

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: P237426

Luminaire Tested: **ARCH-L-AF72-130-D-U-T4W-7030-HSS**

Issue Date: 8/23/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P237426  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29625)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 8/23/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-AF72-130-D-U-T4W-7030-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 575mA 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: 12395.4 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G3

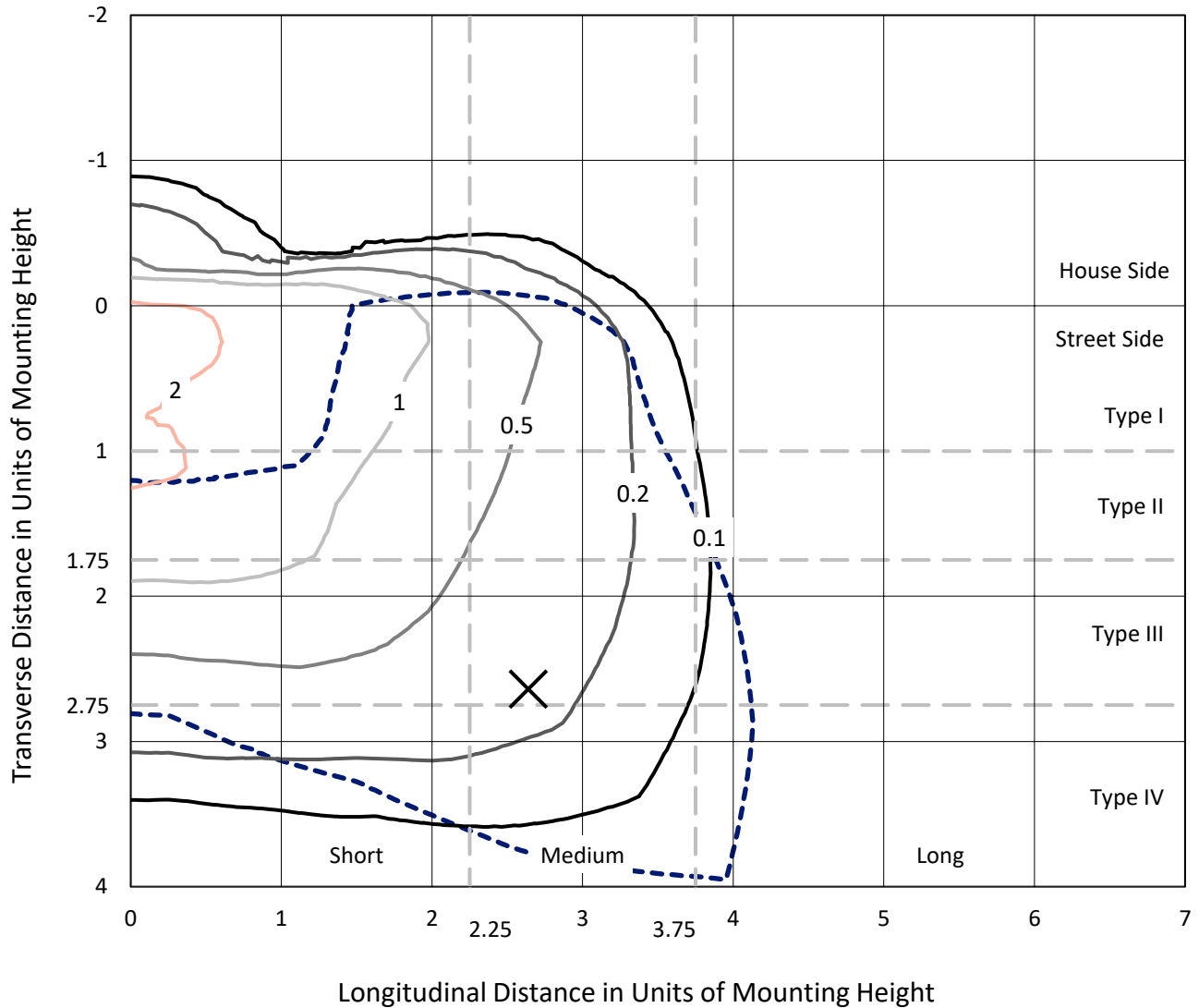
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

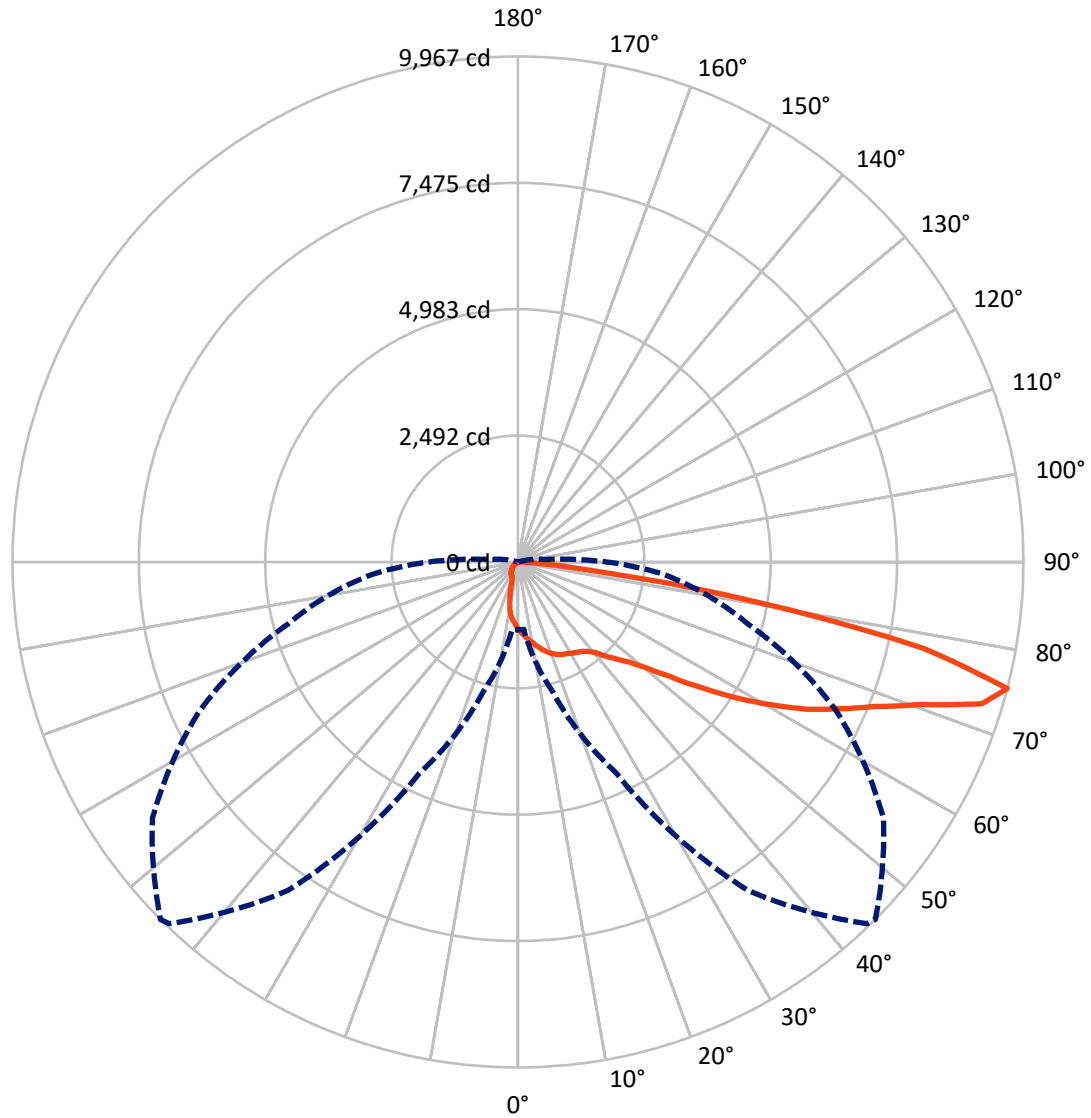
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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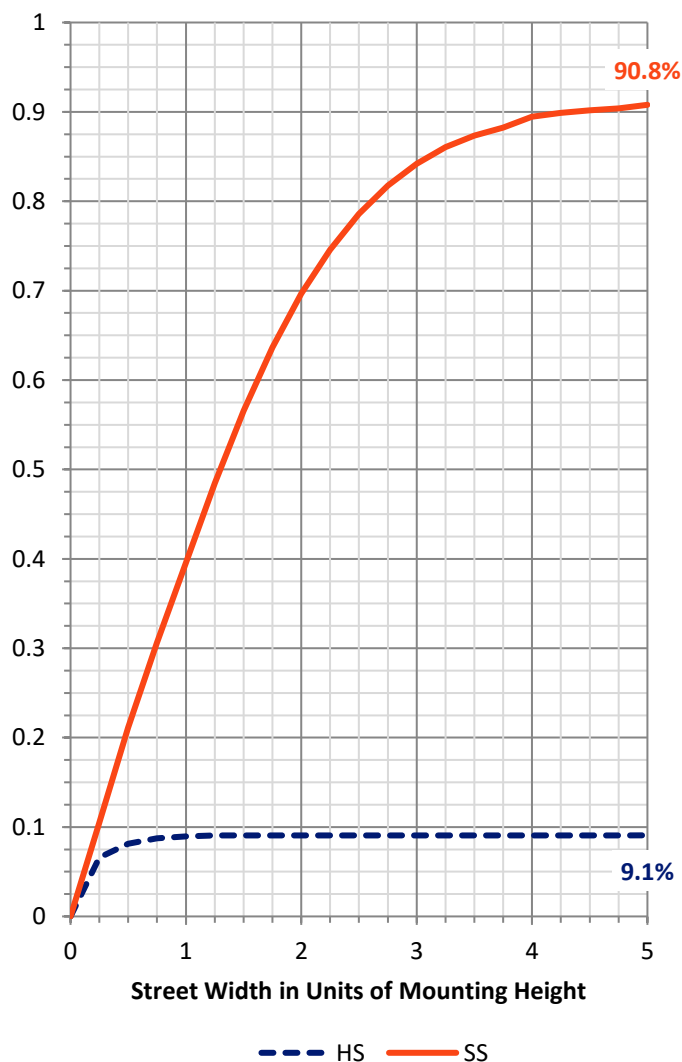
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1133.8	0.0	1133.8
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	11261.6	0.0	11261.6
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	12395.4	0.0	12395.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.1	1.0
10°-20°	354.5	2.9
20°-30°	587.1	4.7
30°-40°	849.6	6.9
