

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: P237065

Luminaire Tested: **ARCH-L-AF72-120-D-U-T3-7030**

Issue Date: 8/23/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P237065  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)  
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-T3-7030  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16042.5 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

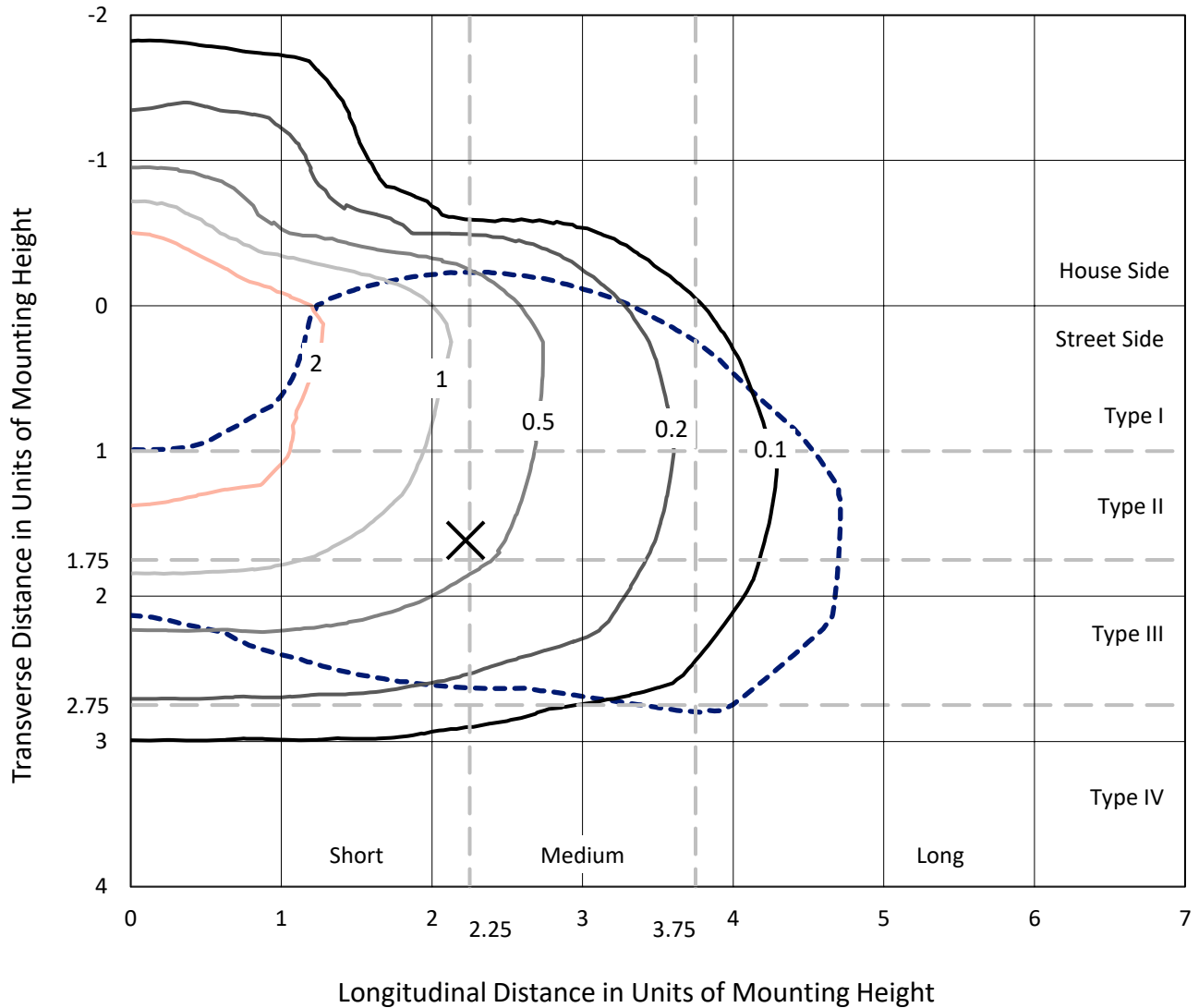
Input Watts (W): 123  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

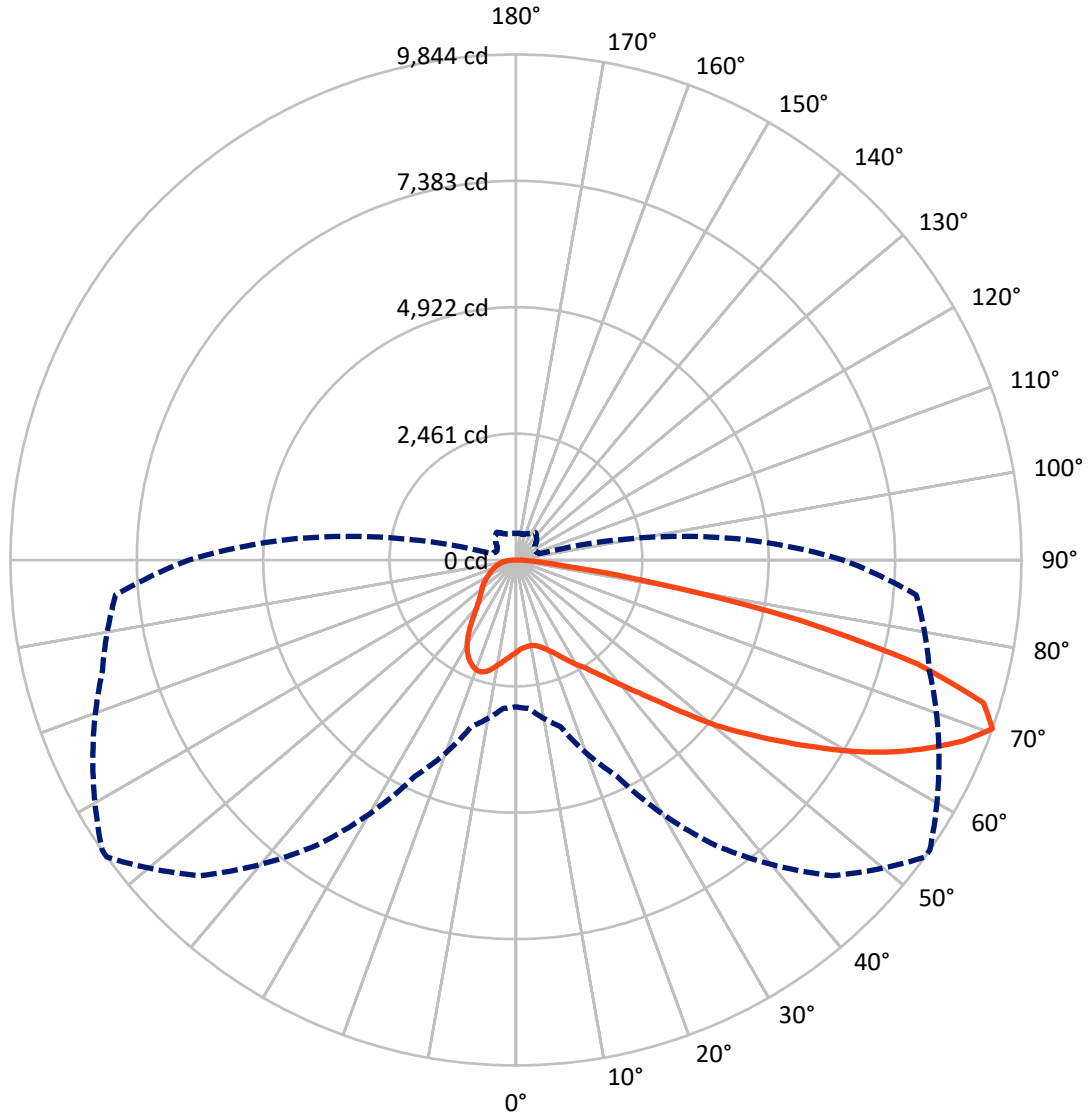
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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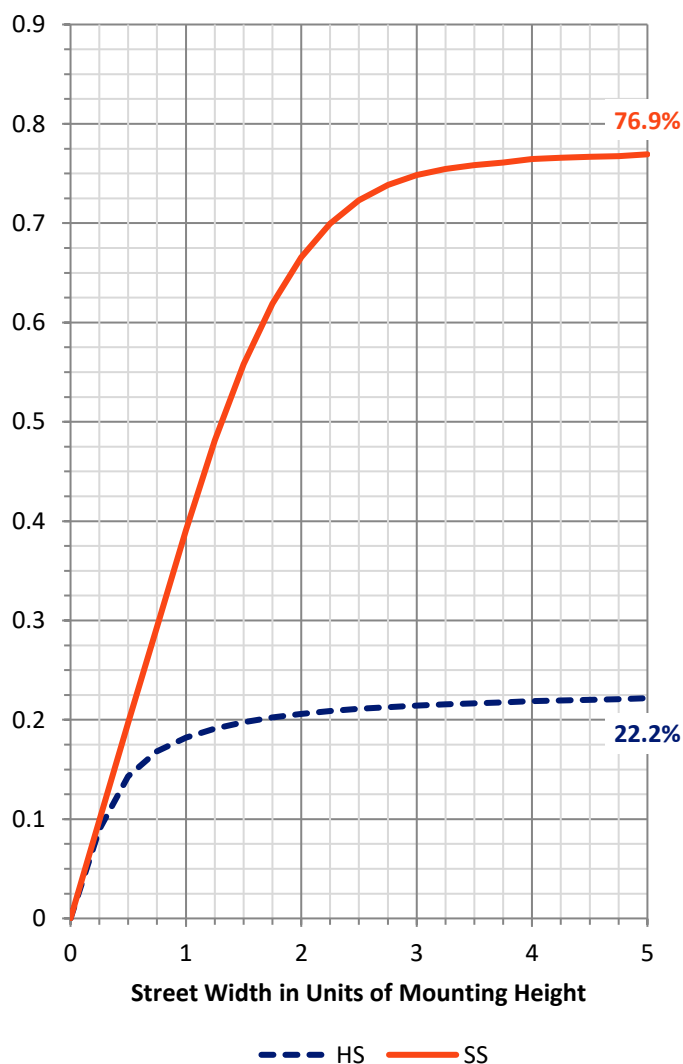
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3638.4	0.0	3638.4
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	12404.1	0.0	12404.1
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	16042.5	0.0	16042.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.1	1.1
10°-20°	562.8	3.5
20°-30°	977.8	6.1
30°-40°	1429.0	8.9
40°-50°	2242.7	14.0
50°-60°	3448.7	21.5
60°-70°	4213.5	26.3
70°-80°	2612.4	16.3
80°-90°	379.5	2.4
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°	16042.5	100.0
