

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: P237466

Luminaire Tested: **ARCH-L-AF72-130-D-U-T4W-7050-HSS**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P237466
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-AF72-130-D-U-T4W-7050-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 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: 12816 lumens
Efficiency: N/A
Efficacy: 96.4 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

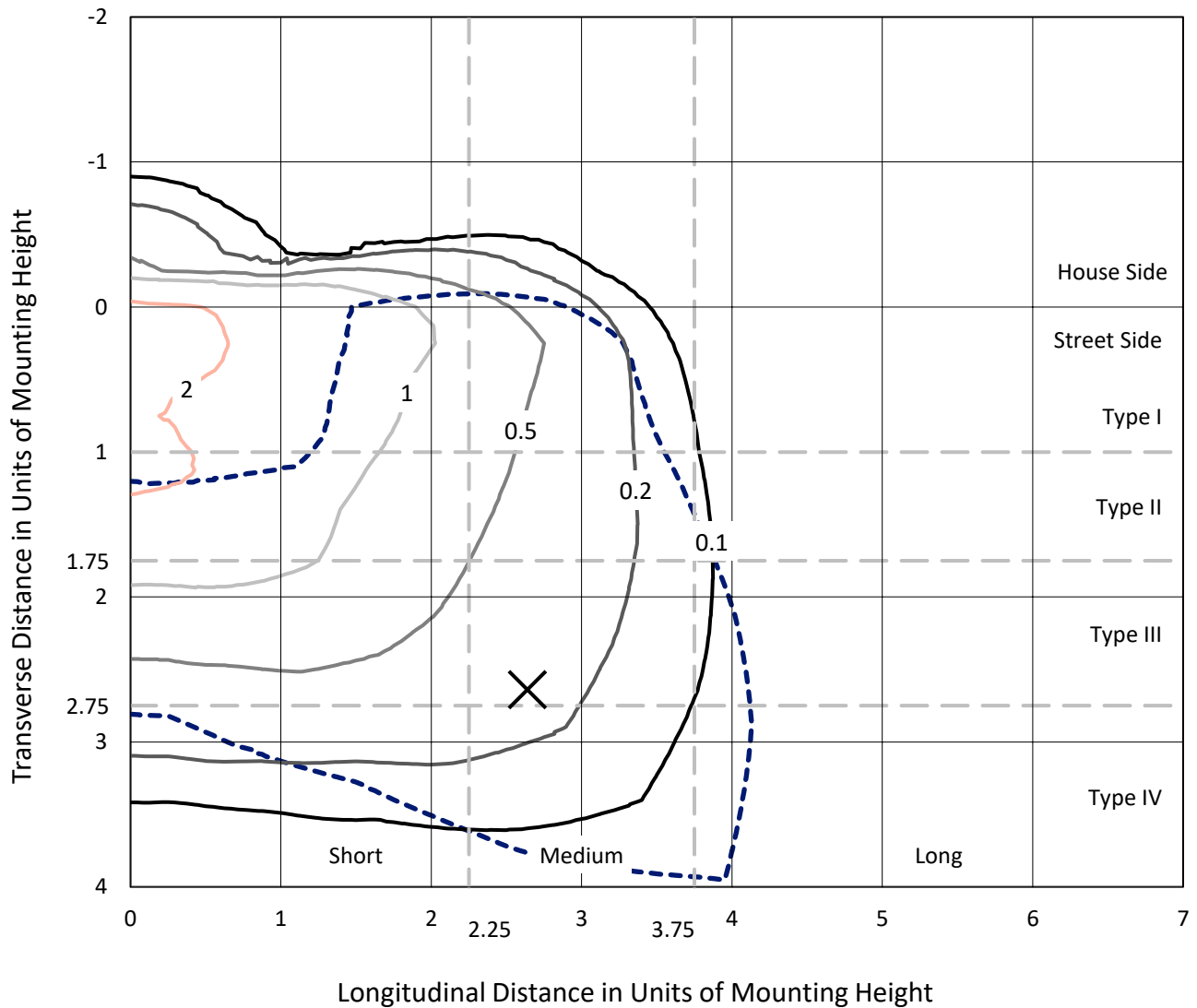
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

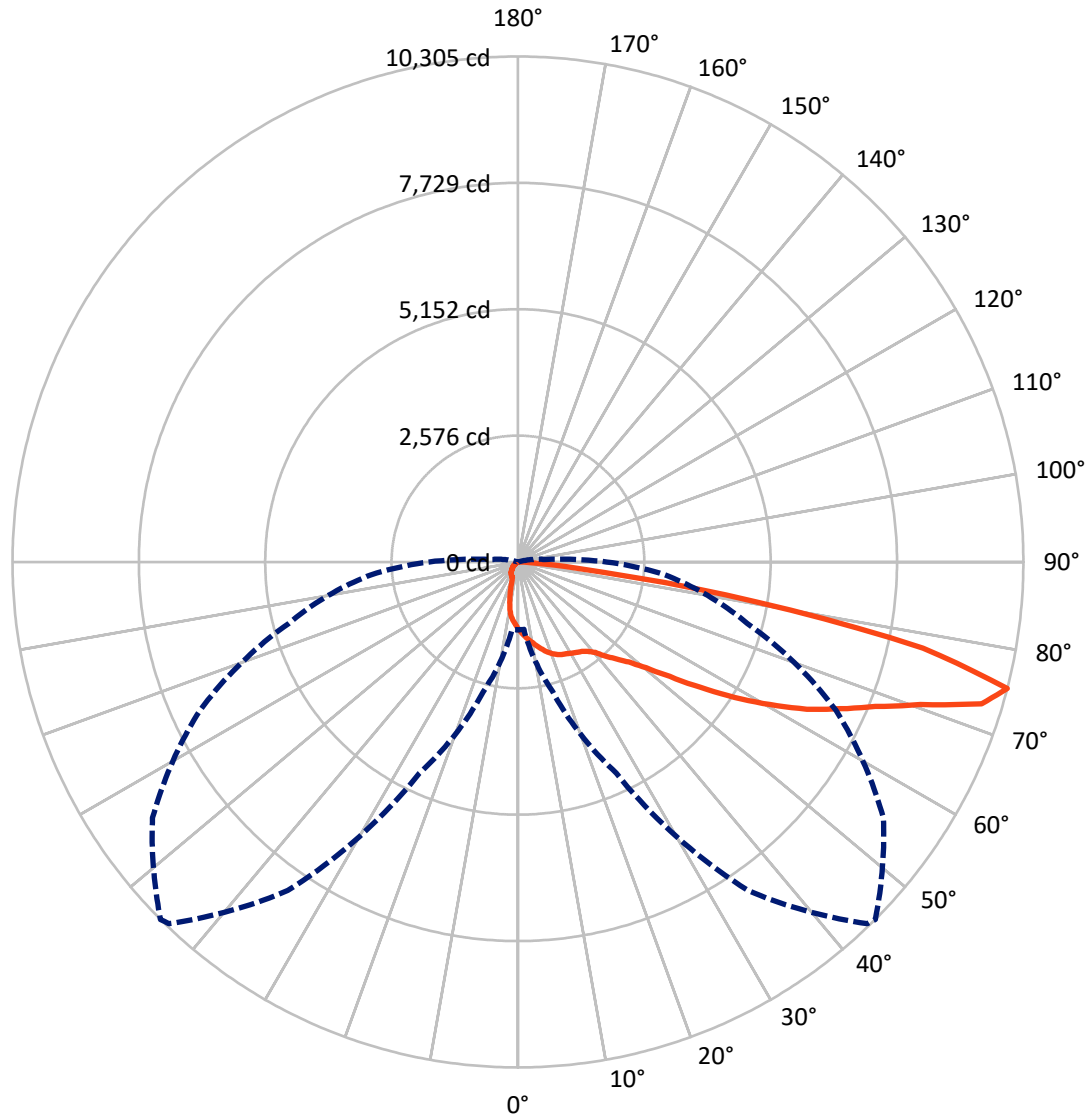
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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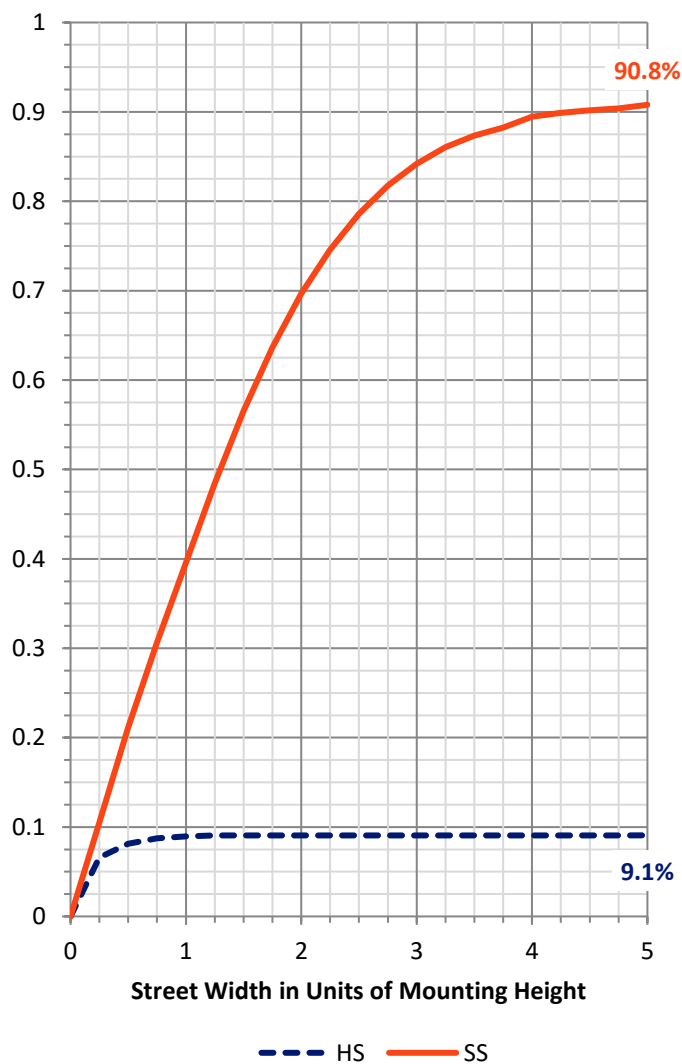
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1172.3	0.0	1172.3
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	11643.7	0.0	11643.7
	% Fixture	90.9	0.0	90.9
Total	Lumens	12816.0	0.0	12816.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	1.0
10°-20°	366.5	2.9
20°-30°	607.0	4.7
30°-40°	878.4	6.9
40°-50°	1438.4	11.2
50°-60°	2562.9	20.0
60°-70°	3767.8	29.4
70°-80°	2842.5	22.2
