

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: P258049

Luminaire Tested: **ARCH-L-AF72-130-D-U-T2U-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P258049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-3)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-130-D-U-T2U-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11880.8 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

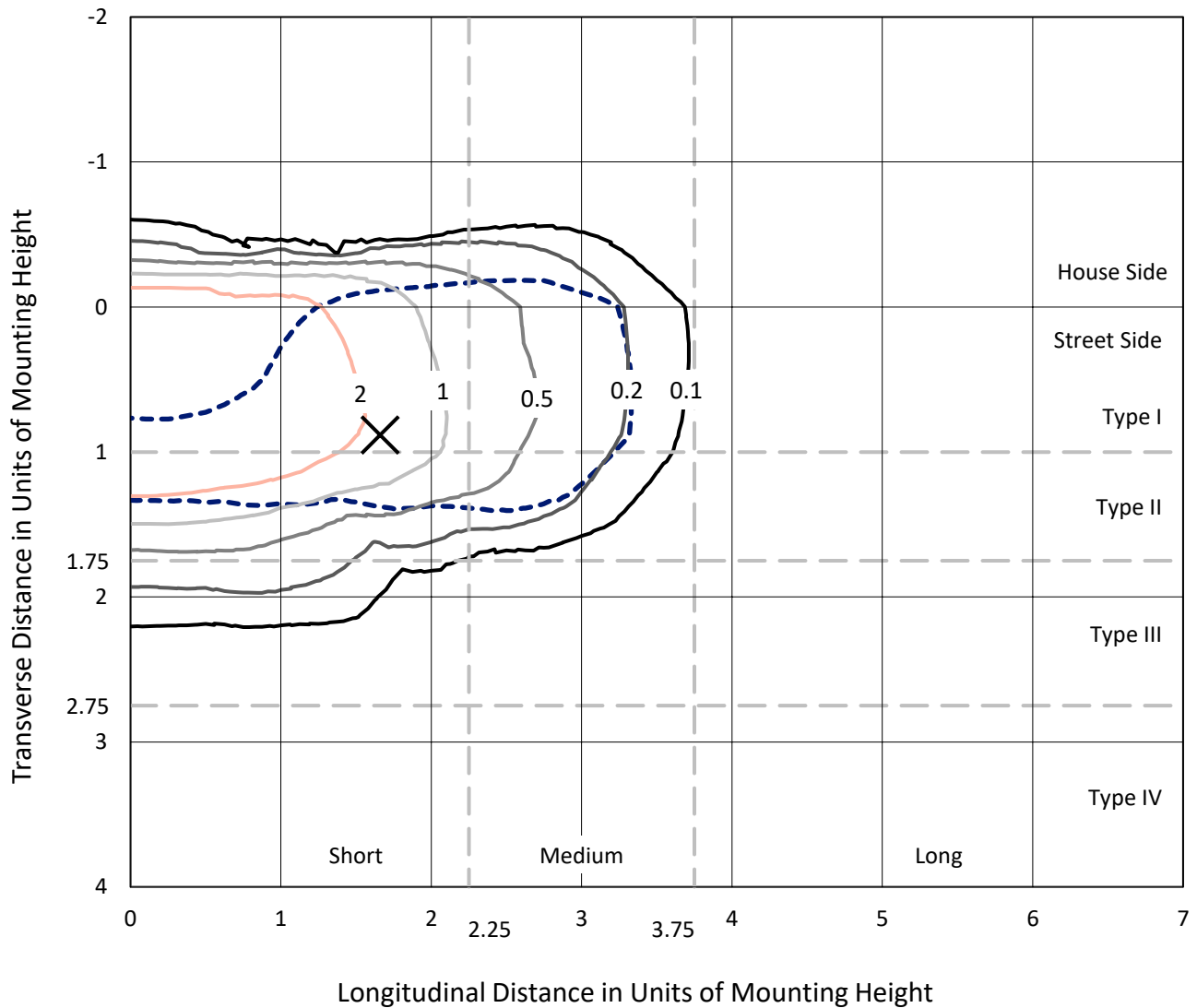
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

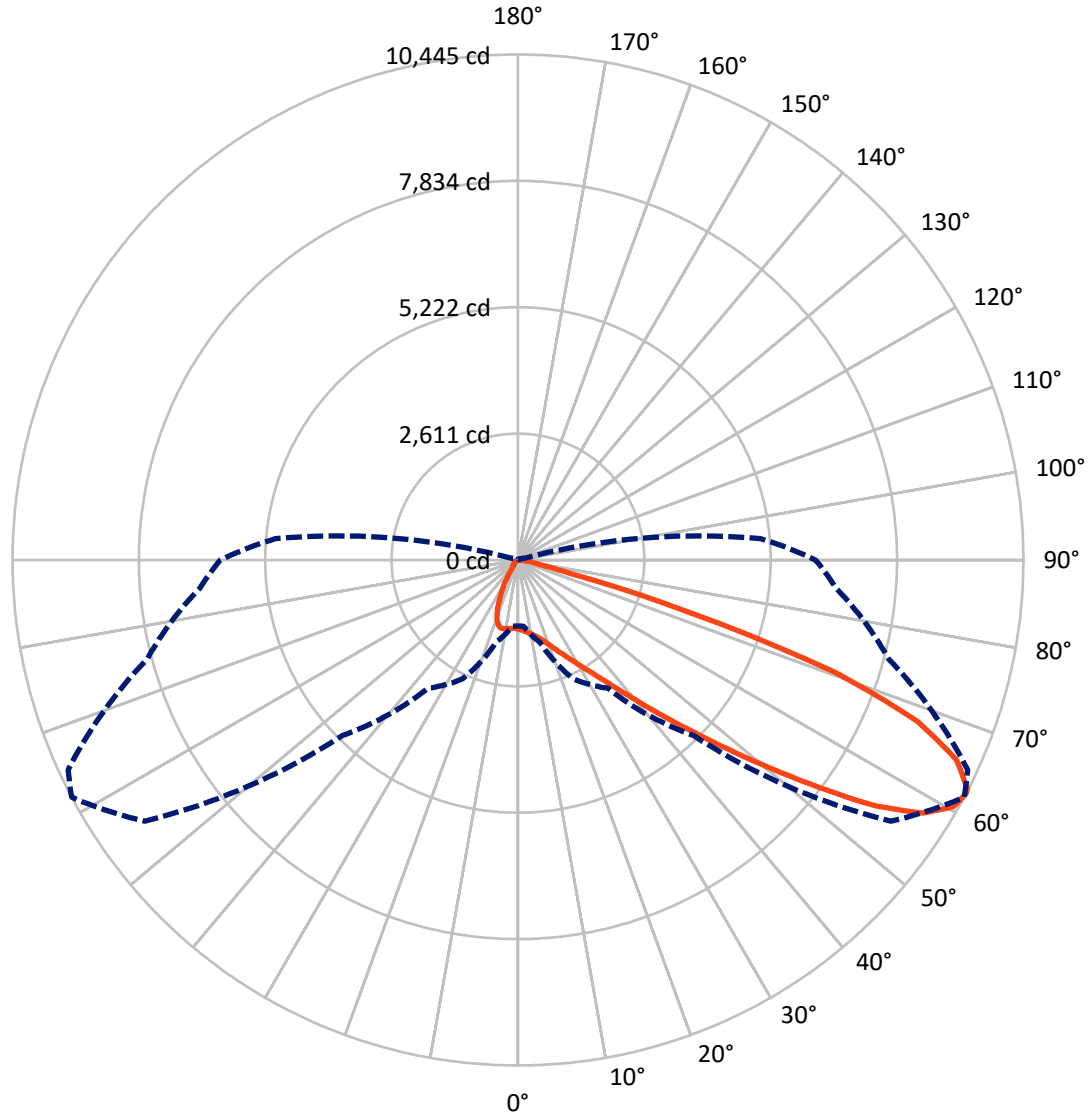
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 62-Deg Vertical

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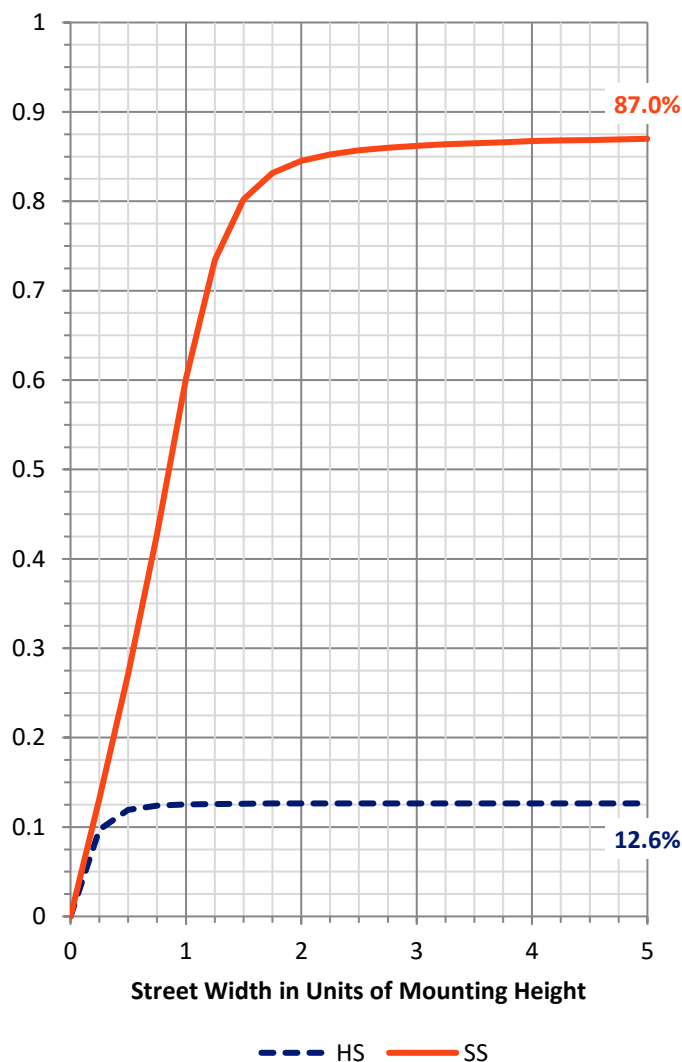
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1519.1	0.0	1519.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	10361.7	0.0	10361.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	11880.8	0.0	11880.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	1.2
10°-20°	384.6	3.2
20°-30°	646.0	5.4
30°-40°	1238.2	10.4
40°-50°	2529.1	21.3
50°-60°	3346.9	28.2
60°-70°	2600.0	21.9
70°-80°	938.5	7.9
80°-90°	59.8	0.5
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°	11880.8	100.0
