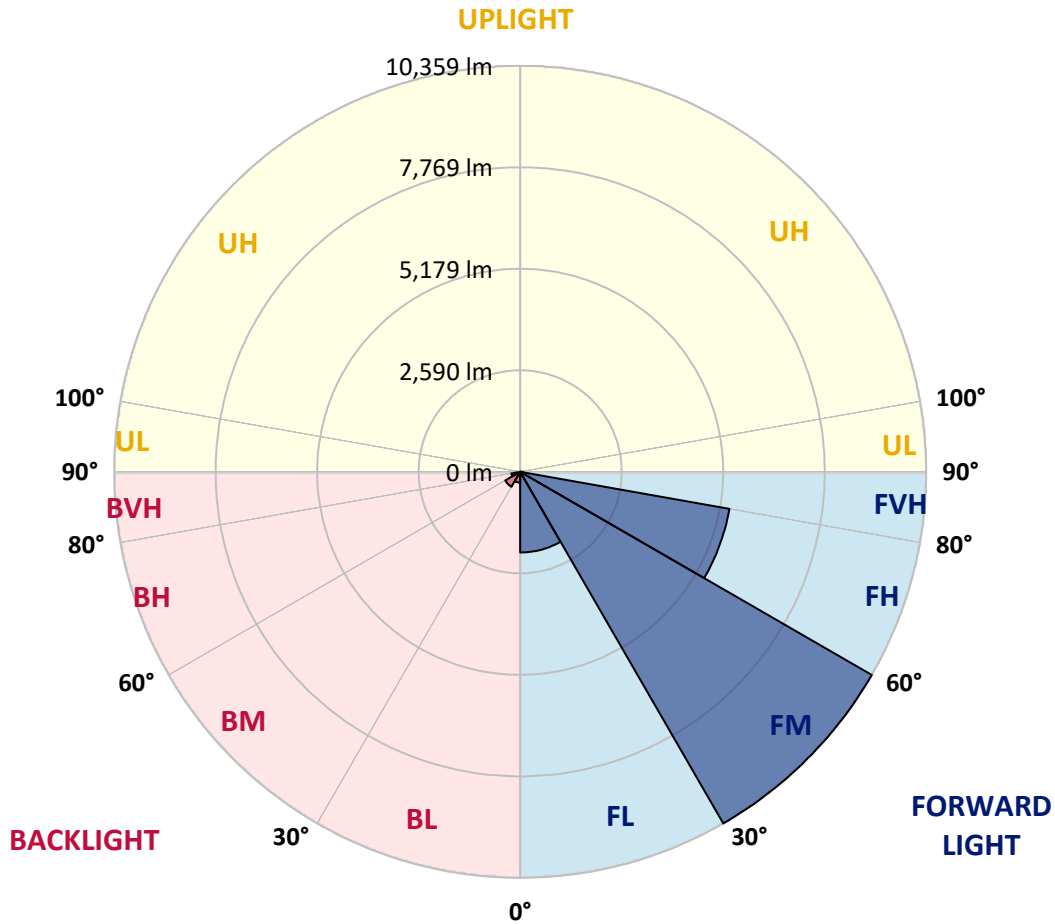
CATALOG NUMBER: ARCH-L-AF72-200-D-U-T2R-7030-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2058.1	10.9			
FM (30°-60°)	10358.9	55.0			
FH (60°-80°)	5422.6	28.8			G3/7500
FVH (80°-90°)	67.2	0.4			G1/100
BL (0°-30°)	273.1	1.4	B1/500		
BM (30°-60°)	438.4	2.3	B1/1000		
BH (60°-80°)	227.8	1.2	B1/500		G1/500
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: B1-U0-G3**

Type II Medium





REPORT NUMBER: P236953

CATALOG NUMBER: ARCH-L-AF72-200-D-U-T2R-7030-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1753.7	1753.7	1753.7	1753.7	1753.7	1753.7	1753.7	1753.7	1753.7	1753.7	1753.7
2.5°	2889.0	2860.5	2832.0	2799.4	2726.2	2600.1	2441.4	2270.5	2058.9	2022.3	1851.4
5°	3507.4	3495.2	3466.8	3422.0	3340.6	3202.3	3023.2	2771.0	2417.0	2355.9	1993.8
7.5°	3942.8	3934.7	3910.3	3857.4	3784.2	3645.8	3458.6	3186.0	2775.0	2706.0	2172.8
10°	4333.4	4329.4	4309.0	4260.2	4187.0	4036.5	3837.0	3552.2	3116.8	3039.5	2380.3
12.5°	4687.4	4691.5	4683.4	4659.0	4606.1	4463.7	4235.8	3926.6	3446.4	3361.0	2628.6
15°	4895.0	4907.2	4939.7	4988.6	5004.8	4890.9	4654.9	4313.1	3784.2	3710.9	2913.4
17.5°	4825.8	4838.0	4939.7	5106.6	5265.2	5281.5	5069.9	4679.3	4117.8	4044.6	3194.2
20°	4659.0	4675.2	4781.0	5008.9	5318.2	5533.8	5448.3	5078.1	4435.2	4345.7	3462.7
22.5°	4846.2	4846.2	4878.7	5017.0	5297.8	5635.5	5749.4	5476.8	4760.7	4650.8	3731.2
25°	5489.0	5476.8	5407.7	5350.7	5440.2	5741.3	5977.3	5883.7	5143.2	5017.0	4016.1
27.5°	6302.8	6359.8	6229.6	6022.1	5818.6	5948.8	6180.8	6286.6	5566.3	5436.2	4309.0
30°	7214.3	7238.8	7084.1	6807.4	6449.3	6323.2	6420.8	6632.5	6026.2	5883.7	4614.2
32.5°	8036.2	8016.0	7885.7	7596.8	7153.2	6880.6	6730.1	6909.1	6526.6	6364.0	4927.5
35°	8764.6	8780.8	8622.2	8288.5	7853.1	7564.2	7206.2	7222.5	7088.2	6901.0	5289.7
37.5°	9419.7	9391.2	9240.6	8907.1	8512.3	8199.1	7820.6	7547.9	7702.6	7507.2	5696.6
40°	9952.8	9924.2	9765.5	9440.0	9069.7	8813.4	8516.3	7983.3	8349.5	8125.7	6131.9
42.5°	10376.0	10343.3	10209.0	9895.7	9537.7	9309.8	9167.4	8520.5	9041.2	8817.4	6620.2
