

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: P237425

Luminaire Tested: **ARCH-L-AF72-120-D-U-T4W-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237425
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-AF72-120-D-U-T4W-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 530mA 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: 11565.1 lumens
Efficiency: N/A
Efficacy: 94.0 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

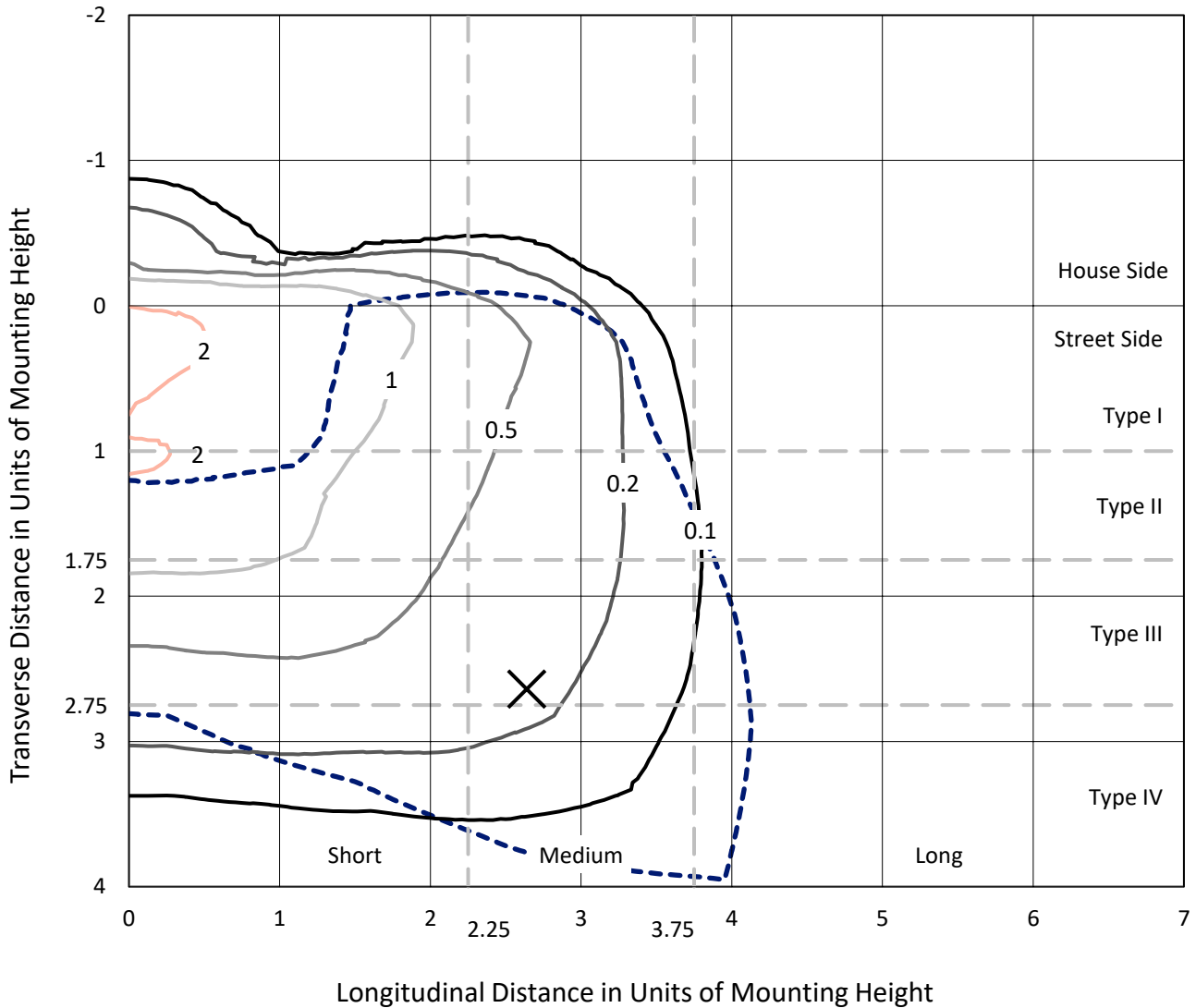
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

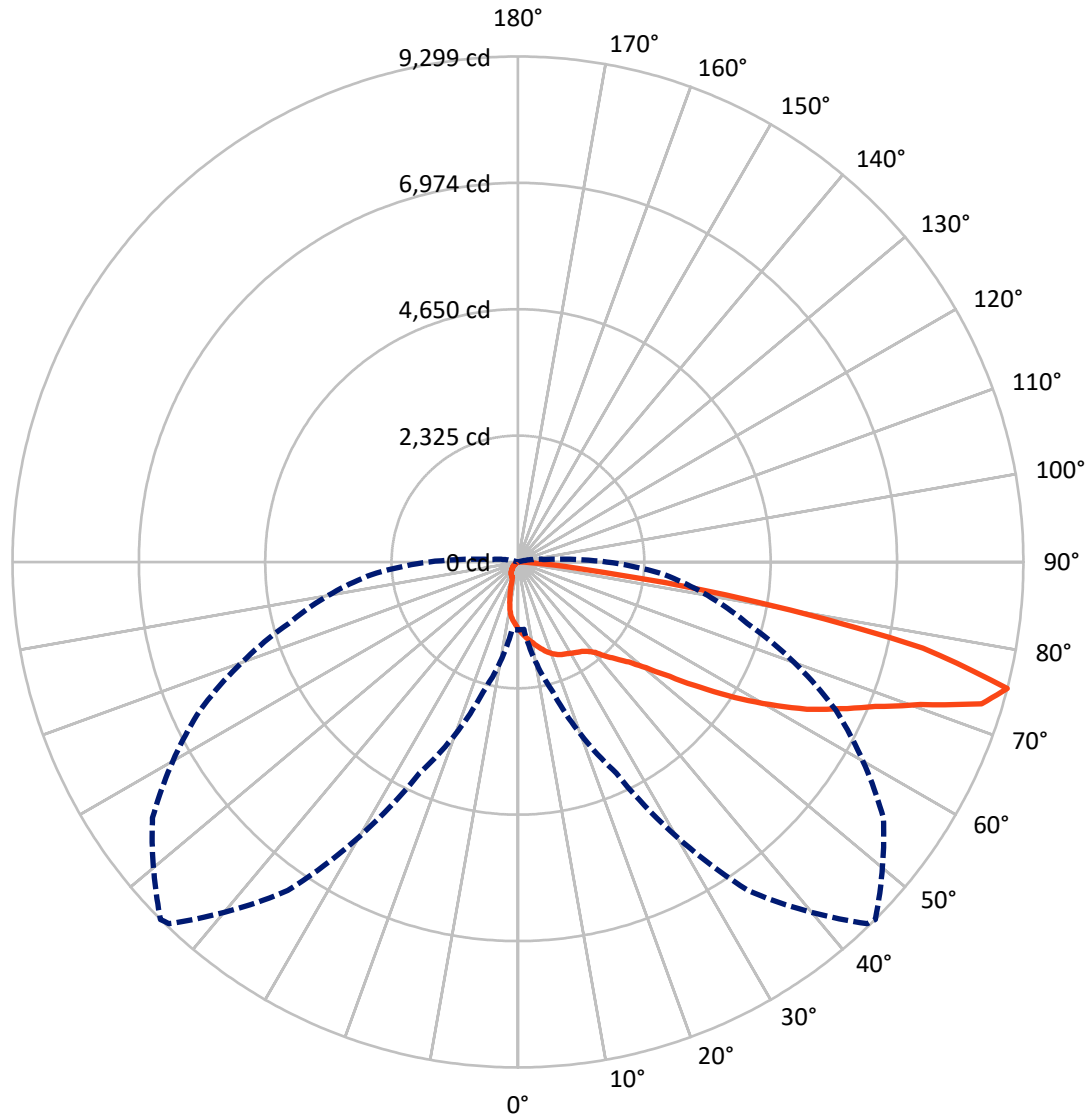
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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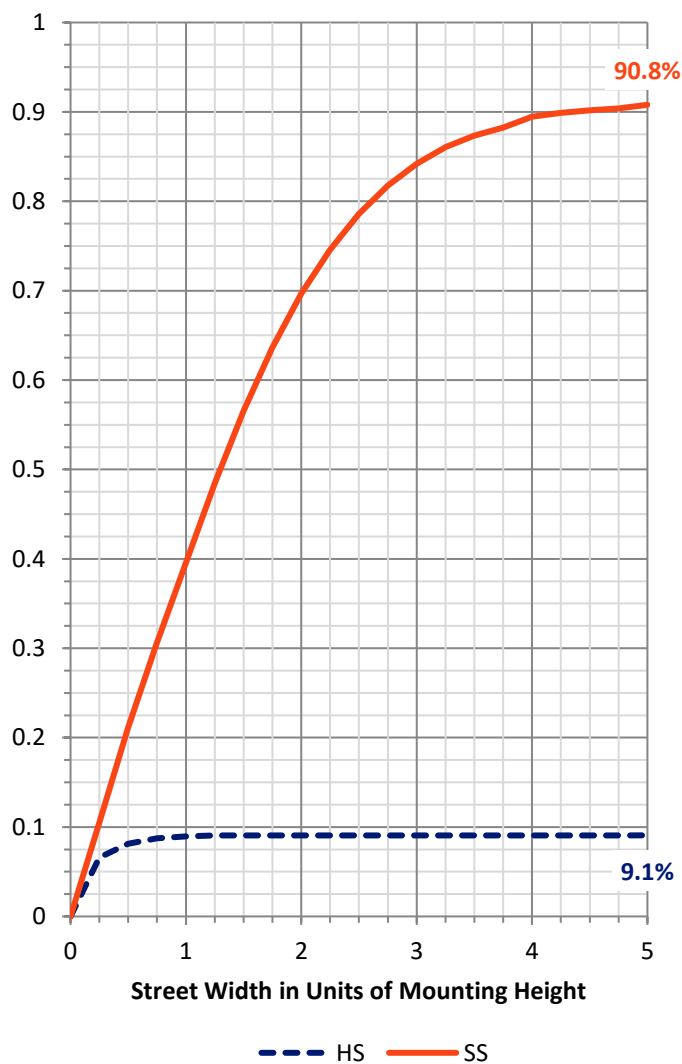
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1057.8	0.0	1057.8
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	10507.3	0.0	10507.3
	% Fixture	90.9	0.0	90.9
Total	Lumens	11565.1	0.0	11565.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.7	1.0
10°-20°	330.7	2.9
20°-30°	547.7	4.7
30°-40°	792.7	6.9
40°-50°	1298.0	11.2
50°-60°	2312.8	20.0
60°-70°	3400.1	29.4
70°-80°	2565.1	22.2