0°-180°	11880.8	100.0

Coefficient of Utilization



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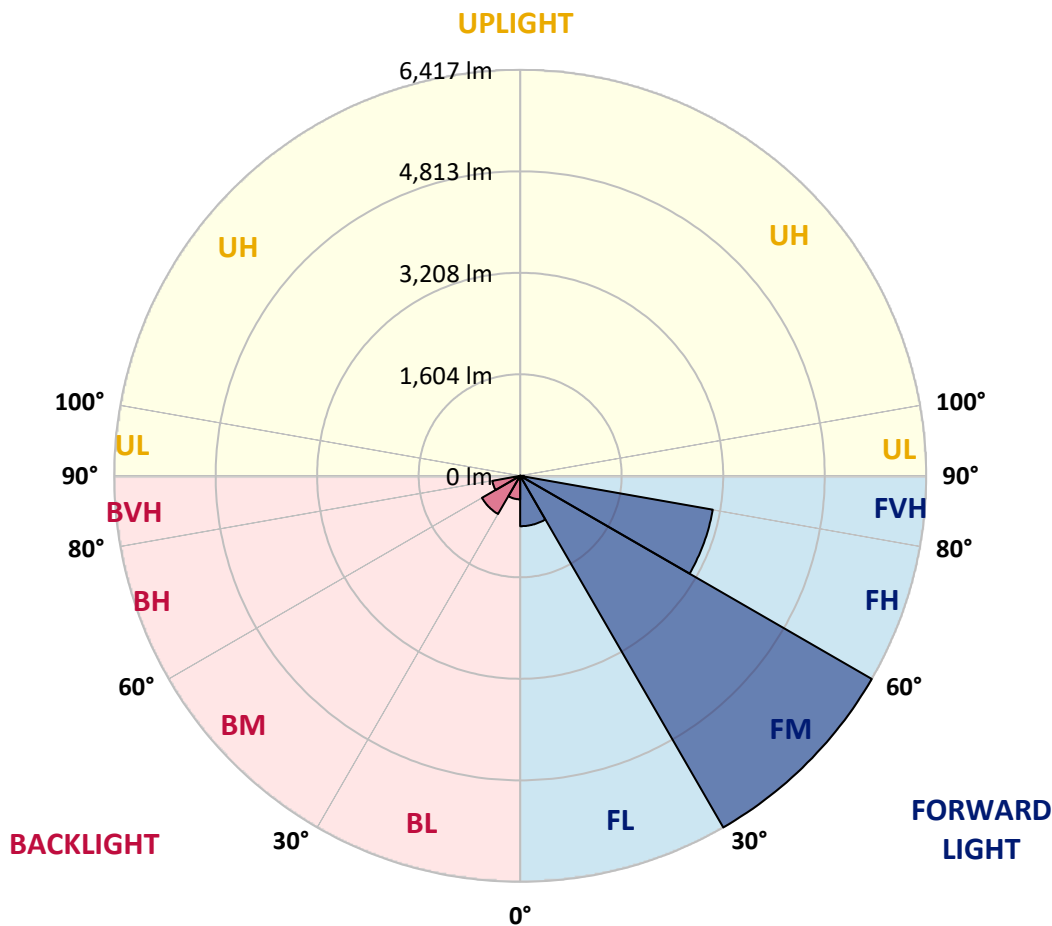
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	796.5	6.7			
FM (30°-60°)	6416.9	54.0			
FH (60°-80°)	3091.1	26.0			G2/5000
FVH (80°-90°)	57.2	0.5			G1/100
BL (0°-30°)	371.8	3.1	B1/500		
BM (30°-60°)	697.4	5.9	B1/1000		
BH (60°-80°)	447.3	3.8	B1/500		G1/500
BVH (80°-90°)	2.6	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2
2.5°	1469.2	1466.3	1463.3	1460.4	1460.4	1457.5	1454.6	1448.8	1442.9	1437.1	1434.1
5°	1495.4	1492.6	1489.6	1492.6	1489.6	1489.6	1486.7	1480.9	1475.0	1466.3	1457.5
7.5°	1515.9	1513.0	1510.1	1513.0	1515.9	1518.8	1521.8	1515.9	1513.0	1501.3	1492.6
10°	1542.2	1539.3	1536.4	1542.2	1542.2	1556.8	1559.6	1556.8	1553.8	1545.2	1530.5
12.5°	1580.2	1583.0	1583.0	1588.9	1594.7	1612.3	1618.1	1609.4	1609.4	1597.7	1580.2
15°	1650.3	1650.3	1650.3	1656.2	1659.0	1682.4	1688.3	1679.5	1685.4	1664.9	1647.3
17.5°	1717.4	1720.4	1726.2	1737.9	1737.9	1758.3	1770.0	1770.0	1781.7	1755.5	1732.1
20°	1784.6	1787.6	1796.3	1822.6	1822.6	1848.8	1869.3	1878.0	1889.7	1863.5	1822.6