0°-180°	16042.5	100.0

**Coefficient of Utilization**

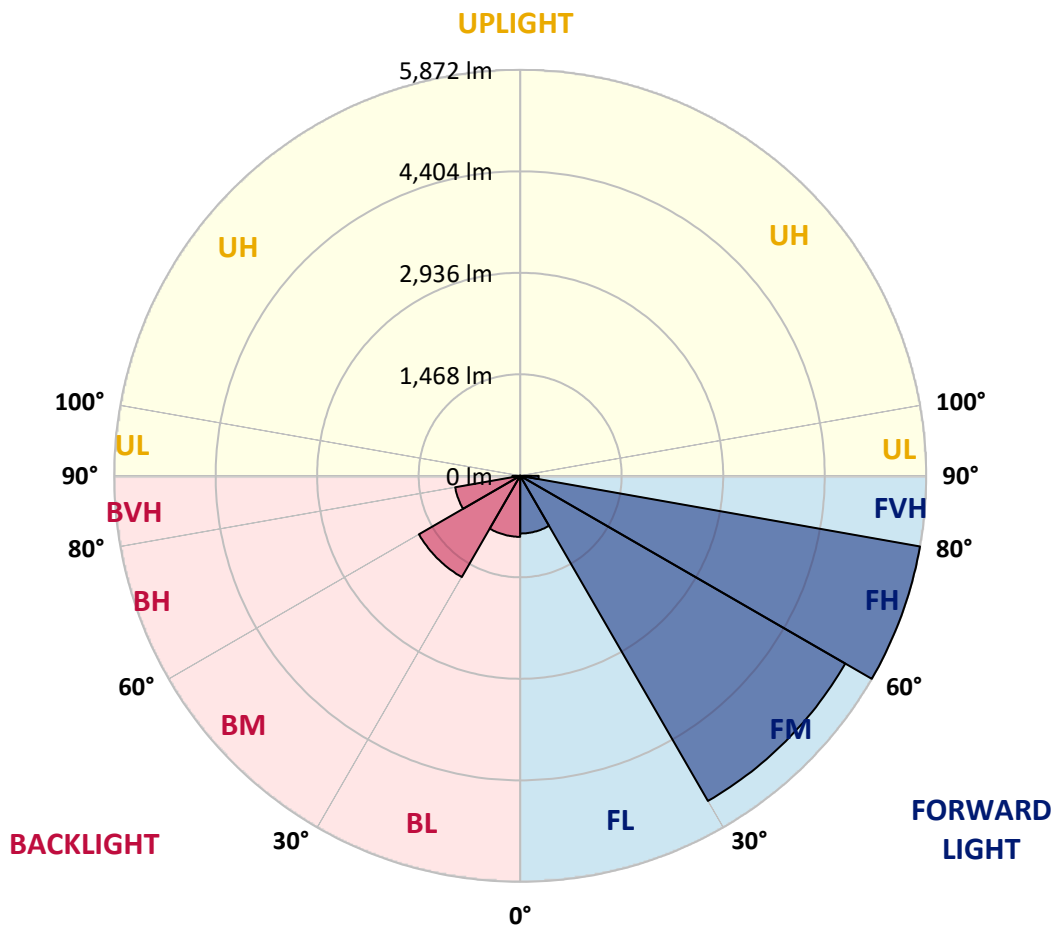


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	834.7	5.2			
FM (30°-60°)	5429.7	33.8			
FH (60°-80°)	5871.8	36.6			G3/7500
FVH (80°-90°)	268.0	1.7			G3/500
BL (0°-30°)	882.1	5.5	B2/1000		
BM (30°-60°)	1690.7	10.5	B2/2500		
BH (60°-80°)	954.1	5.9	B2/1000		G2/1000
BVH (80°-90°)	111.5	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8
2.5°	1724.3	1718.4	1718.4	1727.3	1730.2	1739.0	1739.0	1741.9	1750.8	1765.4	1783.1
5°	1671.4	1668.5	1671.4	1683.2	1689.0	1706.7	1712.6	1715.5	1733.2	1756.7	1783.1
7.5°	1618.5	1615.6	1621.5	1639.1	1656.8	1683.2	1697.9	1700.8	1727.3	1759.6	1794.8
10°	1600.9	1598.0	1606.8	1621.5	1639.1	1668.5	1692.0	1694.9	1733.2	1771.3	1821.3
12.5°	1624.4	1621.5	1630.3	1645.0	1662.6	1683.2	1709.7	1712.6	1762.6	1812.5	1865.4
15°	1683.2	1683.2	1686.2	1694.9	1712.6	1730.2	1753.7	1756.7	1809.6	1868.3	1921.1
17.5°	1774.3	1768.4	1768.4	1765.4	1777.2	1786.1	1815.5	1818.3	1874.2	1927.0	1979.9
20°	1886.0	1883.0	1871.2	1856.6	1853.6	1859.5	1888.9	1891.9	1947.5	1991.7	2041.6
22.5°	2021.1	2023.9	1997.5	1965.2	1950.5	1959.3	1985.8	1988.7	2029.8	2068.1	2112.1