80°-90°	201.2	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°	11565.1	100.0
0°-180°	11565.1	100.0

Coefficient of Utilization



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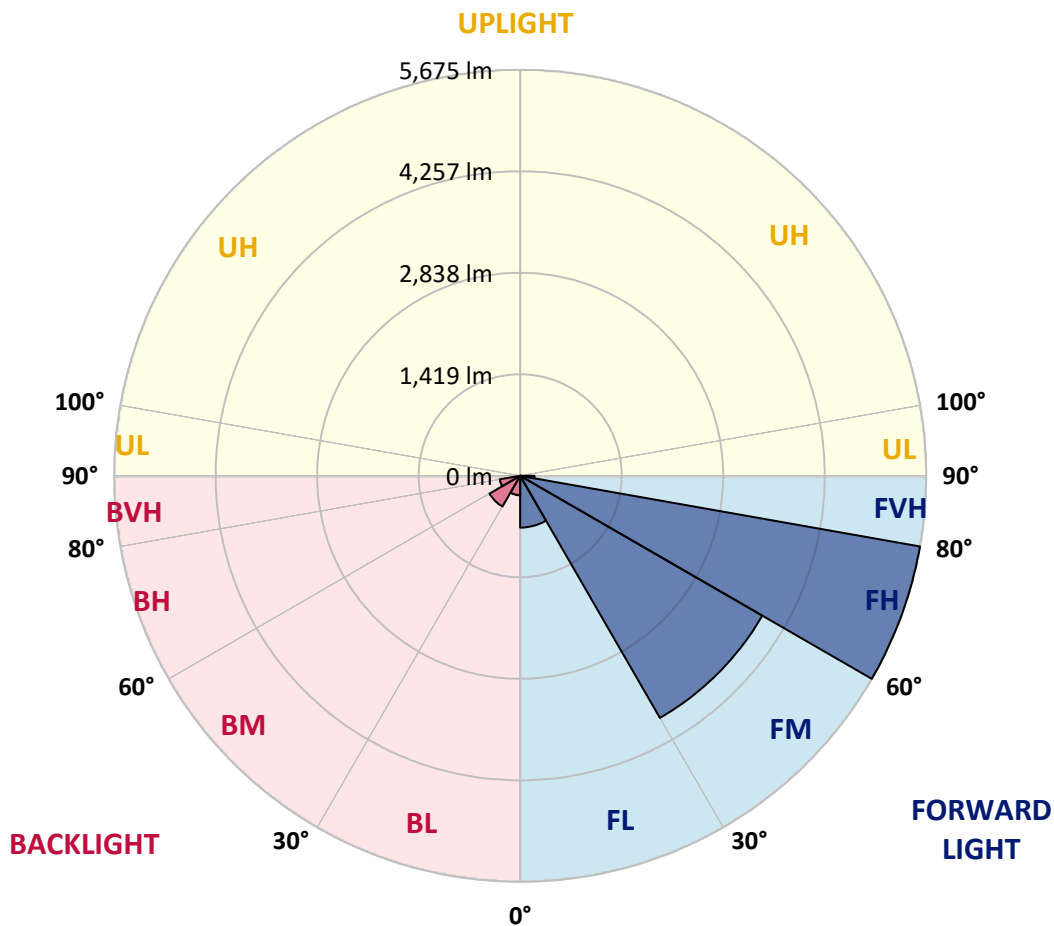
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	723.4	6.3			
FM (30°-60°)	3907.8	33.8			
FH (60°-80°)	5675.4	49.1			G3/7500
FVH (80°-90°)	200.7	1.7			G2/225
BL (0°-30°)	271.8	2.4	B1/500		
BM (30°-60°)	495.7	4.3	B1/1000		
BH (60°-80°)	289.7	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°	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0
2.5°	1343.7	1343.7	1340.9	1338.2	1324.5	1310.8	1308.1	1299.8	1275.3	1258.8	1242.4
5°	1455.9	1458.6	1453.1	1439.5	1409.3	1379.3	1376.5	1354.6	1308.1	1275.3	1239.6
7.5°	1562.6	1568.1	1554.4	1529.7	1494.2	1450.4	1447.6	1406.6	1346.4	1299.8	1247.8
10°	1652.9	1652.9	1633.8	1603.7	1565.3	1518.8	1513.4	1466.8	1398.4	1340.9	1272.6
12.5°	1751.4	1748.7	1721.4	1680.3	1636.4	1592.7	1589.9	1532.5	1466.8	1392.9	1308.1
15°	1841.8	1836.3	1800.7	1762.4	1715.8	1669.4	1666.6	1609.2	1540.7	1453.1	1360.1
17.5°	1891.0	1888.2	1855.4	1817.1	1778.8	1743.2	1740.5	1680.3	1606.4	1516.1	1412.0
20°	1899.3	1901.9	1874.6	1841.8	1819.8	1800.7	1800.7	1746.0	1666.6	1570.8	1466.8