22.5°	1857.6	1857.6	1872.2	1913.1	1904.4	1957.0	1995.0	2009.5	2021.2	1986.2	1921.9
25°	1968.7	1957.0	1968.7	2006.6	2000.7	2073.7	2143.8	2158.5	2173.0	2132.2	2035.8
27.5°	2178.9	2161.3	2120.5	2123.5	2123.5	2208.1	2307.4	2327.9	2336.6	2301.6	2181.9
30°	2599.5	2599.5	2447.6	2345.5	2278.3	2354.2	2494.4	2529.5	2541.2	2488.5	2330.8
32.5°	3332.6	3332.6	3052.2	2792.3	2538.2	2538.2	2698.8	2763.0	2774.7	2713.5	2529.5
35°	4267.3	4261.4	3840.9	3484.5	2988.0	2801.1	2938.3	3046.3	3081.4	2999.7	2786.4
37.5°	5260.4	5222.5	4769.7	4360.7	3680.3	3221.6	3262.6	3405.7	3437.9	3370.6	3119.5
40°	6066.5	6022.7	5657.7	5315.9	4574.0	3893.5	3729.9	3861.3	3899.4	3805.8	3516.6
42.5°	6796.8	6688.7	6437.4	6192.2	5602.2	5056.0	4352.1	4404.6	4445.5	4346.3	3963.6
45°	7325.4	7158.8	7030.4	6954.5	6642.0	6332.3	5158.1	5053.0	5067.7	4945.0	4451.3
47.5°	7340.0	7223.2	7234.9	7433.5	7562.1	7550.4	6206.8	5833.0	5777.4	5572.9	4971.2
50°	6639.0	6706.3	6919.4	7486.1	8181.3	8601.9	7454.0	6755.8	6589.4	6221.3	5488.2
52.5°	5470.7	5575.8	5976.1	6931.1	8271.8	9294.0	8747.9	7810.3	7512.3	6863.8	5885.5
55°	4284.8	4290.7	4711.3	5683.8	7667.2	9419.7	9781.9	8969.8	8514.2	7351.7	6148.3
57.5°	2947.2	3107.8	3642.2	4296.5	6303.1	8794.6	10170.3	9869.5	9282.3	7652.5	6332.3
