

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: P258050

Luminaire Tested: **ARCH-L-AF72-140-D-U-T2U-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P258050
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-AF72-140-D-U-T2U-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 620mA 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: 12641.3 lumens
Efficiency: N/A
Efficacy: 88.4 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

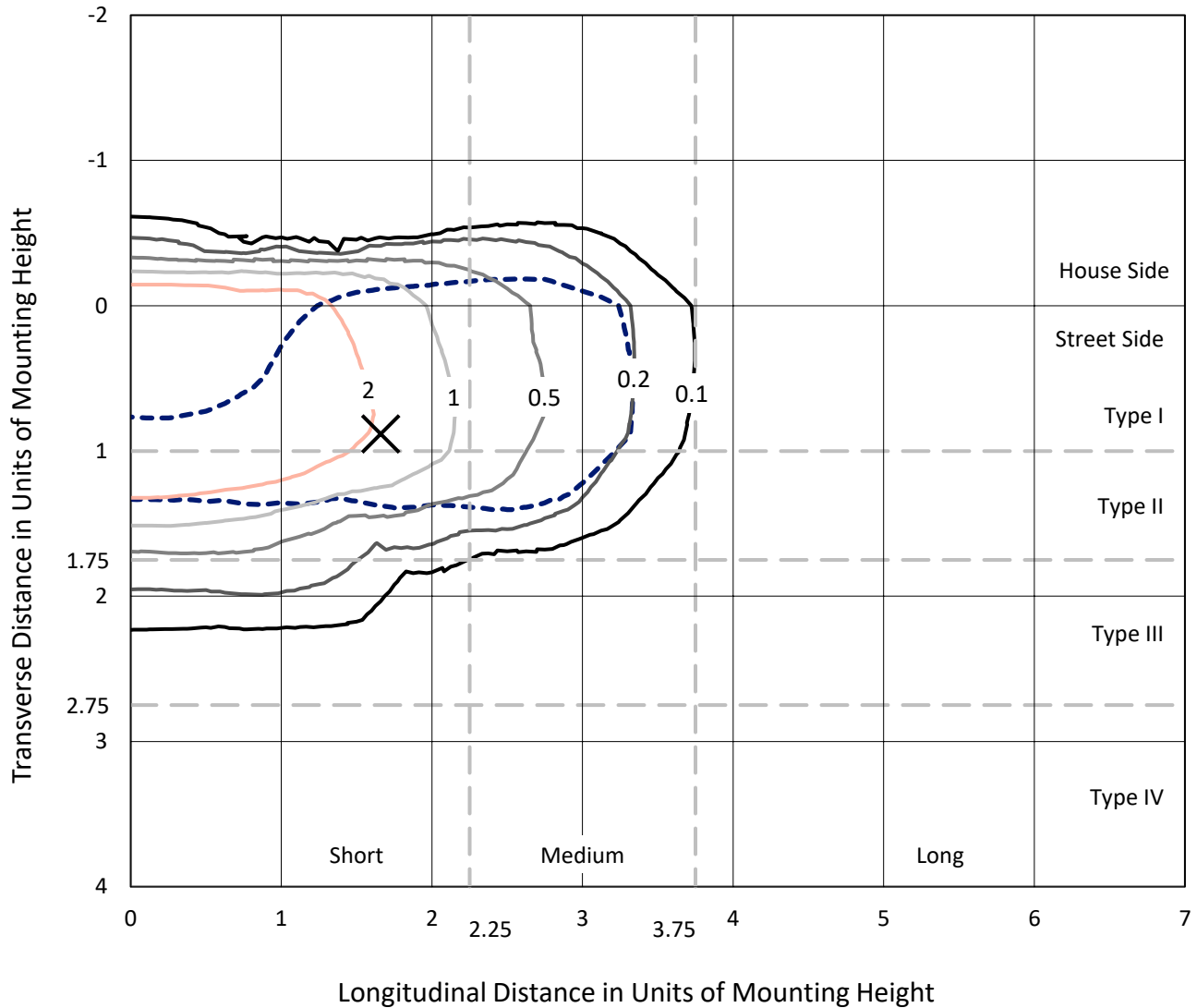
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

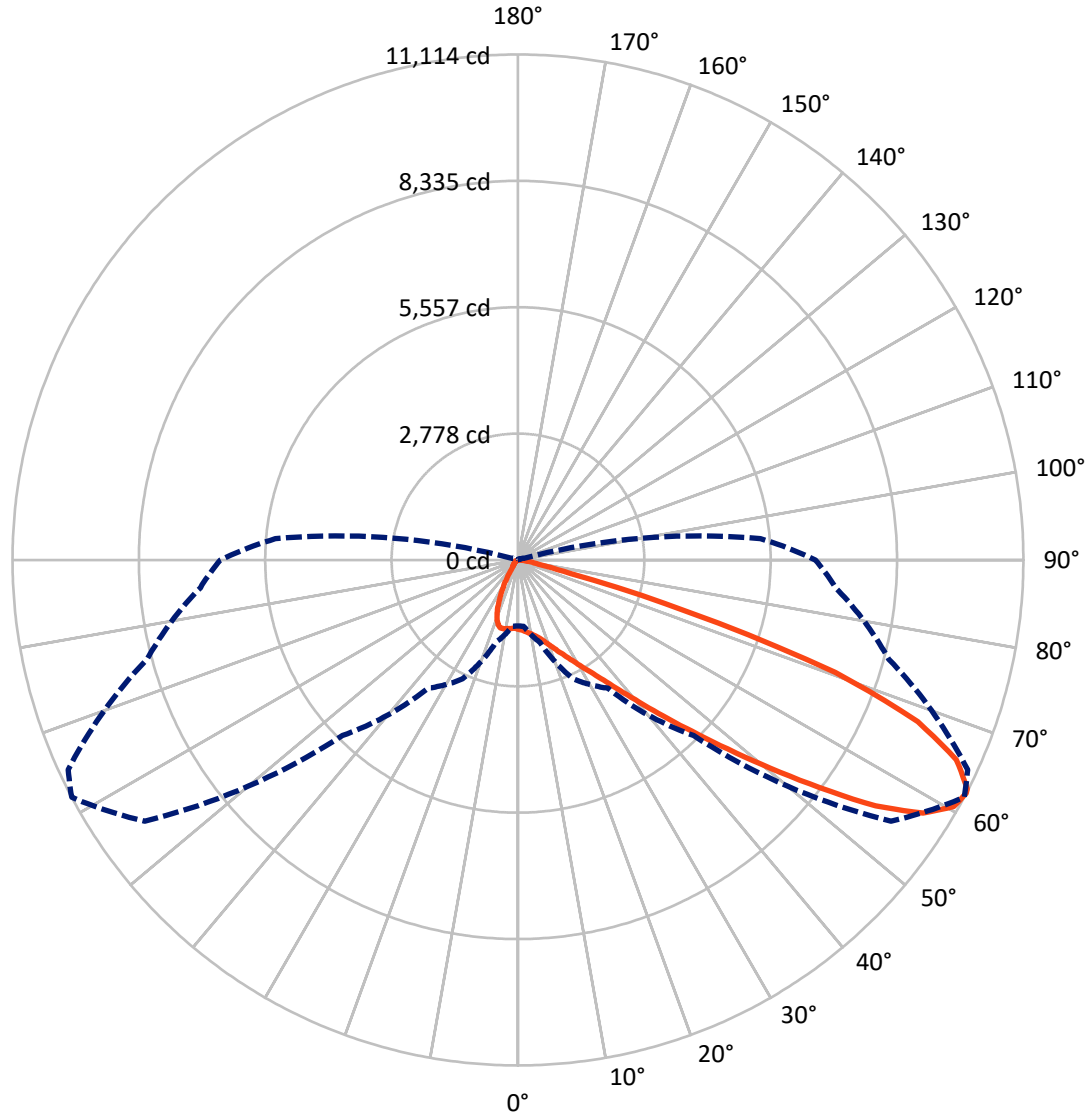
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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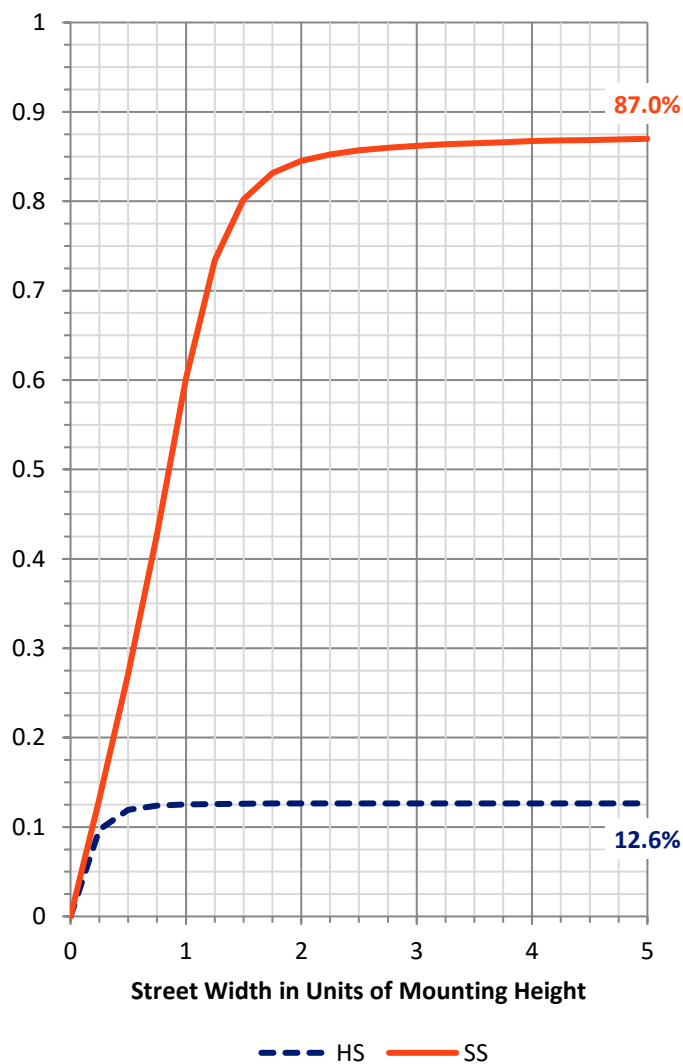
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1616.4	0.0	1616.4
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	11025.0	0.0	11025.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	12641.3	0.0	12641.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	1.2
10°-20°	409.2	3.2
20°-30°	687.3	5.4
30°-40°	1317.5	10.4
40°-50°	2691.0	21.3
50°-60°	3561.1	28.2
60°-70°	2766.4	21.9
70°-80°	998.5	7.9
80°-90°	63.6	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°	12641.3	100.0
