

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: P572953

Luminaire Tested: **ARCH-S-PA2-130-830-U-T2U**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572953  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-130-830-U-T2U  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 3000K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12725 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

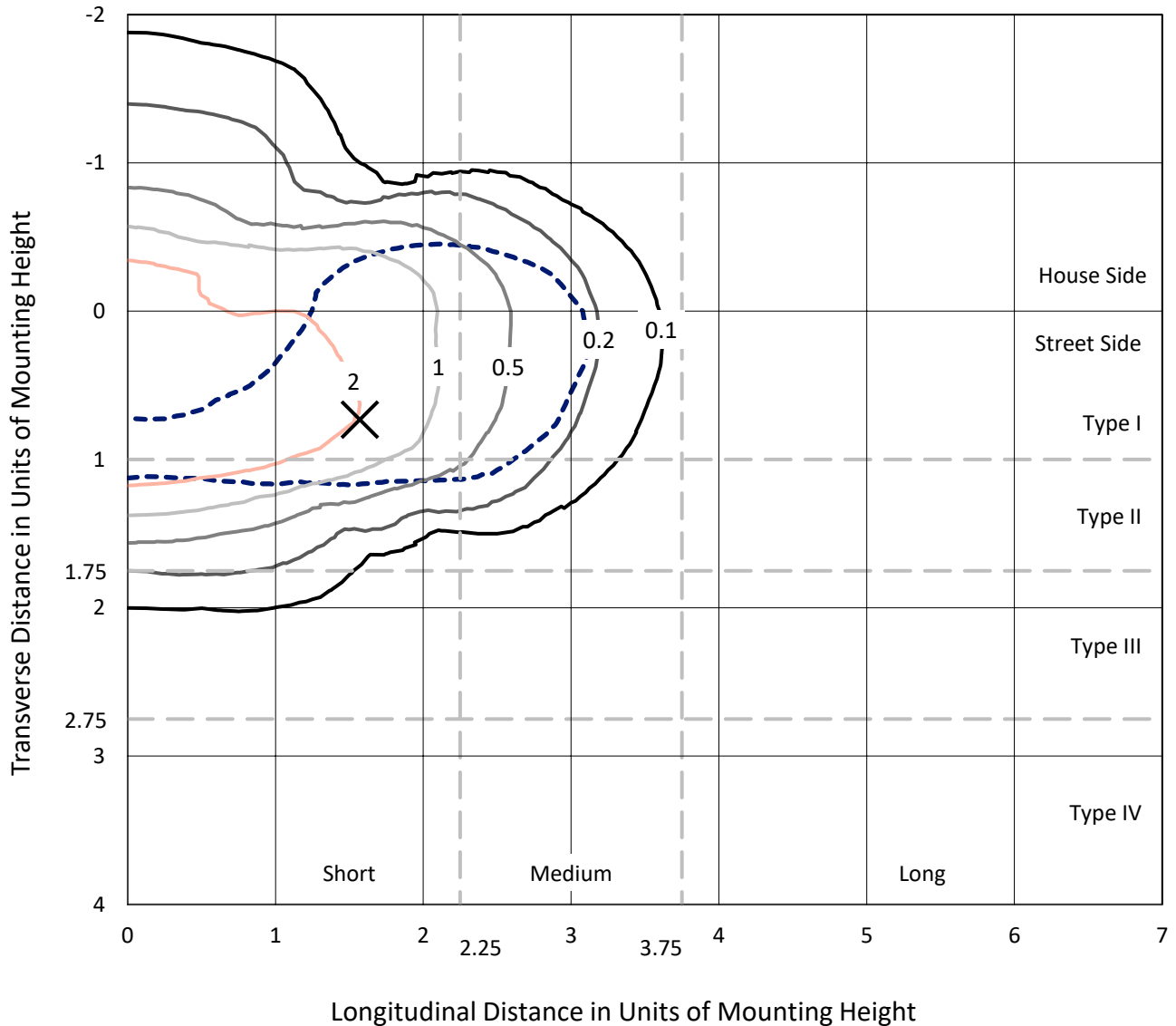
Input Watts (W): 131.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

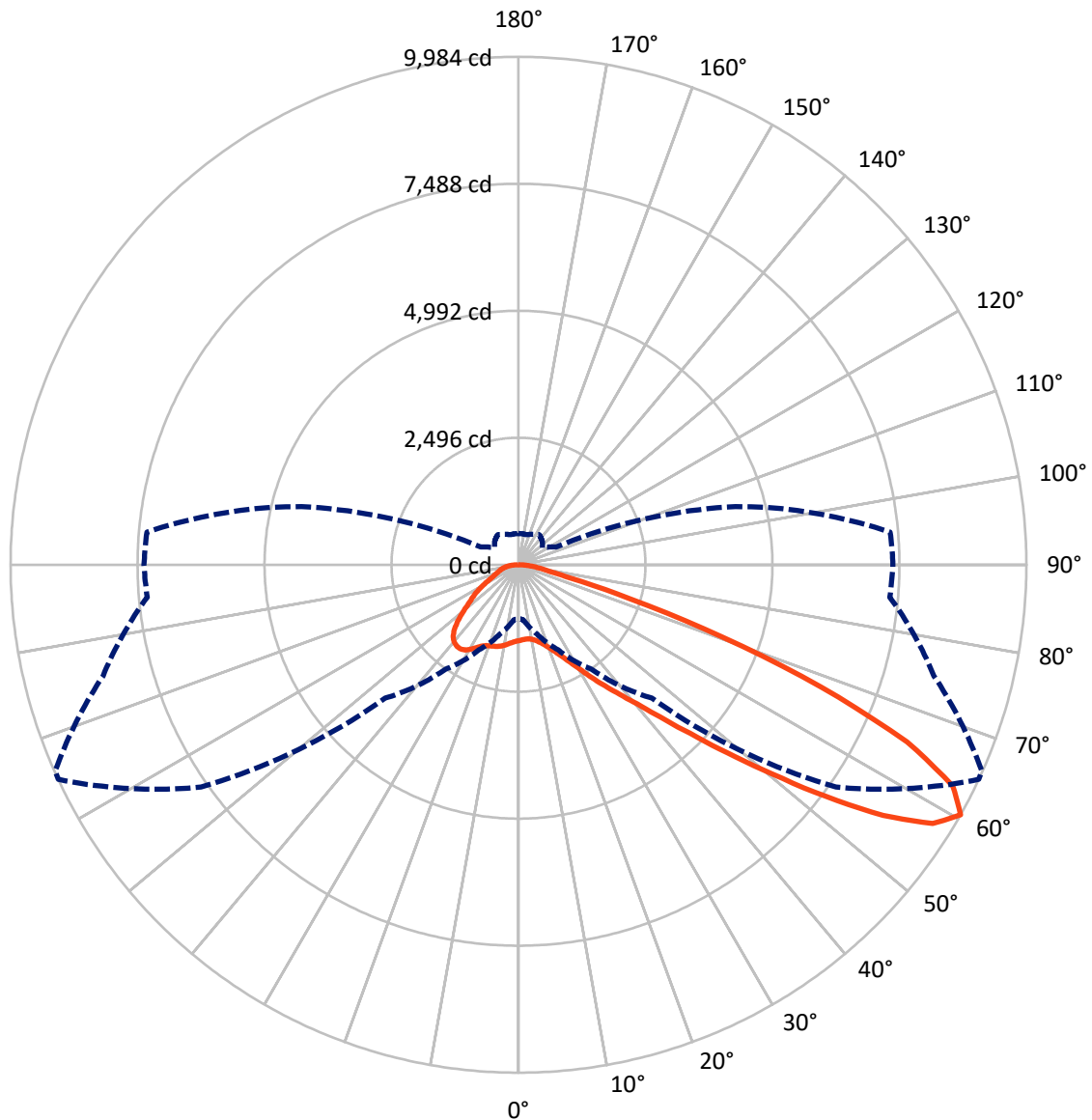
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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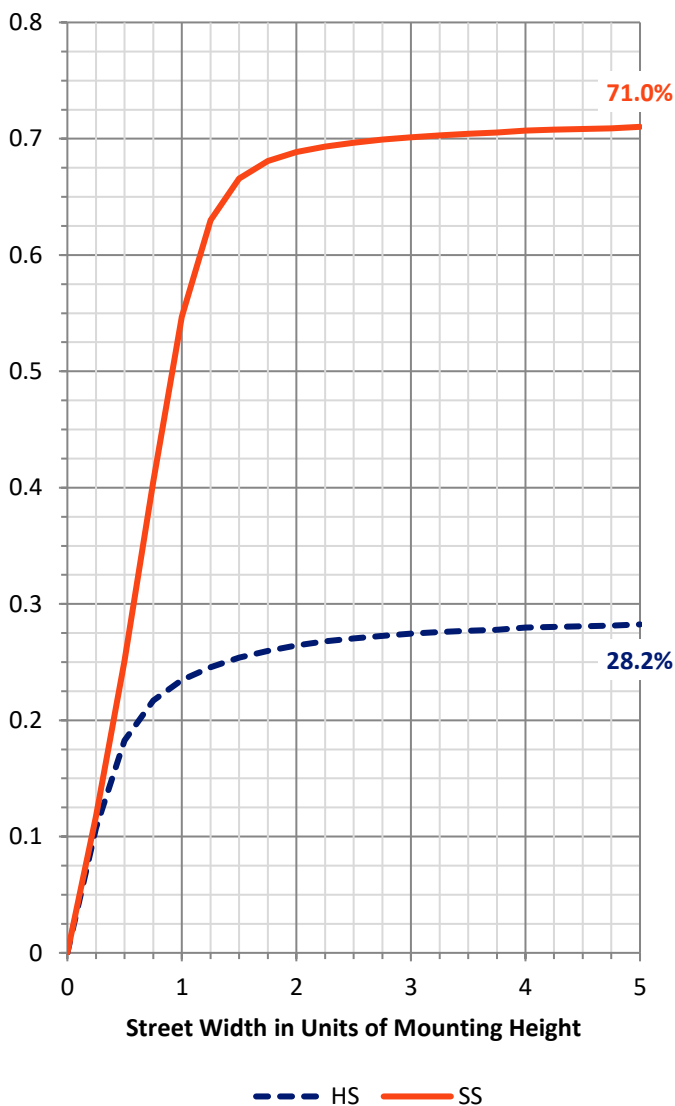
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3642.8	0.0	3642.8
	% Fixture	28.6	0.0	28.6
<b>Street Side</b>	Lumens	9082.2	0.0	9082.2
	% Fixture	71.4	0.0	71.4
<b>Total</b>	Lumens	12725.0	0.0	12725.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.3	1.1
10°-20°	464.2	3.6
20°-30°	890.0	7.0
30°-40°	1545.6	12.1
40°-50°	2621.4	20.6
50°-60°	3264.2	25.7
60°-70°	2630.3	20.7
70°-80°	996.0	7.8
80°-90°	168.9	1.3
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°	12725.0	100.0