80°-90°	223.0	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°	12816.0	100.0
0°-180°	12816.0	100.0

Coefficient of Utilization



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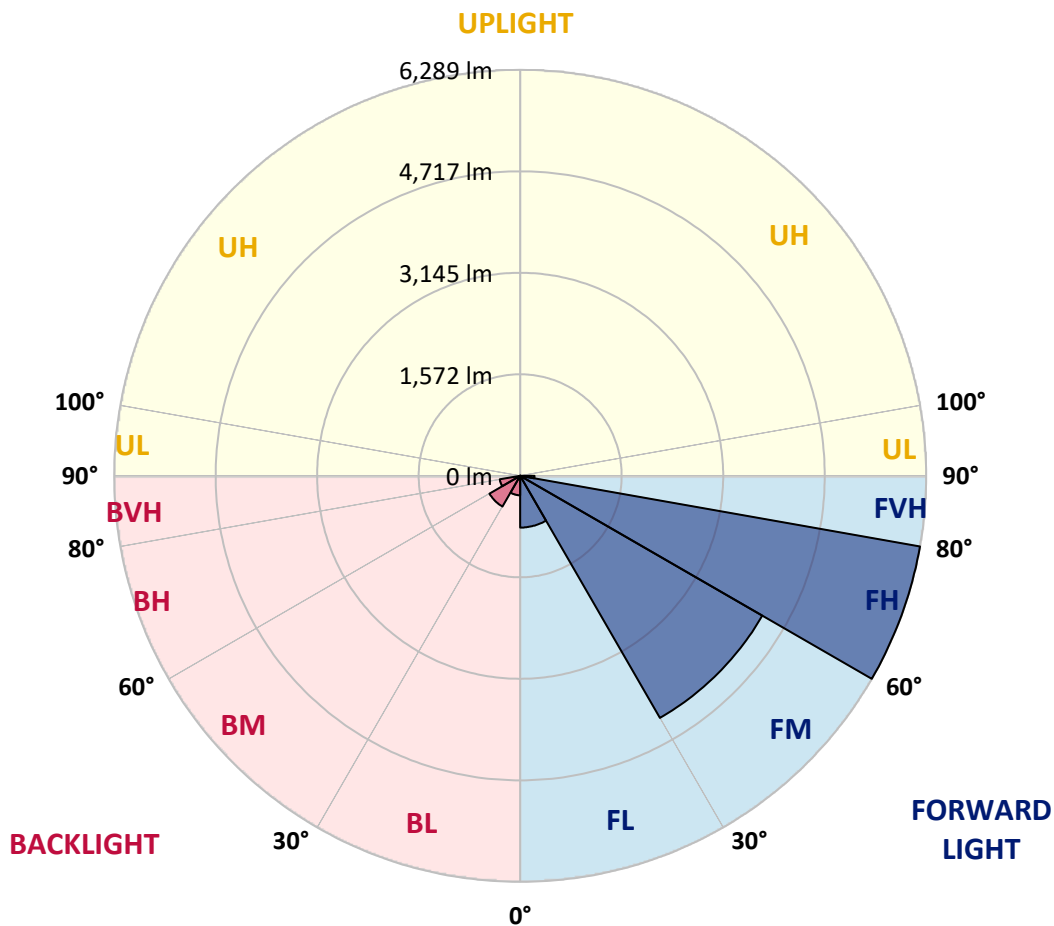
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	801.6	6.3			
FM (30°-60°)	4330.5	33.8			
FH (60°-80°)	6289.3	49.1			G3/7500
FVH (80°-90°)	222.4	1.7			G2/225
BL (0°-30°)	301.2	2.4	B1/500		
BM (30°-60°)	549.3	4.3	B1/1000		
BH (60°-80°)	321.1	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°	1370.7	1370.7	1370.7	1370.7	1370.7	1370.7	1370.7	1370.7	1370.7	1370.7	1370.7
2.5°	1489.0	1489.0	1486.0	1482.9	1467.8	1452.6	1449.6	1440.5	1413.2	1395.0	1376.8
5°	1613.3	1616.4	1610.3	1595.2	1561.8	1528.4	1525.4	1501.1	1449.6	1413.2	1373.8
7.5°	1731.6	1737.7	1722.5	1695.2	1655.8	1607.3	1604.3	1558.8	1492.0	1440.5	1382.9
10°	1831.7	1831.7	1810.5	1777.1	1734.7	1683.1	1677.0	1625.5	1549.7	1486.0	1410.2
12.5°	1940.9	1937.8	1907.5	1862.0	1813.5	1765.0	1761.9	1698.3	1625.5	1543.6	1449.6
15°	2040.9	2034.9	1995.5	1953.0	1901.4	1849.9	1846.9	1783.2	1707.4	1610.3	1507.2
17.5°	2095.5	2092.5	2056.1	2013.7	1971.2	1931.8	1928.7	1862.0	1780.1	1680.1	1564.8