60°	1930.6	1939.5	2561.6	3318.1	4290.7	7156.1	9933.8	10345.5	9904.5	7830.7	6458.0
62°	1361.2	1375.7	1761.3	2710.5	3233.3	5128.9	9410.9	10444.8	10255.0	7935.8	6589.4
62.5°	1261.8	1273.5	1597.7	2558.7	3037.6	4600.3	9224.0	10421.4	10307.6	7970.9	6636.1
65°	925.9	925.9	1045.6	1758.3	2225.7	2485.6	7816.1	9957.2	10237.5	8251.4	6811.3
67.5°	715.6	721.4	762.3	1083.7	1679.5	1507.1	4988.8	8911.4	9507.3	8666.1	6910.6
70°	616.3	613.4	642.6	718.5	1212.1	1001.8	2196.4	6954.5	7962.2	8560.9	6820.1
72.5°	455.6	458.6	525.7	630.9	844.1	651.3	993.0	3691.9	5164.0	6700.4	5844.6
75°	292.0	295.0	370.9	496.6	607.5	426.4	572.5	1101.2	2114.7	3715.3	3575.1
77.5°	195.7	201.6	242.4	347.6	531.5	265.8	359.3	461.5	636.8	1393.3	1282.2
80°	131.4	131.4	154.8	233.7	335.9	222.1	192.8	306.7	330.1	432.2	216.2
82.5°	87.6	87.6	102.2	154.8	219.1	198.7	116.8	166.5	192.8	216.2	75.9
85°	52.6	52.6	70.2	96.3	143.1	111.0	75.9	93.4	99.3	137.2	40.9
87.5°	32.1	29.2	46.8	67.2	75.9	67.2	49.6	49.6	52.6	75.9	20.4
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°	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2
2.5°	1428.2	1425.4	1422.4	1416.5	1407.8	1402.1	1396.2	1390.4	1384.5	1384.5	1393.3