45°	10583.4	10554.9	10473.5	10237.5	9924.2	9724.8	9794.0	9138.9	9781.8	9594.6	7157.3
47.5°	10339.2	10327.0	10420.6	10379.9	10200.9	10095.1	10335.2	9814.3	10559.1	10376.0	7775.8
50°	9598.8	9619.0	9891.7	10229.4	10314.8	10441.1	10778.8	10526.5	11393.1	11197.8	8488.0
52.5°	7771.7	7910.1	8732.0	9545.8	10176.5	10652.6	11299.5	11543.7	12752.2	12560.9	9598.8
55°	5802.3	5859.3	6754.5	8146.1	9619.0	10636.3	11686.1	12141.8	13423.6	13228.2	9891.7
57.5°	4602.0	4622.3	5066.0	6485.9	8471.6	10270.1	11889.5	12357.4	13716.5	13553.7	10327.0
60°	3613.2	3637.7	3959.1	4935.7	6856.2	9281.3	11596.6	12544.6	14290.2	14160.0	11087.9
62.5°	2811.7	2836.1	3031.4	3605.1	5143.2	7759.5	11006.6	12845.7	15380.8	15319.7	12333.0
65°	2176.9	2185.0	2319.3	2588.0	3633.6	6111.6	10286.3	13126.5	16853.7	16800.8	13342.2
67.5°	1607.2	1619.4	1713.0	1880.0	2453.6	4390.5	9106.3	12910.8	17964.5	17810.0	13708.3
69°	1298.0	1310.2	1391.6	1526.0	1936.8	3458.6	8028.1	12377.8	18131.3	17984.8	13476.5
70°	1110.8	1119.0	1200.3	1314.3	1652.0	2937.8	7173.6	11918.0	17911.6	17769.2	12947.4
72.5°	712.1	752.8	834.0	907.4	1094.6	1945.0	4842.1	9883.5	15453.9	15209.9	10140.0
75°	394.7	406.9	553.4	642.9	728.3	1265.4	2693.7	6164.5	9830.6	9659.7	5423.9
77.5°	325.5	333.7	390.6	488.3	488.3	708.0	1017.2	2429.2	3739.4	3373.2	1468.9
80°	228.0	236.0	297.0	321.4	349.9	398.8	329.6	533.0	577.8	512.7	219.7
82.5°	158.7	166.8	203.4	264.5	280.8	187.2	122.1	158.7	166.8	166.8	85.4
85°	28.5	40.7	150.6	219.7	166.8	57.0	69.2	57.0	52.9	57.0	20.3
87.5°	0.0	0.0	93.6	105.8	89.5	24.4	28.5	20.3	12.2	16.3	8.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P236953

CATALOG NUMBER: ARCH-L-AF72-200-D-U-T2R-7030-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1753.7	1753.7	1753.7	1753.7	1753.7	1753.7	1753.7	1753.7	1753.7	1753.7	1753.7
2.5°	1765.9	1680.5	1534.0	1428.2	1338.7	1269.5	1241.0	1196.3	1163.7	1180.0	1159.7
5°	1814.8	1664.2	1428.2	1277.7	1172.0	1082.3	1009.1	952.0	907.4	899.2	891.1
7.5°	1892.1	1676.4	1367.2	1180.0	1021.3	883.0	769.0	683.6	618.5	618.5	594.1
10°	1998.0	1709.0	1330.6	1082.3	846.3	659.2	545.2	464.0	431.3	427.2	419.1