0°-180°	12641.3	100.0

Coefficient of Utilization



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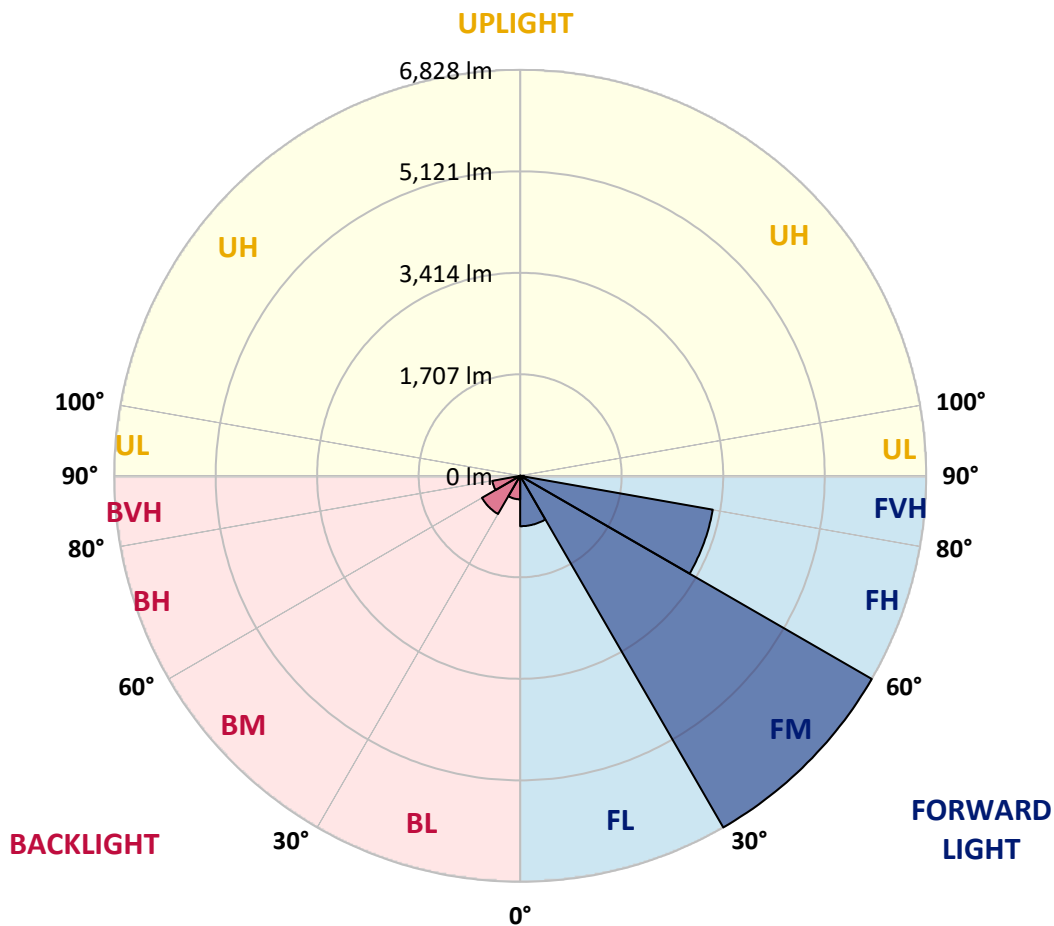
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	847.5	6.7			
FM (30°-60°)	6827.6	54.0			
FH (60°-80°)	3289.0	26.0			G2/5000
FVH (80°-90°)	60.9	0.5			G1/100
BL (0°-30°)	395.6	3.1	B1/500		
BM (30°-60°)	742.0	5.9	B1/1000		
BH (60°-80°)	476.0	3.8	B1/500		G1/500
BVH (80°-90°)	2.8	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°	1522.8	1522.8	1522.8	1522.8	1522.8	1522.8	1522.8	1522.8	1522.8	1522.8	1522.8
2.5°	1563.2	1560.1	1557.0	1553.8	1553.8	1550.8	1547.6	1541.4	1535.2	1529.0	1526.0
5°	1591.2	1588.1	1585.0	1588.1	1585.0	1585.0	1581.8	1575.6	1569.4	1560.1	1550.8
7.5°	1612.8	1609.8	1606.7	1609.8	1612.8	1616.1	1619.1	1612.8	1609.8	1597.4	1588.1
10°	1640.8	1637.8	1634.7	1640.8	1640.8	1656.5	1659.5	1656.5	1653.3	1644.1	1628.5
12.5°	1681.3	1684.4	1684.4	1690.7	1696.8	1715.5	1721.7	1712.4	1712.4	1700.0	1681.3
15°	1755.9	1755.9	1755.9	1762.2	1765.2	1790.1	1796.3	1786.9	1793.2	1771.4	1752.7
17.5°	1827.4	1830.5	1836.6	1849.1	1849.1	1870.8	1883.3	1883.3	1895.7	1867.8	1842.8
20°	1898.8	1901.9	1911.3	1939.3	1939.3	1967.2	1988.9	1998.4	2010.7	1982.7	1939.3