22.5°	1901.9	1910.2	1891.0	1847.2	1841.8	1844.6	1850.0	1806.2	1724.1	1633.8	1524.2
25°	1921.1	1932.0	1918.4	1866.3	1860.9	1880.1	1885.5	1866.3	1792.5	1702.2	1589.9
27.5°	1959.4	1970.4	1959.4	1893.8	1885.5	1904.7	1910.2	1921.1	1866.3	1767.9	1658.3
30°	2036.0	2038.8	2014.2	1932.0	1915.7	1940.2	1948.4	1978.5	1934.8	1830.7	1724.1
32.5°	2170.1	2142.8	2069.0	1959.4	1945.7	1973.1	1981.3	2014.2	1997.7	1891.0	1792.5
35°	2443.8	2301.5	2131.8	1997.7	1984.0	2011.5	2022.4	2069.0	2077.1	1975.9	1877.3
37.5°	2441.1	2312.5	2279.5	2071.7	2052.4	2071.7	2085.3	2142.8	2175.6	2088.1	2000.4
40°	2613.5	2558.8	2558.8	2211.2	2148.2	2175.6	2189.3	2246.8	2304.3	2235.8	2145.6
42.5°	3155.3	3119.8	3081.4	2479.4	2282.3	2358.9	2367.2	2402.7	2471.1	2449.3	2342.5
45°	3760.1	3727.3	3579.5	2933.6	2512.2	2525.8	2545.0	2602.5	2701.0	2742.1	2616.2
47.5°	4233.6	4200.7	4074.9	3481.0	2870.7	2750.3	2750.3	2862.5	3015.8	3119.8	2999.2
50°	4613.9	4575.7	4499.0	4063.9	3459.0	3073.3	3056.7	3188.1	3415.3	3576.7	3494.6
52.5°	4983.5	4871.3	4824.7	4665.9	4124.1	3541.2	3497.4	3590.5	3905.2	4104.9	4036.5
55°	5229.7	5213.2	5164.0	5218.8	4821.9	4110.5	4072.1	4091.2	4485.3	4619.4	4534.6