40°-50°	1391.2	11.2
50°-60°	2478.8	20.0
60°-70°	3644.2	29.4
70°-80°	2749.2	22.2
80°-90°	215.7	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°	12395.4	100.0
0°-180°	12395.4	100.0

**Coefficient of Utilization**



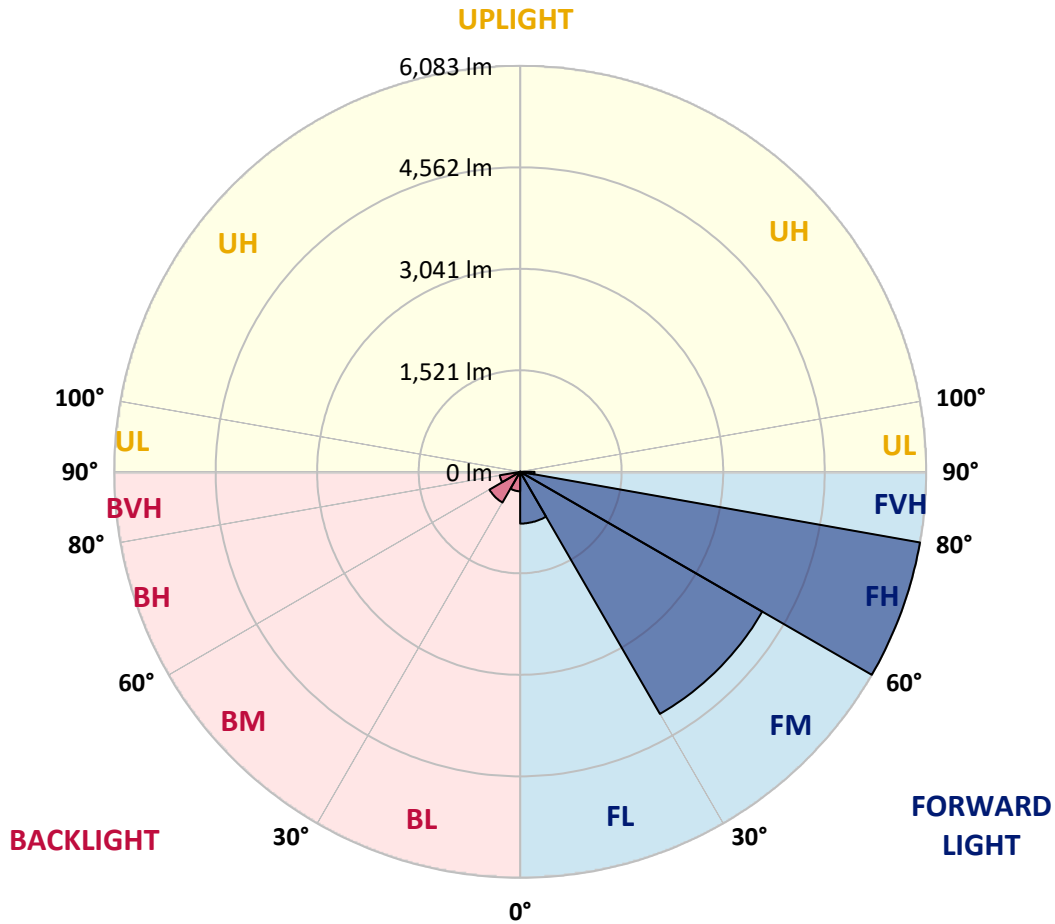
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	775.3	6.3			
FM (30°-60°)	4188.4	33.8			
FH (60°-80°)	6082.9	49.1			G3/7500
FVH (80°-90°)	215.1	1.7			G2/225
BL (0°-30°)	291.4	2.4	B1/500		
BM (30°-60°)	531.3	4.3	B1/1000		
BH (60°-80°)	310.5	2.5	B1/500		G1/500
BVH (80°-90°)	0.6	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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8
2.5°	1440.1	1440.1	1437.2	1434.2	1419.6	1405.0	1402.1	1393.3	1366.9	1349.3	1331.7
5°	1560.4	1563.4	1557.5	1542.8	1510.5	1478.3	1475.3	1451.8	1402.1	1366.9	1328.7
7.5°	1674.8	1680.6	1665.9	1639.7	1601.5	1554.5	1551.6	1507.7	1443.1	1393.3	1337.5
10°	1771.6	1771.6	1751.1	1718.7	1677.7	1627.9	1622.0	1572.1	1498.8	1437.2	1363.9
12.5°	1877.2	1874.3	1845.0	1800.9	1754.0	1707.0	1704.1	1642.5	1572.1	1492.9	1402.1
15°	1974.0	1968.1	1929.9	1888.9	1839.1	1789.2	1786.3	1724.6	1651.4	1557.5	1457.7
17.5°	2026.8	2023.8	1988.6	1947.5	1906.5	1868.4	1865.5	1800.9	1721.7	1624.9	1513.5
