

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: P399832

Luminaire Tested: **ARCH-L-PA3-200-722-U-T2R**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399832  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-200-722-U-T2R  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21479 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

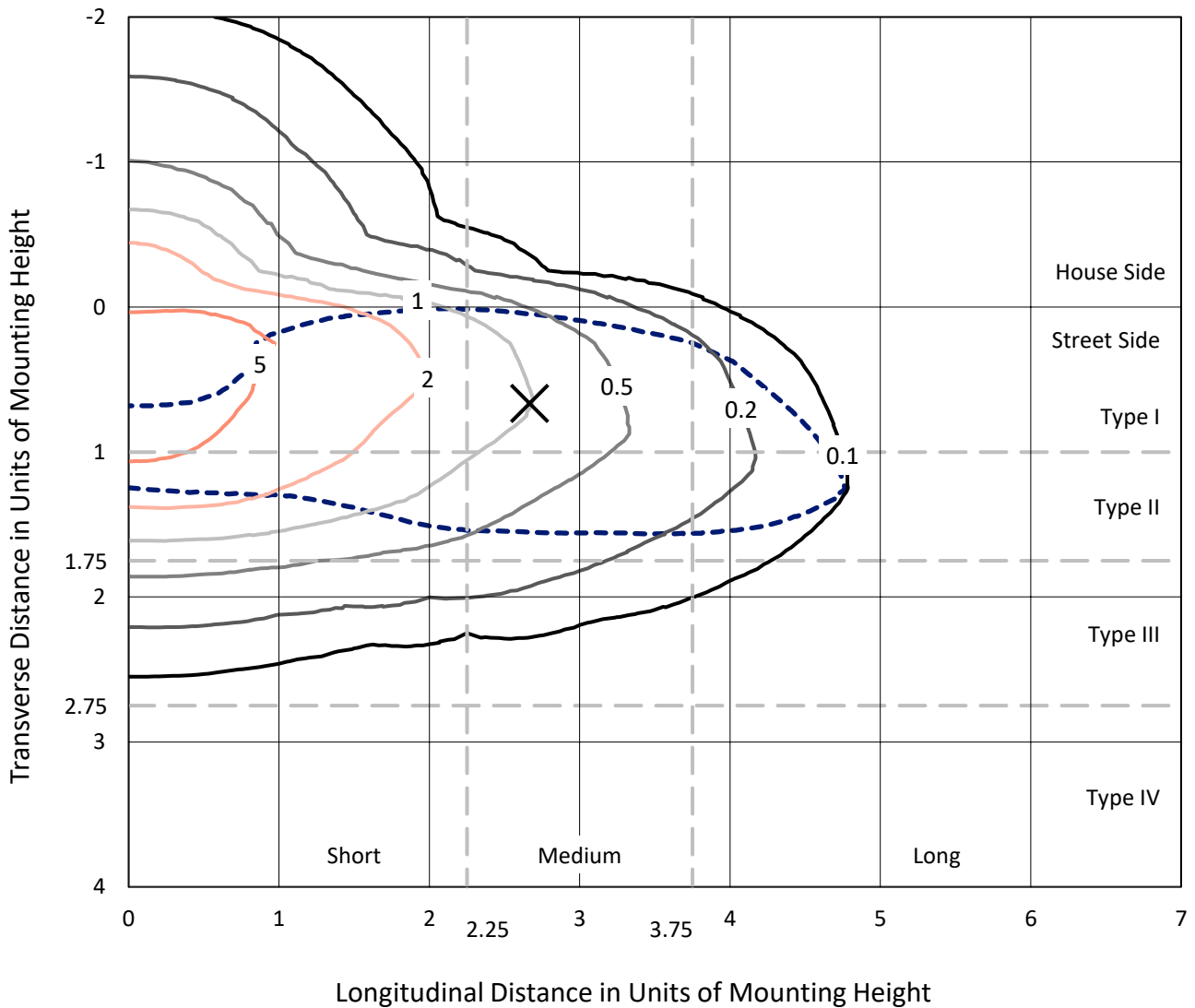
Input Watts (W): 201  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

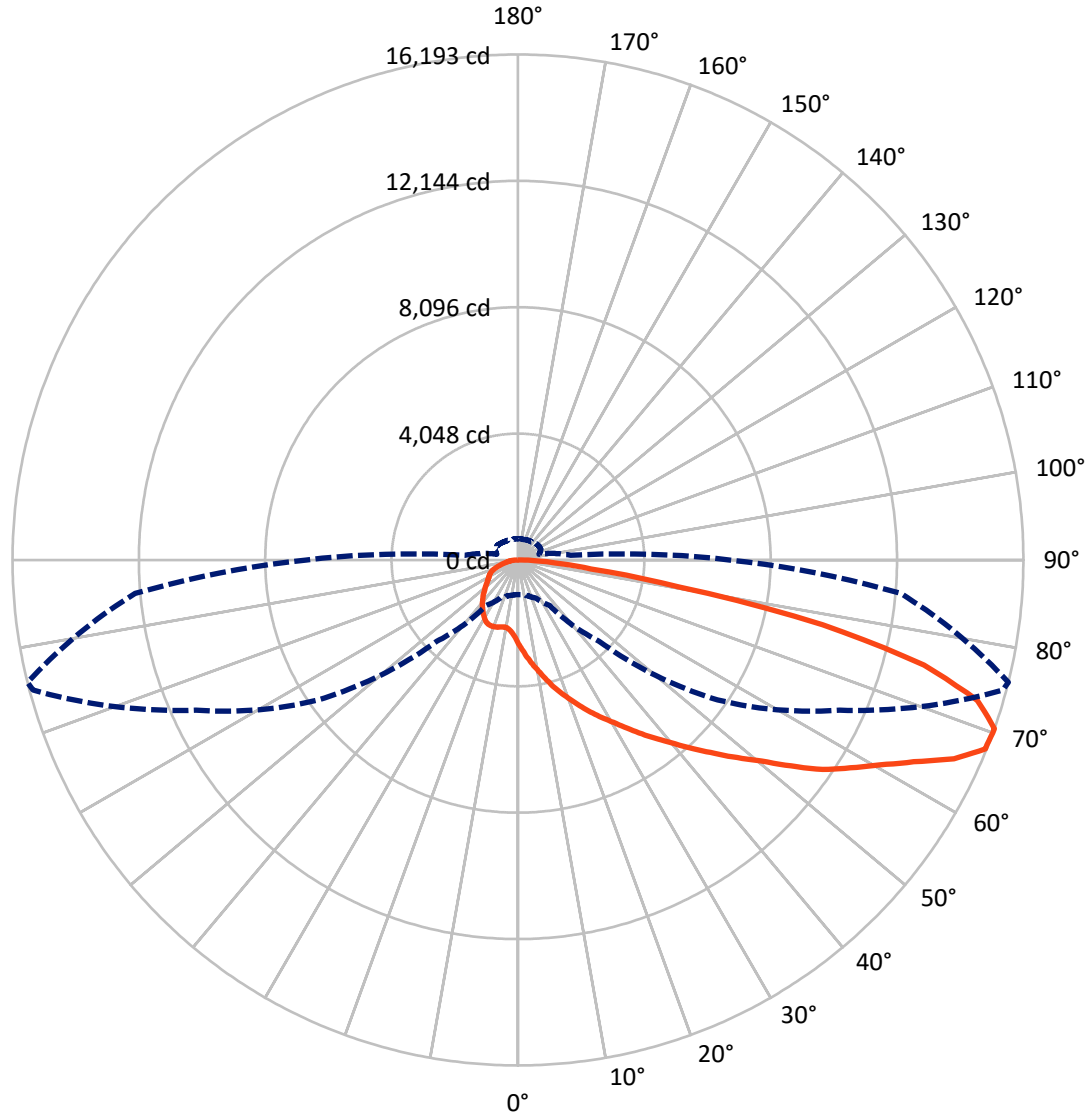
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3506.7	0.0	3506.7
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	17972.3	0.0	17972.3
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	21479.0	0.0	21479.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.1	1.3
10°-20°	948.5	4.4
20°-30°	1697.1	7.9
30°-40°	2745.2	12.8
40°-50°	3971.4	18.5
50°-60°	4545.5	21.2
60°-70°	4181.4	19.5
70°-80°	2585.7	12.0
80°-90°	525.1	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°	21479.0	100.0
0°-180°	21479.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P399832

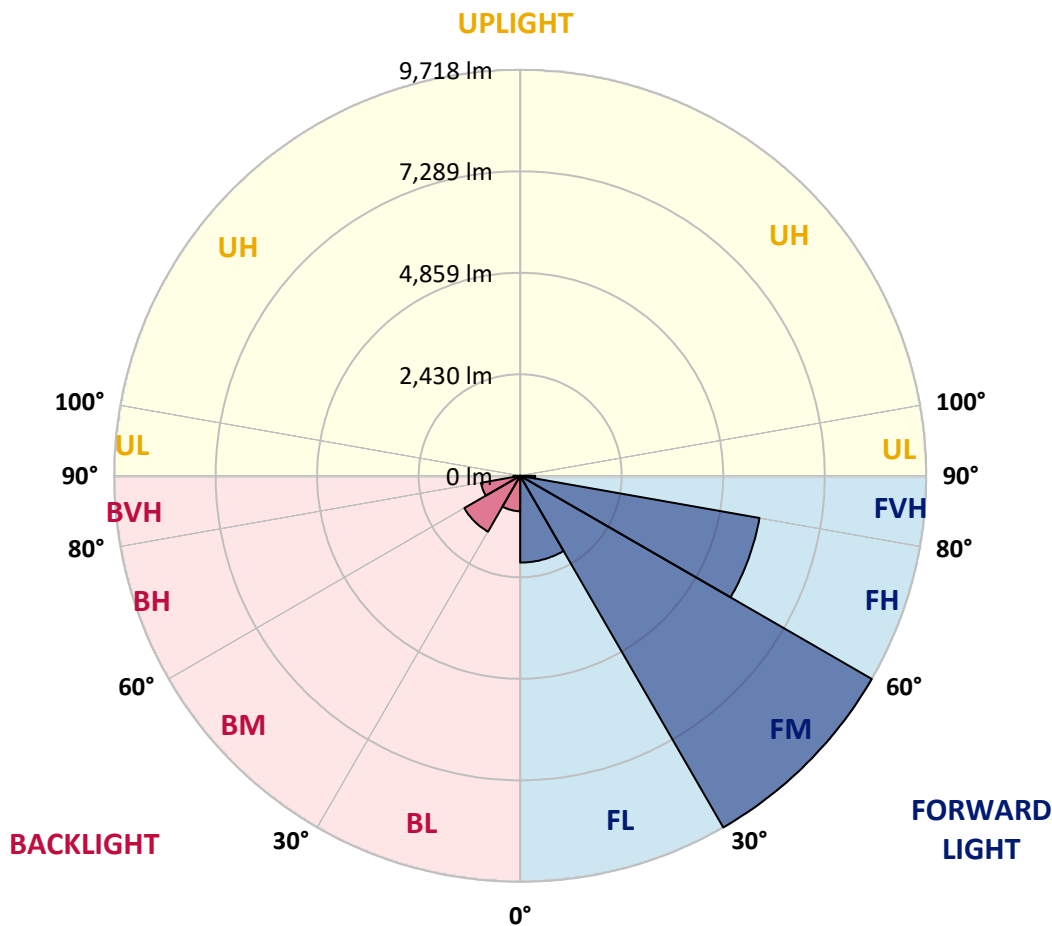
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2077.7	9.7			
FM (30°-60°)	9718.2	45.2			
FH (60°-80°)	5815.9	27.1			G3/7500
FVH (80°-90°)	360.5	1.7			G3/500
BL (0°-30°)	847.0	3.9	B2/1000		
BM (30°-60°)	1544.0	7.2	B2/2500		
BH (60°-80°)	951.1	4.4	B2/1000		G2/1000
BVH (80°-90°)	164.6	0.8			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 II Medium