57.5°	5459.5	5456.9	5566.3	5820.8	5582.7	4761.7	4701.5	4671.4	5046.3	5013.5	5087.3
60°	5744.2	5694.9	5949.3	6313.3	6280.6	5396.7	5328.1	5267.9	5476.0	5382.8	5749.7
62.5°	5757.9	5744.2	6261.3	6784.0	6972.9	6042.5	5963.1	5746.9	5850.9	5744.2	6381.9
65°	5235.1	5303.6	6392.8	7033.1	7553.1	6608.9	6513.2	6176.5	6184.7	6113.6	7126.1
67.5°	5117.4	5153.0	6031.5	7301.2	7971.8	7180.8	7090.6	6671.9	6573.4	6578.8	7566.7
70°	4824.7	4879.4	5582.7	7282.1	8302.9	7944.4	7854.1	7399.8	7161.7	6896.2	7227.4
72.5°	3686.2	3779.3	4704.2	6384.6	8212.6	8943.3	8918.7	8322.1	7397.1	6332.5	5467.8
75°	1247.8	1245.1	2471.1	4288.3	7377.9	9249.8	9299.0	8207.1	6453.0	4367.6	2714.8
77.5°	268.2	271.0	509.0	1737.8	4901.3	7427.1	7616.0	6190.2	4162.3	1945.7	621.2
80°	131.3	134.1	210.8	459.8	1959.4	4165.1	4460.7	3182.7	1538.0	388.6	104.1
82.5°	65.7	68.4	109.5	243.5	725.2	1480.5	1581.7	1171.3	440.7	218.9	52.0
85°	24.6	24.6	54.7	145.0	331.2	347.6	426.8	339.4	265.5	177.9	13.6
87.5°	5.5	5.5	30.1	71.1	147.8	109.5	109.5	104.1	161.4	120.4	5.5
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°	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0