20°	2104.6	2107.7	2077.3	2040.9	2016.7	1995.5	1995.5	1934.8	1846.9	1740.7	1625.5
22.5°	2107.7	2116.8	2095.5	2047.0	2040.9	2044.0	2050.0	2001.5	1910.5	1810.5	1689.2
25°	2128.9	2141.0	2125.9	2068.2	2062.2	2083.4	2089.5	2068.2	1986.4	1886.3	1761.9
27.5°	2171.4	2183.5	2171.4	2098.6	2089.5	2110.7	2116.8	2128.9	2068.2	1959.1	1837.8
30°	2256.3	2259.3	2232.0	2141.0	2122.8	2150.1	2159.2	2192.6	2144.1	2028.8	1910.5
32.5°	2404.9	2374.5	2292.7	2171.4	2156.2	2186.5	2195.6	2232.0	2213.8	2095.5	1986.4
35°	2708.1	2550.4	2362.4	2213.8	2198.6	2229.0	2241.1	2292.7	2301.8	2189.5	2080.4
37.5°	2705.1	2562.6	2526.2	2295.7	2274.5	2295.7	2310.9	2374.5	2410.9	2313.9	2216.8
40°	2896.1	2835.5	2835.5	2450.4	2380.6	2410.9	2426.1	2489.8	2553.5	2477.6	2377.6
42.5°	3496.6	3457.2	3414.7	2747.5	2529.2	2614.1	2623.2	2662.6	2738.4	2714.2	2595.9
45°	4166.8	4130.4	3966.7	3251.0	2783.9	2799.1	2820.3	2884.0	2993.2	3038.7	2899.2
47.5°	4691.5	4655.1	4515.6	3857.5	3181.2	3047.8	3047.8	3172.1	3341.9	3457.2	3323.7
50°	5113.0	5070.5	4985.6	4503.4	3833.2	3405.6	3387.4	3533.0	3784.7	3963.6	3872.6
52.5°	5522.4	5398.0	5346.5	5170.6	4570.1	3924.2	3875.7	3978.8	4327.5	4548.9	4473.1
55°	5795.3	5777.1	5722.5	5783.2	5343.5	4555.0	4512.5	4533.8	4970.5	5119.0	5025.0