REPORT NUMBER: P399832

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2686.0	2686.0	2686.0	2686.0	2686.0	2686.0	2686.0	2686.0	2686.0	2686.0	2686.0
2.5°	3423.2	3397.8	3395.0	3355.4	3318.7	3219.9	3149.2	3025.0	2900.7	2897.9	2773.6
5°	3957.0	3931.6	3917.5	3869.5	3807.3	3677.4	3550.3	3358.3	3146.4	3132.3	2897.9
7.5°	4318.6	4296.0	4267.7	4248.0	4188.6	4072.8	3917.5	3688.7	3397.8	3369.6	3041.9
10°	4561.5	4547.3	4541.7	4527.6	4490.9	4397.7	4248.0	4005.1	3649.2	3618.1	3194.4
12.5°	4666.0	4660.3	4685.7	4725.3	4739.4	4702.7	4558.6	4329.9	3926.0	3892.1	3378.0
15°	4544.5	4550.2	4615.1	4750.7	4894.8	4973.8	4889.1	4666.0	4239.5	4191.5	3592.7
17.5°	4488.0	4496.5	4541.7	4671.6	4875.0	5120.7	5160.2	4985.1	4541.7	4473.9	3818.6
20°	4586.9	4598.2	4632.1	4733.8	4875.0	5137.7	5343.8	5290.2	4838.3	4767.7	4036.1
22.5°	4838.3	4852.4	4849.6	4914.5	5010.6	5191.3	5445.5	5578.3	5149.0	5069.9	4262.1
25°	5374.9	5363.6	5267.6	5236.5	5261.9	5377.7	5581.1	5855.1	5473.8	5394.7	4499.3
27.5°	6103.6	6089.5	5914.4	5756.2	5615.0	5665.8	5773.2	6078.2	5804.2	5713.8	4725.3
30°	6883.2	6866.2	6662.9	6405.8	6092.3	6018.9	6004.8	6273.1	6137.5	6041.5	4965.4
32.5°	7642.9	7628.8	7411.3	7111.9	6679.8	6459.5	6323.9	6490.6	6516.0	6422.8	5228.0
35°	8334.9	8334.9	8148.5	7792.6	7304.0	6970.7	6747.6	6758.9	6950.9	6843.6	5527.4
37.5°	8950.6	8947.8	8744.5	8394.2	7925.4	7544.1	7267.3	7083.7	7366.1	7272.9	5840.9
40°	9439.3	9419.5	9269.8	8964.8	8493.1	8114.6	7835.0	7465.0	7829.3	7744.6	6174.2