5°	1454.6	1445.8	1434.1	1422.4	1405.0	1393.3	1384.5	1372.8	1367.0	1367.0	1369.9
7.5°	1486.7	1478.0	1457.5	1437.1	1410.7	1390.4	1369.9	1343.6	1323.1	1314.4	1323.1
10°	1521.8	1510.1	1480.9	1448.8	1419.5	1367.0	1299.7	1218.0	1147.9	1115.7	1130.4
12.5°	1565.5	1550.9	1515.9	1472.0	1405.0	1276.3	1110.0	920.1	800.4	744.8	756.5
15°	1629.8	1609.4	1559.6	1492.6	1343.6	1066.2	794.5	575.4	464.5	417.7	423.5
17.5°	1705.7	1679.5	1612.3	1486.7	1185.9	768.2	473.2	335.9	289.2	277.5	277.5
20°	1787.6	1752.5	1664.9	1442.9	946.3	482.0	295.0	257.1	239.5	230.7	230.7
22.5°	1872.2	1825.5	1708.7	1340.6	674.6	300.8	242.4	216.2	195.7	187.0	187.0
25°	1974.5	1913.1	1752.5	1162.5	429.4	242.4	207.4	181.1	160.6	148.9	151.9
27.5°	2094.3	2015.4	1790.4	940.5	277.5	210.4	172.3	146.1	128.5	122.7	122.7
30°	2219.8	2126.4	1799.3	703.9	224.8	181.1	143.1	119.7	108.0	102.2	102.2
32.5°	2392.1	2269.6	1773.0	467.3	189.9	151.9	119.7	99.3	90.5	87.6	87.6
35°	2619.9	2456.3	1711.6	289.2	160.6	125.6	99.3	87.6	78.8	75.9	75.9
37.5°	2909.1	2716.4	1603.5	198.7	137.2	102.2	84.6	75.9	70.2	67.2	67.2
40°	3294.7	3031.8	1463.3	172.3	116.8	87.6	72.9	67.2	61.3	61.3	61.3
42.5°	3703.6	3414.5	1282.2	151.9	99.3	75.9	64.3	58.5	55.5	52.6	52.6