20°	2035.6	2038.6	2009.2	1974.0	1950.5	1929.9	1929.9	1871.3	1786.3	1683.5	1572.1
22.5°	2038.6	2047.3	2026.8	1979.9	1974.0	1976.9	1982.7	1935.8	1847.9	1751.1	1633.8
25°	2059.0	2070.8	2056.1	2000.4	1994.5	2015.1	2020.9	2000.4	1921.3	1824.4	1704.1
27.5°	2100.1	2111.9	2100.1	2029.7	2020.9	2041.4	2047.3	2059.0	2000.4	1894.8	1777.4
30°	2182.2	2185.1	2158.8	2070.8	2053.2	2079.5	2088.4	2120.6	2073.7	1962.3	1847.9
32.5°	2325.9	2296.6	2217.4	2100.1	2085.4	2114.7	2123.6	2158.8	2141.2	2026.8	1921.3
35°	2619.3	2466.7	2284.9	2141.2	2126.5	2155.8	2167.6	2217.4	2226.2	2117.7	2012.1
37.5°	2616.3	2478.4	2443.2	2220.3	2199.8	2220.3	2235.0	2296.6	2331.8	2237.9	2144.1
40°	2801.1	2742.4	2742.4	2370.0	2302.5	2331.8	2346.5	2408.1	2469.7	2396.4	2299.6
42.5°	3381.9	3343.8	3302.7	2657.4	2446.2	2528.4	2537.1	2575.2	2648.6	2625.2	2510.8
45°	4030.0	3994.8	3836.5	3144.3	2692.5	2707.2	2727.7	2789.4	2895.0	2939.0	2804.0
47.5°	4537.5	4502.3	4367.4	3730.8	3076.8	2947.9	2947.9	3068.0	3232.3	3343.8	3214.6
50°	4945.2	4904.1	4822.0	4355.6	3707.5	3293.8	3276.2	3417.1	3660.5	3833.6	3745.5
52.5°	5341.1	5221.0	5171.0	5000.9	4420.2	3795.4	3748.4	3848.2	4185.5	4399.7	4326.3