42.5°	9795.2	9783.9	9682.2	9416.7	8967.6	8611.7	8419.7	7945.1	8354.7	8270.0	6564.0
45°	9933.5	9956.1	9956.1	9704.8	9348.9	9024.1	8939.3	8473.3	8922.4	8837.7	6982.0
47.5°	9710.4	9769.7	9891.2	9908.1	9594.6	9374.3	9402.6	9004.3	9507.1	9461.9	7439.6
50°	9012.8	9122.9	9388.4	9868.6	9693.5	9642.6	9798.0	9546.6	10134.1	10120.0	7996.0
52.5°	7213.6	7481.9	8309.5	9171.0	9625.7	9766.9	10190.6	10156.7	10941.9	10964.5	8721.9
55°	5533.1	5634.8	6592.2	8058.1	9210.5	9727.4	10453.2	10752.6	11817.4	11845.7	9388.4
57.5°	4473.9	4541.7	5064.2	6592.2	8264.3	9512.7	10659.4	11100.0	12489.7	12563.1	9981.6
60°	3544.7	3643.5	3993.8	5044.4	6939.6	8995.8	10803.5	11487.0	13212.7	13322.9	10690.5
62.5°	2635.2	2683.2	3013.7	3736.7	5493.5	8066.6	10727.2	11907.8	14099.6	14232.3	11543.5
65°	1875.4	1917.8	2152.2	2657.8	4061.5	6809.7	10283.8	12221.3	15212.4	15348.0	12402.1
67.5°	1403.7	1420.7	1553.4	1858.5	2736.9	5290.2	9385.6	12167.7	16025.9	16147.3	12746.7
70°	1110.0	1115.7	1180.6	1344.4	1779.4	3683.1	7812.4	11379.7	16085.2	16192.5	12311.7
72.5°	920.8	917.9	954.7	1033.7	1239.9	2330.2	5787.3	9916.6	15322.6	15396.0	11097.2
75°	759.8	765.4	790.8	836.0	946.2	1536.5	3750.9	7911.3	13517.8	13438.7	9312.2
77.5°	638.3	635.5	646.8	686.3	765.4	1104.4	2197.4	5716.7	10018.3	9978.7	6112.1
80°	514.0	519.7	536.6	570.5	644.0	841.7	1299.2	3567.3	5374.9	5230.9	2920.5
82.5°	344.6	398.2	432.1	471.7	556.4	621.4	824.7	1813.3	2403.6	2366.9	1324.7
85°	163.8	217.5	322.0	367.2	451.9	389.8	559.2	864.3	1203.2	1189.1	477.3