22.5°	1976.5	1976.5	1992.2	2035.6	2026.3	2082.2	2122.6	2138.1	2150.5	2113.3	2044.9
25°	2094.6	2082.2	2094.6	2135.0	2128.8	2206.5	2281.2	2296.6	2312.2	2268.7	2166.1
27.5°	2318.4	2299.8	2256.2	2259.4	2259.4	2349.5	2455.2	2476.9	2486.2	2448.9	2321.5
30°	2765.9	2765.9	2604.3	2495.6	2424.0	2504.9	2654.0	2691.4	2703.7	2647.8	2479.9
32.5°	3546.0	3546.0	3247.6	2971.0	2700.7	2700.7	2871.6	2939.9	2952.4	2887.1	2691.4
35°	4540.5	4534.3	4086.8	3707.6	3179.2	2980.4	3126.5	3241.4	3278.7	3191.7	2964.9
37.5°	5597.2	5556.7	5075.0	4639.9	3915.8	3427.9	3471.3	3623.7	3657.9	3586.3	3319.1
40°	6454.8	6408.3	6019.7	5656.2	4866.7	4142.7	3968.7	4108.4	4148.9	4049.4	3741.8
42.5°	7231.8	7116.8	6849.6	6588.5	5960.7	5379.6	4630.6	4686.5	4730.1	4624.4	4217.3
45°	7794.3	7617.1	7480.4	7399.6	7067.1	6737.7	5488.3	5376.4	5392.0	5261.5	4736.3
47.5°	7809.9	7685.6	7698.0	7909.3	8046.1	8033.7	6604.0	6206.3	6147.2	5929.6	5289.5
50°	7063.9	7135.4	7362.3	7965.2	8704.9	9152.4	7931.0	7188.2	7011.1	6619.6	5839.5
52.5°	5820.9	5932.8	6358.5	7374.8	8801.2	9888.9	9307.8	8310.2	7993.2	7303.2	6262.2
55°	4559.1	4565.3	5012.9	6047.7	8158.0	10022.6	10407.9	9544.1	9059.1	7822.3	6541.9