12.5°	2144.3	1770.0	1302.1	956.2	659.2	480.0	411.0	382.5	370.3	366.2	362.0
15°	2343.7	1859.5	1269.5	801.6	500.5	394.7	366.2	341.8	329.6	325.5	321.4
17.5°	2535.0	1940.9	1200.3	642.9	406.9	358.1	325.5	305.2	288.9	284.8	284.8
20°	2714.0	2010.1	1082.3	500.5	366.2	321.4	288.9	264.5	248.2	244.0	244.0
22.5°	2901.2	2067.0	936.0	406.9	333.7	284.8	252.3	228.0	211.6	207.5	203.4
25°	3100.6	2107.7	769.0	362.0	301.1	252.3	215.7	195.3	183.1	179.0	175.0
27.5°	3316.2	2124.0	610.3	329.6	264.5	219.7	187.2	166.8	158.7	154.6	154.6
30°	3511.5	2107.7	472.0	293.0	231.9	191.2	162.8	146.5	138.3	134.3	134.3
32.5°	3715.0	2067.0	378.4	260.4	203.4	162.8	138.3	126.0	122.1	118.0	118.0
35°	3930.6	2014.2	325.5	231.9	175.0	142.4	122.1	113.9	110.0	105.8	105.8
37.5°	4182.9	1949.0	297.0	207.5	154.6	126.0	105.8	101.7	97.7	97.7	97.7
40°	4467.7	1867.7	276.7	187.2	138.3	110.0	93.6	89.5	85.4	85.4	85.4
42.5°	4768.8	1774.1	256.3	166.8	122.1	93.6	81.4	81.4	77.3	77.3	73.2
45°	5106.6	1680.5	236.0	146.5	105.8	81.4	69.2	65.1	65.1	61.0	61.0
47.5°	5505.3	1595.0	215.7	130.2	93.6	69.2	61.0	57.0	52.9	48.8	48.8
50°	6066.8	1586.9	191.2	113.9	85.4	57.0	48.8	44.8	40.7	36.6	36.6
52.5°	6624.3	1513.7	162.8	93.6	69.2	48.8	36.6	32.6	28.5	28.5	24.4
55°	6750.5	1391.6	142.4	81.4	52.9	36.6	28.5	20.3	20.3	16.3	16.3
57.5°	7027.1	1334.6	122.1	65.1	40.7	28.5	16.3	12.2	12.2	12.2	12.2
60°	7572.3	1318.3	105.8	57.0	28.5	20.3	12.2	8.0	8.0	4.1	4.1
62.5°	8325.1	1302.1	89.5	48.8	20.3	12.2	8.0	4.1	0.0	0.0	0.0
65°	8740.2	1192.2	73.2	36.6	16.3	12.2	4.1	0.0	0.0	0.0	0.0
67.5°	8630.3	984.7	65.1	24.4	12.2	8.0	4.1	0.0	0.0	0.0	0.0
69°	8170.5	830.1	52.9	20.3	12.2	8.0	4.1	0.0	0.0	0.0	0.0
70°	7617.1	716.0	48.8	16.3	8.0	4.1	4.1	0.0	0.0	0.0	0.0
72.5°	5407.7	374.3	32.6	12.2	8.0	4.1	0.0	0.0	0.0	0.0	0.0
75°	2526.8	166.8	20.3	8.0	4.1	4.1	0.0	0.0	0.0	0.0	0.0
77.5°	557.4	77.3	12.2	8.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	105.8	28.5	8.0	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.6	12.2	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	0.0	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)