57.5°	6050.1	6047.0	6168.3	6450.4	6186.5	5276.7	5210.0	5176.7	5592.1	5555.7	5637.6
60°	6365.5	6310.9	6592.9	6996.2	6959.8	5980.3	5904.5	5837.8	6068.3	5965.1	6371.5
62.5°	6380.6	6365.5	6938.6	7517.8	7727.1	6696.0	6608.1	6368.5	6483.7	6365.5	7072.1
65°	5801.4	5877.2	7084.2	7793.8	8370.0	7323.8	7217.6	6844.6	6853.7	6774.9	7896.9
67.5°	5671.0	5710.4	6683.9	8091.0	8834.0	7957.6	7857.5	7393.5	7284.3	7290.4	8385.2
70°	5346.5	5407.1	6186.5	8069.8	9200.9	8803.7	8703.6	8200.2	7936.3	7642.2	8009.1
72.5°	4084.9	4188.0	5213.1	7075.1	9100.9	9910.6	9883.3	9222.2	8197.2	7017.5	6059.2
75°	1382.9	1379.8	2738.4	4752.1	8175.9	10250.2	10304.8	9094.8	7150.9	4840.0	3008.4
77.5°	297.2	300.2	564.1	1925.7	5431.4	8230.5	8439.8	6859.8	4612.6	2156.2	688.4
80°	145.6	148.6	233.5	509.5	2171.4	4615.6	4943.2	3526.9	1704.3	430.6	115.2
82.5°	72.8	75.8	121.3	269.9	803.6	1640.6	1752.8	1298.0	488.3	242.6	57.6
85°	27.3	27.3	60.7	160.7	366.9	385.1	473.1	376.0	294.2	197.1	15.2
87.5°	6.1	6.1	33.4	78.8	163.8	121.3	121.3	115.2	178.9	133.4	6.1
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°	1370.7	1370.7	1370.7	1370.7	1370.7	1370.7	1370.7	1370.7	1370.7	1370.7	1370.7