57.5°	3135.7	3306.6	3875.4	4571.5	6706.6	9357.5	10821.2	10501.1	9876.5	8142.3	6737.7
60°	2054.3	2063.6	2725.5	3530.3	4565.3	7614.1	10569.5	11007.8	10538.5	8331.9	6871.4
62°	1448.2	1463.7	1874.1	2884.0	3440.3	5457.3	10013.3	11113.5	10911.4	8443.8	7011.1
62.5°	1342.6	1355.1	1700.0	2722.4	3232.1	4894.7	9814.3	11088.5	10967.3	8481.1	7060.9
65°	985.2	985.2	1112.6	1870.8	2368.0	2644.7	8316.4	10594.5	10892.7	8779.4	7247.2
67.5°	761.4	767.6	811.1	1153.0	1786.9	1603.6	5308.1	9481.8	10115.8	9220.7	7353.0
70°	655.8	652.6	683.8	764.5	1289.7	1066.0	2337.0	7399.6	8471.8	9108.8	7256.7
72.5°	484.8	488.0	559.4	671.3	898.1	693.0	1056.6	3928.2	5494.5	7129.2	6218.6
75°	310.8	313.9	394.7	528.3	646.4	453.8	609.1	1171.6	2249.9	3953.1	3803.9
77.5°	208.2	214.4	258.0	369.9	565.6	282.8	382.3	491.0	677.5	1482.4	1364.3
80°	139.9	139.9	164.8	248.7	357.4	236.2	205.1	326.3	351.2	460.0	230.0
82.5°	93.2	93.2	108.8	164.8	233.0	211.3	124.3	177.1	205.1	230.0	80.9
85°	55.9	55.9	74.7	102.6	152.3	118.1	80.9	99.4	105.7	146.1	43.4
87.5°	34.2	31.0	49.7	71.4	80.9	71.4	52.9	52.9	55.9	80.9	21.8
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°	1522.8	1522.8	1522.8	1522.8	1522.8	1522.8	1522.8	1522.8	1522.8	1522.8	1522.8