2.5°	1234.2	1223.2	1204.1	1184.9	1171.3	1154.9	1146.6	1138.5	1135.6	1132.9	1138.5
5°	1220.5	1204.1	1168.5	1138.5	1111.0	1089.2	1072.7	1056.3	1048.2	1042.7	1045.4
7.5°	1220.5	1196.0	1144.0	1097.4	1053.6	1007.1	960.5	925.0	897.6	881.1	883.9
10°	1234.2	1201.5	1132.9	1069.9	987.9	889.4	788.2	711.5	659.5	629.5	629.5
12.5°	1264.3	1220.5	1135.6	1037.2	897.6	725.2	572.0	478.9	440.7	418.7	421.4
15°	1305.3	1253.4	1149.4	993.3	771.7	539.0	399.6	339.4	339.4	344.8	347.6
17.5°	1351.9	1294.4	1160.4	927.7	610.2	385.9	314.6	309.2	317.4	331.2	331.2
20°	1398.4	1335.4	1165.8	823.7	457.0	306.5	298.3	298.3	303.7	317.4	320.1
22.5°	1455.9	1387.5	1160.4	695.1	342.1	290.1	287.4	287.4	287.4	303.7	303.7
25°	1516.1	1447.6	1138.5	558.4	290.1	279.1	276.4	273.7	273.7	287.4	290.1
27.5°	1584.5	1510.6	1086.5	426.8	273.7	268.2	265.5	259.9	259.9	271.0	271.0
30°	1652.9	1581.7	1007.1	323.0	259.9	257.2	251.8	246.3	240.8	251.8	251.8
32.5°	1726.9	1655.6	903.1	257.2	240.8	240.8	238.0	229.9	224.4	229.9	232.6
35°	1825.2	1740.5	785.3	224.4	216.3	216.3	216.3	213.5	202.4	208.0	208.0
37.5°	1956.8	1858.2	648.6	208.0	197.0	191.5	191.5	191.5	183.3	186.1	186.1
40°	2123.6	1995.0	517.3	194.3	183.3	169.7	164.2	166.9	161.4	161.4	158.8