2.5°	1367.7	1355.6	1334.3	1313.1	1298.0	1279.8	1270.7	1261.6	1258.5	1255.5	1261.6
5°	1352.5	1334.3	1294.9	1261.6	1231.2	1207.0	1188.8	1170.6	1161.5	1155.4	1158.5
7.5°	1352.5	1325.3	1267.6	1216.1	1167.6	1116.0	1064.4	1025.0	994.7	976.5	979.5
10°	1367.7	1331.3	1255.5	1185.8	1094.8	985.6	873.4	788.5	730.9	697.5	697.5
12.5°	1401.1	1352.5	1258.5	1149.4	994.7	803.6	633.8	530.7	488.3	464.0	467.0
15°	1446.6	1388.9	1273.7	1100.8	855.2	597.4	442.8	376.0	376.0	382.1	385.1
17.5°	1498.1	1434.4	1285.8	1028.1	676.3	427.6	348.8	342.7	351.8	366.9	366.9
20°	1549.7	1479.9	1291.9	912.8	506.4	339.7	330.6	330.6	336.6	351.8	354.8
22.5°	1613.3	1537.5	1285.8	770.3	379.1	321.5	318.4	318.4	318.4	336.6	336.6
25°	1680.1	1604.3	1261.6	618.7	321.5	309.3	306.3	303.3	303.3	318.4	321.5
27.5°	1755.9	1674.0	1203.9	473.1	303.3	297.2	294.2	288.1	288.1	300.2	300.2
30°	1831.7	1752.8	1116.0	357.8	288.1	285.1	279.0	272.9	266.9	279.0	279.0
32.5°	1913.6	1834.7	1000.8	285.1	266.9	266.9	263.8	254.7	248.7	254.7	257.8
35°	2022.8	1928.7	870.4	248.7	239.6	239.6	239.6	236.5	224.4	230.5	230.5
37.5°	2168.3	2059.1	718.7	230.5	218.3	212.3	212.3	212.3	203.2	206.2	206.2
40°	2353.3	2210.8	573.2	215.3	203.2	188.0	182.0	185.0	178.9	178.9	175.9