0°-180°	12725.0	100.0

**Coefficient of Utilization**



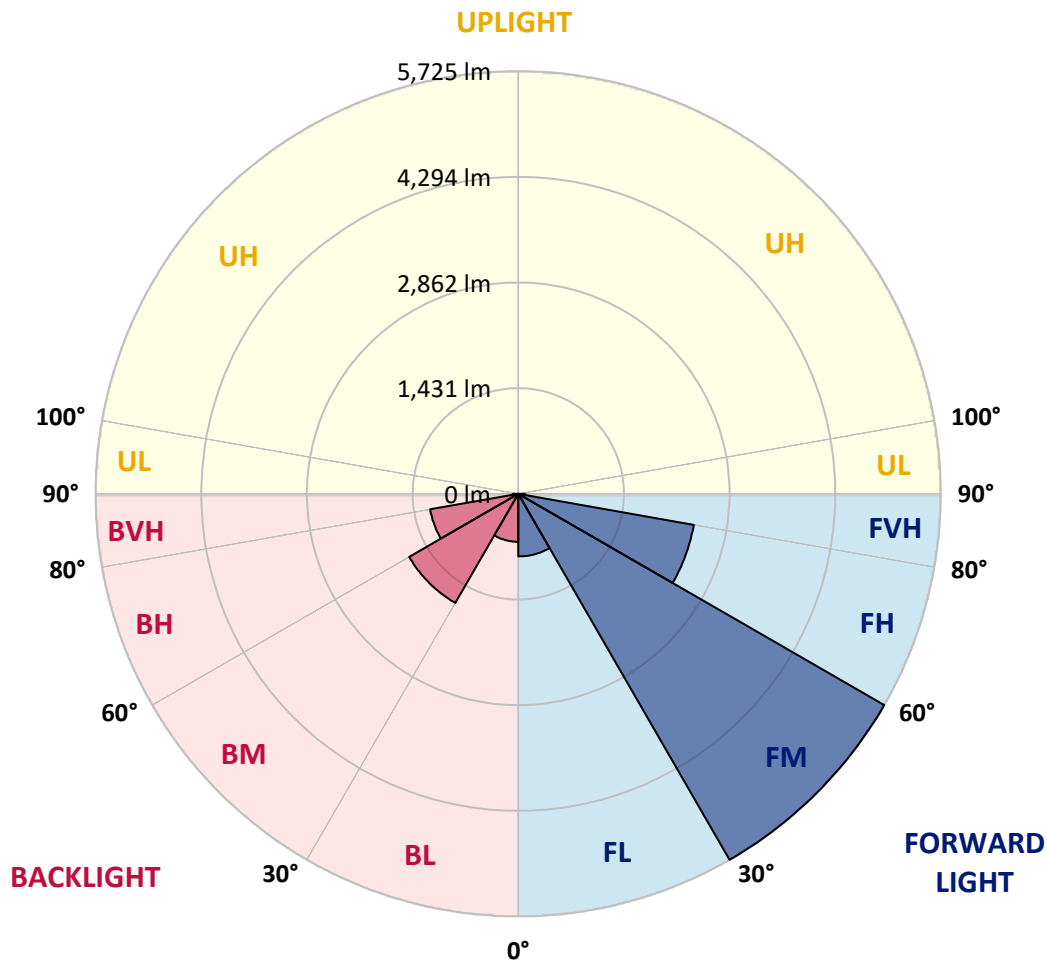
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	848.3	6.7			
FM (30°-60°)	5725.0	45.0			
FH (60°-80°)	2415.1	19.0			G2/5000
FVH (80°-90°)	93.7	0.7			G1/100
BL (0°-30°)	650.1	5.1	B2/1000		
BM (30°-60°)	1706.2	13.4	B2/2500		
BH (60°-80°)	1211.2	9.5	B3/2500		G3/2500
BVH (80°-90°)	75.2	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0
2.5°	1458.1	1458.1	1458.1	1461.6	1465.1	1468.6	1475.6	1475.6	1475.6	1479.1	1486.0
5°	1430.2	1426.7	1430.2	1433.7	1440.7	1447.7	1461.6	1468.6	1468.6	1482.6	1496.5
7.5°	1433.7	1426.7	1426.7	1430.2	1437.2	1444.2	1458.1	1468.6	1472.1	1489.5	1514.0
10°	1468.6	1458.1	1458.1	1461.6	1461.6	1468.6	1479.1	1493.0	1496.5	1514.0	1538.4
12.5°	1541.9	1531.4	1527.9	1517.4	1507.0	1514.0	1524.4	1527.9	1531.4	1541.9	1566.3
15°	1695.4	1677.9	1650.0	1629.1	1601.2	1583.7	1580.2	1583.7	1583.7	1587.2	1601.2
17.5°	1915.1	1894.2	1852.3	1807.0	1740.7	1684.9	1667.4	1653.5	1653.5	1643.0	1643.0
20°	2183.7	2152.3	2103.5	2037.2	1939.5	1838.4	1779.1	1747.7	1737.2	1719.8	1695.4
22.5°	2494.2	2473.3	2410.5	2309.3	2162.8	2026.7	1929.1	1859.3	1859.3	1817.4	1765.1