25°	2200.3	2191.4	2153.2	2106.2	2076.8	2076.8	2103.2	2103.2	2141.5	2165.0	2194.4
27.5°	2370.6	2353.0	2317.7	2250.2	2203.1	2212.0	2238.4	2238.4	2273.6	2282.4	2297.1
30°	2555.7	2538.0	2494.0	2408.7	2347.1	2341.2	2373.5	2370.6	2417.6	2414.6	2402.9
32.5°	2781.8	2773.0	2699.6	2590.9	2508.7	2488.1	2517.5	2520.4	2549.8	2541.0	2502.8
35°	3099.1	3096.2	3028.5	2837.7	2729.0	2690.8	2708.4	2708.4	2729.0	2705.5	2640.8
37.5°	3498.6	3504.5	3445.7	3163.7	3010.9	2946.4	2949.2	2946.4	2952.1	2925.8	2858.2
40°	3898.2	3912.8	3909.9	3569.1	3375.2	3263.6	3222.5	3216.6	3231.4	3219.6	3155.0
42.5°	4423.9	4459.2	4376.9	4068.5	3851.1	3663.1	3551.5	3536.8	3569.1	3583.8	3522.1
45°	4970.3	4958.5	4829.3	4606.1	4409.2	4168.3	3956.9	3933.4	3956.9	4001.0	3936.3
47.5°	5255.3	5246.4	5214.2	5102.5	5073.1	4797.0	4476.8	4456.2	4412.2	4473.8	4397.4
50°	5725.3	5734.0	5601.8	5590.1	5713.5	5560.8	5064.2	5017.3	4938.0	4987.9	4923.3
52.5°	6066.0	6027.9	5945.6	6048.4	6433.1	6350.9	5616.6	5596.0	5522.6	5510.8	5481.4
55°	6204.1	6204.1	6218.8	6456.6	7006.0	6897.3	6215.9	6236.4	6136.5	6054.3	6092.4
57.5°	6245.3	6262.8	6389.2	6782.9	7678.7	7323.3	6876.8	6906.2	6762.2	6597.7	6718.2
60°	6042.5	6095.3	6398.0	6967.8	8057.7	7775.7	7573.0	7581.8	7373.3	7132.3	7343.9