2.5°	1519.7	1516.6	1513.5	1507.2	1498.0	1491.7	1485.5	1479.3	1473.1	1473.1	1482.4
5°	1547.6	1538.4	1526.0	1513.5	1494.8	1482.4	1473.1	1460.7	1454.5	1454.5	1457.5
7.5°	1581.8	1572.6	1550.8	1529.0	1501.0	1479.3	1457.5	1429.5	1407.8	1398.5	1407.8
10°	1619.1	1606.7	1575.6	1541.4	1510.4	1454.5	1383.0	1296.0	1221.4	1187.2	1202.7
12.5°	1665.7	1650.3	1612.8	1566.3	1494.8	1358.1	1181.0	979.0	851.5	792.4	804.9
15°	1734.2	1712.4	1659.5	1588.1	1429.5	1134.3	845.3	612.2	494.2	444.3	450.5
17.5°	1814.9	1786.9	1715.5	1581.8	1261.7	817.4	503.4	357.4	307.7	295.2	295.2
20°	1901.9	1864.6	1771.4	1535.2	1007.0	512.8	313.9	273.4	254.8	245.5	245.5
22.5°	1992.2	1942.4	1818.1	1426.5	718.0	320.1	258.0	230.0	208.2	198.9	198.9
25°	2100.8	2035.6	1864.6	1237.0	456.8	258.0	220.7	192.8	170.9	158.5	161.6
27.5°	2228.3	2144.3	1905.1	1000.7	295.2	223.8	183.3	155.3	136.8	130.6	130.6
30°	2361.8	2262.4	1914.4	749.0	239.3	192.8	152.3	127.4	114.9	108.8	108.8
32.5°	2545.3	2414.7	1886.5	497.2	202.0	161.6	127.4	105.7	96.3	93.2	93.2
35°	2787.6	2613.6	1821.2	307.7	170.9	133.7	105.7	93.2	83.9	80.9	80.9
37.5°	3095.4	2890.2	1706.2	211.3	146.1	108.8	90.1	80.9	74.7	71.4	71.4
40°	3505.6	3225.9	1557.0	183.3	124.3	93.2	77.7	71.4	65.2	65.2	65.2