87.5°	33.9	33.9	172.3	206.2	279.6	166.6	310.7	375.7	581.8	545.1	194.9
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°	2686.0	2686.0	2686.0	2686.0	2686.0	2686.0	2686.0	2686.0	2686.0	2686.0	2686.0
2.5°	2700.2	2623.9	2471.4	2349.9	2225.7	2155.0	2067.5	2025.1	2016.6	1994.1	2011.0
5°	2748.2	2598.5	2310.4	2121.2	1994.1	1931.9	1900.8	1889.5	1886.7	1881.1	1881.1
7.5°	2813.1	2584.4	2208.7	2016.6	1934.7	1915.0	1923.4	1940.4	1943.2	1948.9	1946.0
10°	2892.2	2587.2	2152.2	1991.2	1951.7	1954.5	1982.8	2005.4	2016.6	2025.1	2022.3
12.5°	3002.4	2621.1	2143.7	2008.2	1991.2	2002.5	2030.8	2053.4	2064.7	2067.5	2067.5
15°	3146.4	2691.7	2163.5	2044.9	2030.8	2039.2	2056.2	2064.7	2067.5	2064.7	2064.7
17.5°	3304.6	2776.4	2191.8	2067.5	2044.9	2036.4	2030.8	2022.3	2005.4	1994.1	1994.1
20°	3457.1	2852.7	2205.9	2064.7	2025.1	1991.2	1957.3	1915.0	1886.7	1864.1	1864.1
22.5°	3609.6	2923.3	2205.9	2033.6	1971.5	1906.5	1835.9	1768.1	1725.7	1697.5	1697.5
25°	3770.6	2991.1	2188.9	1979.9	1886.7	1793.5	1697.5	1612.8	1570.4	1542.1	1536.5
27.5°	3906.2	3030.6	2143.7	1903.7	1782.2	1663.6	1553.4	1465.9	1434.8	1409.4	1409.4
30°	4050.2	3056.0	2059.0	1804.8	1663.6	1528.0	1415.0	1344.4	1310.5	1273.8	1271.0
32.5°	4211.2	3073.0	1963.0	1700.3	1542.1	1398.1	1302.1	1245.6	1172.1	1132.6	1127.0
35°	4397.7	3095.6	1861.3	1581.7	1420.7	1290.8	1234.3	1141.1	1070.5	1036.6	1033.7
37.5°	4595.4	3112.5	1751.2	1477.2	1310.5	1220.2	1163.7	1053.5	991.4	940.5	934.9
40°	4804.4	3112.5	1638.2	1375.5	1223.0	1189.1	1081.8	982.9	878.4	853.0	847.3