62.5°	5522.6	5587.2	6127.7	7044.2	7996.0	8239.8	8230.9	8251.6	7966.6	7666.9	7931.3
65°	4885.1	4949.8	5525.5	6829.8	7948.9	8571.7	8833.2	8889.0	8521.7	8119.4	8298.6
67.5°	3948.1	4033.2	4579.6	6107.1	7719.8	8845.0	9397.2	9456.0	8950.6	8354.4	8266.2
70°	2861.2	2902.3	3360.6	4641.4	6785.8	8695.1	9843.7	9840.8	9091.7	8336.7	7825.5
72.5°	1377.8	1410.0	1806.6	2881.7	4852.9	7379.1	9520.6	9576.3	8897.8	8081.2	6818.0
75°	566.9	599.3	731.5	1216.2	2546.9	4876.3	8069.5	8201.6	8081.2	7252.7	5334.6
77.5°	352.5	364.3	428.9	628.7	1163.3	2276.6	5648.9	5828.1	6403.8	5810.4	3522.1
80°	264.4	273.1	320.2	440.7	734.3	840.1	2805.3	3031.5	3880.5	3334.1	1595.0
82.5°	220.2	223.2	255.5	320.2	499.5	481.8	898.8	1001.7	1809.6	1272.0	549.3
85°	205.6	211.5	229.1	229.1	317.3	302.5	373.1	390.7	525.9	434.8	190.9
87.5°	105.8	99.9	202.6	179.1	164.6	146.9	158.7	170.3	196.7	208.5	85.2
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°	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8
2.5°	1789.0	1797.8	1812.5	1827.2	1844.8	1865.4	1877.1	1891.9	1903.6	1897.7	1894.7
5°	1797.8	1812.5	1844.8	1874.2	1909.5	1950.5	1976.9	2006.3	2029.8	2035.7	2026.9
7.5°	1812.5	1839.0	1883.0	1935.8	1982.8	2035.7	2076.8	2118.0	2147.4	2153.2	2153.2
10°	1847.7	1877.1	1935.8	2006.3	2062.2	2118.0	2165.0	2197.3	2223.8	2235.5	2235.5