55°	5605.1	5587.5	5534.7	5593.4	5168.1	4405.6	4364.5	4385.0	4807.4	4951.1	4860.2
57.5°	5851.5	5848.6	5965.9	6238.7	5983.5	5103.6	5039.0	5006.8	5408.7	5373.5	5452.6
60°	6156.5	6103.8	6376.6	6766.7	6731.5	5784.0	5710.8	5646.2	5869.2	5769.4	6162.4
62.5°	6171.3	6156.5	6710.9	7271.2	7473.6	6476.4	6391.2	6159.5	6270.9	6156.5	6839.9
65°	5611.0	5684.3	6851.7	7538.2	8095.3	7083.4	6980.8	6620.0	6628.8	6552.5	7637.8
67.5°	5485.0	5523.0	6464.6	7825.4	8544.1	7696.4	7599.6	7150.9	7045.2	7051.1	8110.0
70°	5171.0	5229.7	5983.5	7804.9	8899.0	8514.8	8418.0	7931.1	7675.9	7391.4	7746.4
72.5°	3951.0	4050.6	5042.0	6842.9	8802.3	9585.5	9559.0	8919.6	7928.2	6787.1	5860.3
75°	1337.5	1334.6	2648.6	4596.2	7907.6	9913.8	9966.6	8796.4	6916.2	4681.2	2909.7
77.5°	287.5	290.4	545.5	1862.6	5253.1	7960.4	8162.9	6634.7	4461.3	2085.4	665.8
80°	140.8	143.6	225.8	492.8	2100.1	4464.3	4780.9	3411.2	1648.4	416.5	111.5
82.5°	70.4	73.3	117.4	261.0	777.3	1586.8	1695.3	1255.4	472.2	234.7	55.7
85°	26.4	26.4	58.7	155.4	354.9	372.5	457.6	363.8	284.5	190.6	14.6
87.5°	5.9	5.9	32.2	76.3	158.4	117.4	117.4	111.5	173.0	129.0	5.9
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°	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8	1325.8