42.5°	5036.0	3106.9	1525.2	1276.6	1141.1	1118.5	1033.7	929.2	875.6	853.0	847.3
45°	5281.7	3087.1	1417.9	1163.7	1056.3	1011.1	946.2	917.9	895.3	895.3	895.3
47.5°	5561.3	3070.2	1296.4	1062.0	994.2	943.4	895.3	878.4	875.6	884.0	892.5
50°	5920.0	3064.5	1194.7	988.6	946.2	886.9	881.2	867.1	869.9	869.9	869.9
52.5°	6355.0	3013.7	1098.7	934.9	898.2	827.6	844.5	858.6	864.3	861.5	858.6
55°	6674.1	2923.3	1016.8	898.2	864.3	805.0	827.6	850.2	855.8	847.3	847.3
57.5°	6962.2	2796.2	951.8	869.9	841.7	790.8	816.3	838.9	833.2	830.4	827.6
60°	7292.7	2674.7	901.0	855.8	819.1	785.2	807.8	821.9	813.4	807.8	805.0
62.5°	7651.4	2556.1	864.3	855.8	802.1	782.4	799.3	805.0	788.0	782.4	782.4
65°	7818.0	2369.7	824.7	855.8	793.7	776.7	782.4	776.7	759.8	759.8	756.9
67.5°	7544.1	2061.8	773.9	844.5	805.0	768.2	756.9	748.5	728.7	728.7	723.1
70°	6787.1	1694.7	700.5	807.8	807.8	765.4	723.1	703.3	680.7	689.2	677.9
72.5°	5798.6	1344.4	610.1	745.7	790.8	762.6	686.3	655.3	635.5	644.0	627.0
75°	4697.0	1042.2	502.8	646.8	748.5	748.5	649.6	607.3	584.7	584.7	564.9
77.5°	2993.9	771.1	409.5	536.6	672.2	728.7	618.6	553.6	519.7	511.2	497.1
80°	1482.8	542.3	336.1	426.5	573.4	683.5	596.0	491.5	443.4	426.5	401.1
82.5°	788.0	375.7	268.3	333.3	457.6	615.7	567.7	423.7	364.4	338.9	310.7
85°	353.1	231.6	214.7	254.2	347.4	505.6	511.2	347.4	279.6	333.3	245.7
87.5°	129.9	104.5	104.5	129.9	200.5	211.8	361.5	223.1	177.9	121.5	96.0
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)