12.5°	1897.7	1932.9	2003.4	2088.6	2150.3	2203.1	2229.6	2244.3	2255.9	2267.7	2270.7
15°	1956.4	1994.6	2079.8	2170.9	2235.5	2261.8	2261.8	2258.9	2258.9	2264.8	2270.7
17.5°	2015.2	2056.3	2144.4	2241.4	2282.4	2267.7	2247.3	2238.4	2232.5	2229.6	2238.4
20°	2076.8	2118.0	2206.1	2297.1	2285.3	2223.8	2194.4	2173.8	2156.1	2147.4	2159.1
22.5°	2144.4	2182.6	2273.6	2335.3	2247.3	2153.2	2097.4	2065.1	2035.7	2018.1	2029.8
25°	2223.8	2261.8	2350.0	2347.1	2179.6	2047.5	1959.3	1906.5	1874.2	1856.6	1856.6
27.5°	2317.7	2350.0	2435.2	2317.7	2085.6	1906.5	1777.2	1727.3	1718.4	1703.8	1703.8
30°	2414.6	2441.1	2514.5	2250.2	1956.4	1721.4	1580.4	1557.0	1559.7	1545.2	1548.1
32.5°	2514.5	2541.0	2561.6	2150.3	1789.0	1512.8	1418.8	1401.2	1398.3	1386.5	1374.8
35°	2655.5	2693.7	2567.4	2015.2	1586.2	1339.5	1272.0	1254.3	1236.7	1195.7	1195.7
37.5°	2870.0	2911.1	2552.8	1847.7	1377.8	1204.4	1142.8	1119.3	1089.9	1048.7	1034.0
40°	3163.7	3163.7	2520.4	1659.7	1210.3	1095.7	1037.0	1007.6	975.2	934.1	925.3
42.5°	3510.4	3428.1	2470.5	1468.8	1086.9	1022.2	969.3	937.1	898.8	851.9	846.0
45°	3915.8	3692.5	2400.0	1298.4	995.8	978.2	945.8	890.0	825.5	775.5	766.7
47.5°	4309.4	3930.4	2332.3	1178.0	919.4	960.6	934.1	840.1	752.0	681.6	672.7