25°	2860.5	2822.1	2748.8	2630.2	2431.4	2236.0	2103.5	2002.3	1991.9	1925.6	1841.9
27.5°	3216.3	3191.9	3101.2	2944.2	2707.0	2480.2	2295.4	2176.7	2159.3	2054.7	1925.6
30°	3648.8	3620.9	3484.9	3265.1	3010.5	2752.3	2536.0	2382.6	2365.1	2222.1	2040.7
32.5°	4186.1	4091.9	3924.4	3673.3	3345.4	3055.8	2808.1	2644.2	2623.3	2459.3	2243.0
35°	4838.4	4758.1	4468.6	4203.5	3812.8	3432.6	3136.1	2919.8	2891.9	2696.5	2424.4
37.5°	5298.8	5260.5	5061.6	4852.3	4405.8	3893.0	3530.2	3230.2	3202.3	2944.2	2591.9
40°	5588.4	5550.0	5494.2	5434.9	5187.2	4608.1	4004.7	3596.5	3551.2	3307.0	2926.7
42.5°	5738.4	5707.0	5717.4	5836.1	5905.8	5815.1	4681.4	4084.9	4053.5	3757.0	3334.9
45°	5651.2	5630.2	5731.4	6045.4	6387.2	7057.0	5550.0	4726.8	4643.0	4290.7	3830.2
47.5°	5232.6	5169.8	5407.0	5940.7	6673.3	7650.0	6596.5	5518.6	5427.9	4922.1	4332.6
50°	4370.9	4353.5	4677.9	5354.7	6561.6	7883.7	7716.3	6453.5	6387.2	5602.3	4890.7
52.5°	3568.6	3561.6	3812.8	4433.7	5850.0	7719.8	8529.1	7566.3	7367.5	6286.1	5497.7
55°	2769.8	2766.3	2989.5	3453.5	4667.4	6948.8	8912.8	8700.0	8553.5	7032.6	6122.1
57.5°	1894.2	1869.8	2159.3	2511.6	3505.8	5504.7	8661.6	9596.5	9505.8	7824.4	6784.9
60°	1053.5	1088.4	1409.3	1845.4	2508.1	3708.1	7615.1	9983.7	9969.8	8455.8	7325.6