42.5°	2605.0	2374.5	430.6	203.2	191.1	169.8	157.7	154.7	148.6	145.6	145.6
45°	2965.9	2574.7	309.3	191.1	182.0	148.6	136.5	127.4	112.2	103.1	103.1
47.5°	3432.9	2802.1	230.5	178.9	172.9	130.4	115.2	97.0	75.8	69.8	69.8
50°	4003.0	3056.9	194.1	160.7	157.7	115.2	91.0	63.7	42.5	36.4	39.4
52.5°	4558.0	3296.4	172.9	142.5	139.5	100.1	66.7	33.4	18.2	18.2	18.2
55°	5025.0	3466.3	157.7	127.4	121.3	78.8	36.4	15.2	9.1	9.1	9.1
57.5°	5446.6	3563.3	142.5	112.2	97.0	54.6	15.2	6.1	6.1	3.0	3.0
60°	5831.7	3620.9	124.3	97.0	75.8	30.3	6.1	3.0	3.0	0.0	0.0
62.5°	6210.8	3663.4	106.1	78.8	57.6	12.1	3.0	3.0	0.0	0.0	0.0
65°	6498.9	3648.2	84.9	63.7	36.4	6.1	3.0	0.0	0.0	0.0	0.0
67.5°	6489.8	3442.0	63.7	48.5	18.2	3.0	0.0	0.0	0.0	0.0	0.0
70°	5804.4	2899.2	42.5	30.3	6.1	3.0	0.0	0.0	0.0	0.0	0.0
72.5°	4118.3	1859.0	27.3	18.2	3.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1813.5	564.1	15.2	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	354.8	130.4	9.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	84.9	15.2	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.4	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	3.0	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)