2.5°	1322.8	1311.1	1290.6	1270.0	1255.4	1237.8	1228.9	1220.2	1217.2	1214.3	1220.2
5°	1308.2	1290.6	1252.4	1220.2	1190.8	1167.3	1149.7	1132.2	1123.4	1117.5	1120.5
7.5°	1308.2	1281.7	1226.0	1176.1	1129.2	1079.4	1029.6	991.4	962.0	944.4	947.4
10°	1322.8	1287.6	1214.3	1146.9	1058.8	953.3	844.7	762.6	706.9	674.5	674.5
12.5°	1355.2	1308.2	1217.2	1111.6	962.0	777.3	613.1	513.3	472.2	448.7	451.7
15°	1399.1	1343.4	1231.9	1064.7	827.1	577.9	428.2	363.8	363.8	369.7	372.5
17.5°	1449.0	1387.4	1243.6	994.4	654.1	413.5	337.3	331.5	340.3	354.9	354.9
20°	1498.8	1431.4	1249.5	882.9	489.8	328.6	319.7	319.7	325.6	340.3	343.2
22.5°	1560.4	1487.1	1243.6	745.0	366.7	311.0	308.0	308.0	308.0	325.6	325.6
25°	1624.9	1551.6	1220.2	598.3	311.0	299.2	296.2	293.4	293.4	308.0	311.0
27.5°	1698.2	1619.1	1164.4	457.6	293.4	287.5	284.5	278.6	278.6	290.4	290.4
30°	1771.6	1695.3	1079.4	346.2	278.6	275.7	269.9	264.0	258.1	269.9	269.9
32.5°	1850.8	1774.5	967.9	275.7	258.1	258.1	255.2	246.4	240.5	246.4	249.3
35°	1956.4	1865.5	841.9	240.5	231.7	231.7	231.7	228.8	217.1	222.9	222.9
37.5°	2097.1	1991.6	695.1	222.9	211.2	205.3	205.3	205.3	196.5	199.4	199.4
40°	2276.1	2138.2	554.4	208.2	196.5	181.8	176.0	178.9	173.0	173.0	170.1