62.5°	746.5	760.5	896.5	1311.6	1650.0	2124.4	5874.4	9582.6	9694.2	8804.7	7632.6
65°	620.9	627.9	694.2	969.8	1207.0	1227.9	3662.8	8393.0	8539.5	8696.5	7698.8
67.5°	586.0	589.5	624.4	715.1	945.4	889.5	1636.0	6408.1	6718.6	7824.4	7266.3
70°	533.7	537.2	589.5	631.4	764.0	701.2	840.7	4255.8	4674.4	6184.9	6265.1
72.5°	457.0	467.4	509.3	593.0	620.9	582.6	648.8	2274.4	2689.5	4137.2	4838.4
75°	394.2	401.2	432.6	502.3	582.6	464.0	551.2	1036.0	1214.0	2427.9	3062.8
77.5°	317.4	320.9	366.3	411.6	488.4	376.7	429.1	620.9	652.3	1186.0	1384.9
80°	240.7	240.7	272.1	327.9	362.8	362.8	314.0	432.6	450.0	565.1	547.7
82.5°	184.9	181.4	205.8	230.2	261.6	303.5	237.2	286.0	293.0	341.9	293.0
85°	122.1	122.1	136.0	157.0	174.4	167.4	184.9	167.4	174.4	212.8	160.5
87.5°	52.3	52.3	73.3	69.8	76.7	80.2	90.7	80.2	80.2	97.7	73.3
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°	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0
2.5°	1489.5	1493.0	1500.0	1503.5	1514.0	1517.4	1517.4	1524.4	1524.4	1531.4	1531.4
5°	1500.0	1510.5	1520.9	1531.4	1541.9	1545.4	1552.3	1555.8	1555.8	1562.8	1559.3
7.5°	1520.9	1531.4	1552.3	1562.8	1576.7	1583.7	1580.2	1583.7	1580.2	1583.7	1583.7
10°	1548.8	1562.8	1587.2	1601.2	1611.6	1615.1	1604.7	1594.2	1580.2	1580.2	1580.2