50°	4741.2	4141.9	2253.2	1078.1	860.8	948.8	919.4	766.7	669.8	619.8	613.9
52.5°	5173.0	4356.3	2167.9	972.3	810.8	925.3	884.2	713.8	666.8	599.3	590.4
55°	5628.3	4606.1	2068.1	854.9	752.0	878.3	837.2	710.8	687.4	599.3	578.7
57.5°	6071.9	4882.1	1906.5	740.2	687.4	807.9	819.6	693.2	643.3	593.4	569.9
60°	6562.4	5175.9	1639.1	643.3	631.5	749.1	796.1	655.1	593.4	575.8	564.0
62.5°	6956.1	5440.3	1280.7	575.8	584.5	702.1	766.7	631.5	572.8	558.1	555.1
65°	7126.4	5446.2	919.4	517.1	537.5	658.0	737.3	611.0	555.1	549.3	546.4
67.5°	6947.2	5146.5	646.3	461.2	487.7	616.9	699.1	590.4	537.5	540.5	534.6
70°	6368.6	4515.0	473.0	408.3	440.7	572.8	658.0	564.0	517.1	523.0	514.1
72.5°	5328.7	3519.1	378.9	364.3	402.4	525.9	616.9	534.6	484.7	487.7	470.1
75°	3936.3	2332.3	317.3	326.0	358.4	481.8	564.0	496.5	449.5	437.7	425.9
77.5°	2341.2	1198.5	261.4	284.9	320.2	428.9	505.3	449.5	411.3	390.7	381.9
80°	966.4	484.7	214.4	240.9	279.0	381.9	446.6	393.7	367.2	346.7	334.9
82.5°	384.8	237.9	170.3	196.7	235.0	331.9	390.7	346.7	320.2	305.5	273.1
85°	146.9	117.5	114.6	138.1	176.2	255.5	323.1	290.8	270.3	232.0	223.2
87.5°	58.8	52.9	52.9	67.5	99.9	161.6	232.0	202.6	211.5	167.3	170.3
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)