42.5°	3940.7	3633.0	1364.3	161.6	105.7	80.9	68.4	62.2	59.0	55.9	55.9
45°	4416.2	4049.4	1125.1	142.9	90.1	71.4	62.2	52.9	49.7	49.7	49.7
47.5°	4888.5	4478.3	863.9	124.3	77.7	62.2	52.9	46.7	43.4	40.4	40.4
50°	5373.4	4866.7	634.0	108.8	68.4	55.9	46.7	40.4	34.2	31.0	31.0
52.5°	5724.5	5099.9	463.0	93.2	59.0	46.7	37.2	31.0	24.9	21.8	21.8
55°	5982.5	5242.8	338.7	77.7	52.9	40.4	31.0	24.9	18.7	18.7	15.6
57.5°	6184.5	5311.2	254.8	68.4	46.7	34.2	24.9	18.7	15.6	12.4	12.4
60°	6339.9	5314.3	189.6	55.9	40.4	28.0	18.7	12.4	9.3	9.3	9.3
62°	6544.9	5354.7	155.3	46.7	37.2	24.9	15.6	9.3	6.2	3.1	3.1
62.5°	6604.0	5370.2	149.1	46.7	34.2	21.8	12.4	9.3	6.2	3.1	3.1
65°	6877.6	5398.2	114.9	37.2	28.0	18.7	9.3	6.2	0.0	0.0	0.0
67.5°	7126.1	5354.7	83.9	28.0	21.8	12.4	9.3	3.1	0.0	0.0	0.0
70°	7101.3	5056.3	59.0	18.7	15.6	9.3	6.2	0.0	0.0	0.0	0.0
72.5°	5851.9	3785.3	40.4	15.6	9.3	6.2	3.1	0.0	0.0	0.0	0.0
75°	3533.6	1656.5	28.0	9.3	9.3	6.2	3.1	0.0	0.0	0.0	0.0
77.5°	1159.2	599.9	18.7	6.2	6.2	3.1	3.1	0.0	0.0	0.0	0.0
80°	189.6	99.4	9.3	6.2	6.2	3.1	3.1	0.0	0.0	0.0	0.0
82.5°	59.0	24.9	6.2	6.2	3.1	3.1	0.0	0.0	0.0	0.0	0.0
85°	21.8	9.3	6.2	6.2	3.1	3.1	0.0	0.0	0.0	0.0	0.0
87.5°	9.3	6.2	6.2	6.2	3.1	3.1	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)