12.5°	1580.2	1590.7	1622.1	1632.6	1639.5	1629.1	1601.2	1580.2	1569.8	1573.3	1569.8
15°	1611.6	1622.1	1646.5	1657.0	1657.0	1625.6	1601.2	1594.2	1590.7	1594.2	1594.2
17.5°	1643.0	1653.5	1674.4	1674.4	1664.0	1639.5	1615.1	1590.7	1573.3	1562.8	1562.8
20°	1684.9	1684.9	1691.9	1691.9	1688.4	1650.0	1590.7	1531.4	1496.5	1475.6	1472.1
22.5°	1740.7	1726.7	1712.8	1712.8	1726.7	1625.6	1510.5	1419.8	1364.0	1357.0	1343.0
25°	1800.0	1768.6	1733.7	1758.1	1733.7	1562.8	1398.8	1276.7	1210.5	1186.0	1193.0
27.5°	1862.8	1814.0	1761.6	1831.4	1698.8	1440.7	1241.9	1105.8	1043.0	1025.6	1025.6
30°	1950.0	1876.7	1800.0	1908.1	1632.6	1301.2	1057.0	959.3	924.4	910.5	907.0
32.5°	2117.4	2005.8	1894.2	1977.9	1559.3	1119.8	931.4	872.1	830.2	816.3	826.7
35°	2267.4	2110.5	2037.2	2009.3	1444.2	973.3	854.7	802.3	767.4	750.0	750.0
37.5°	2403.5	2253.5	2197.7	2009.3	1294.2	882.6	805.8	764.0	718.6	704.7	704.7
40°	2700.0	2501.2	2403.5	1981.4	1109.3	837.2	781.4	732.6	694.2	680.2	676.7
42.5°	3108.1	2839.5	2616.3	1918.6	952.3	816.3	767.4	711.6	680.2	669.8	666.3
45°	3540.7	3303.5	2818.6	1807.0	851.2	795.3	764.0	704.7	666.3	655.8	652.3
47.5°	4064.0	3819.8	3052.3	1636.0	781.4	781.4	760.5	694.2	659.3	648.8	648.8