42.5°	2519.5	2296.6	416.5	196.5	184.7	164.2	152.5	149.5	143.6	140.8	140.8
45°	2868.6	2490.2	299.2	184.7	176.0	143.6	131.9	123.3	108.5	99.8	99.8
47.5°	3320.3	2710.1	222.9	173.0	167.1	126.0	111.5	93.9	73.3	67.4	67.4
50°	3871.7	2956.5	187.7	155.4	152.5	111.5	88.0	61.6	41.1	35.2	38.1
52.5°	4408.5	3188.3	167.1	137.8	134.9	96.8	64.6	32.2	17.6	17.6	17.6
55°	4860.2	3352.5	152.5	123.3	117.4	76.3	35.2	14.6	8.8	8.8	8.8
57.5°	5267.8	3446.4	137.8	108.5	93.9	52.8	14.6	5.9	5.9	2.9	2.9
60°	5640.4	3502.1	120.3	93.9	73.3	29.3	5.9	2.9	2.9	0.0	0.0
62.5°	6007.0	3543.2	102.7	76.3	55.7	11.7	2.9	2.9	0.0	0.0	0.0
65°	6285.6	3528.5	82.2	61.6	35.2	5.9	2.9	0.0	0.0	0.0	0.0
67.5°	6276.8	3329.0	61.6	47.0	17.6	2.9	0.0	0.0	0.0	0.0	0.0
70°	5614.0	2804.0	41.1	29.3	5.9	2.9	0.0	0.0	0.0	0.0	0.0
72.5°	3983.1	1798.0	26.4	17.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	1754.0	545.5	14.6	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	343.2	126.0	8.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	82.2	14.6	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.2	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	2.9	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)