42.5°	2350.7	2142.8	388.6	183.3	172.4	153.3	142.2	139.6	134.1	131.3	131.3
45°	2676.5	2323.4	279.1	172.4	164.2	134.1	123.1	114.9	101.3	93.1	93.1
47.5°	3097.8	2528.6	208.0	161.4	156.0	117.7	104.1	87.6	68.4	63.0	63.0
50°	3612.3	2758.5	175.2	145.0	142.2	104.1	82.1	57.5	38.4	32.9	35.6
52.5°	4113.2	2974.7	156.0	128.6	125.8	90.3	60.2	30.1	16.4	16.4	16.4
55°	4534.6	3128.0	142.2	114.9	109.5	71.1	32.9	13.6	8.2	8.2	8.2
57.5°	4914.9	3215.5	128.6	101.3	87.6	49.2	13.6	5.5	5.5	2.7	2.7
60°	5262.5	3267.5	112.2	87.6	68.4	27.4	5.5	2.7	2.7	0.0	0.0
62.5°	5604.6	3305.8	95.8	71.1	52.0	10.9	2.7	2.7	0.0	0.0	0.0
65°	5864.6	3292.2	76.6	57.5	32.9	5.5	2.7	0.0	0.0	0.0	0.0
67.5°	5856.4	3106.0	57.5	43.8	16.4	2.7	0.0	0.0	0.0	0.0	0.0
70°	5237.9	2616.2	38.4	27.4	5.5	2.7	0.0	0.0	0.0	0.0	0.0
72.5°	3716.4	1677.5	24.6	16.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	1636.4	509.0	13.6	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	320.1	117.7	8.2	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	76.6	13.6	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.9	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	2.7	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)