50°	4643.0	4440.7	3348.8	1440.7	729.1	770.9	753.5	694.2	655.8	645.3	641.9
52.5°	5236.1	5141.9	3659.3	1248.8	676.7	757.0	750.0	694.2	648.8	638.4	638.4
55°	5989.5	5912.8	4018.6	1105.8	634.9	729.1	750.0	687.2	638.4	631.4	631.4
57.5°	6729.1	6701.2	4297.7	980.2	603.5	694.2	739.5	676.7	627.9	624.4	624.4
60°	7360.5	7332.6	4416.3	823.3	572.1	659.3	718.6	659.3	610.5	614.0	614.0
62.5°	7751.2	7590.7	4329.1	680.2	540.7	627.9	694.2	638.4	593.0	603.5	600.0
65°	7820.9	7447.7	3990.7	568.6	505.8	593.0	666.3	614.0	568.6	593.0	589.5
67.5°	7308.1	6687.2	3355.8	495.3	470.9	554.7	634.9	579.1	540.7	575.6	565.1
70°	6198.8	5431.4	2483.7	439.5	436.0	509.3	593.0	537.2	502.3	519.8	505.8
72.5°	4615.1	3920.9	1608.1	397.7	397.7	457.0	533.7	484.9	450.0	453.5	439.5
75°	2877.9	2410.5	914.0	359.3	359.3	404.7	474.4	425.6	401.2	387.2	404.7
77.5°	1308.1	1060.5	481.4	320.9	324.4	345.3	408.1	362.8	334.9	314.0	324.4
80°	484.9	432.6	314.0	275.6	282.6	286.0	327.9	289.5	265.1	251.2	244.2
82.5°	251.2	233.7	212.8	219.8	230.2	219.8	254.7	216.3	188.4	177.9	150.0
85°	125.6	122.1	129.1	146.5	160.5	136.0	153.5	139.5	115.1	83.7	83.7
87.5°	48.8	52.3	48.8	66.3	73.3	62.8	69.8	48.8	34.9	17.4	14.0
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)