45°	4150.5	3805.8	1057.3	134.4	84.6	67.2	58.5	49.6	46.8	46.8	46.8
47.5°	4594.5	4208.8	812.1	116.8	72.9	58.5	49.6	43.8	40.9	38.0	38.0
50°	5050.1	4574.0	595.9	102.2	64.3	52.6	43.8	38.0	32.1	29.2	29.2
52.5°	5380.2	4793.1	435.2	87.6	55.5	43.8	35.1	29.2	23.4	20.4	20.4
55°	5622.6	4927.5	318.4	72.9	49.6	38.0	29.2	23.4	17.5	17.5	14.6
57.5°	5812.5	4991.7	239.5	64.3	43.8	32.1	23.4	17.5	14.6	11.7	11.7
60°	5958.5	4994.6	178.2	52.6	38.0	26.3	17.5	11.7	8.7	8.7	8.7
62°	6151.3	5032.6	146.1	43.8	35.1	23.4	14.6	8.7	5.8	2.9	2.9
62.5°	6206.8	5047.2	140.2	43.8	32.1	20.4	11.7	8.7	5.8	2.9	2.9
65°	6463.8	5073.5	108.0	35.1	26.3	17.5	8.7	5.8	0.0	0.0	0.0
67.5°	6697.5	5032.6	78.8	26.3	20.4	11.7	8.7	2.9	0.0	0.0	0.0
70°	6674.1	4752.2	55.5	17.5	14.6	8.7	5.8	0.0	0.0	0.0	0.0
72.5°	5499.9	3557.6	38.0	14.6	8.7	5.8	2.9	0.0	0.0	0.0	0.0
75°	3320.9	1556.8	26.3	8.7	8.7	5.8	2.9	0.0	0.0	0.0	0.0
77.5°	1089.5	563.7	17.5	5.8	5.8	2.9	2.9	0.0	0.0	0.0	0.0
80°	178.2	93.4	8.7	5.8	5.8	2.9	2.9	0.0	0.0	0.0	0.0
82.5°	55.5	23.4	5.8	5.8	2.9	2.9	0.0	0.0	0.0	0.0	0.0
85°	20.4	8.7	5.8	5.8	2.9	2.9	0.0	0.0	0.0	0.0	0.0
87.5°	8.7	5.8	5.8	5.8	2.9	2.9	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)