

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: P399445

Luminaire Tested: **ARCH-L-PA3-140-760-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399445
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-PA3-140-760-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 620mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22631 lumens
Efficiency: N/A
Efficacy: 158.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

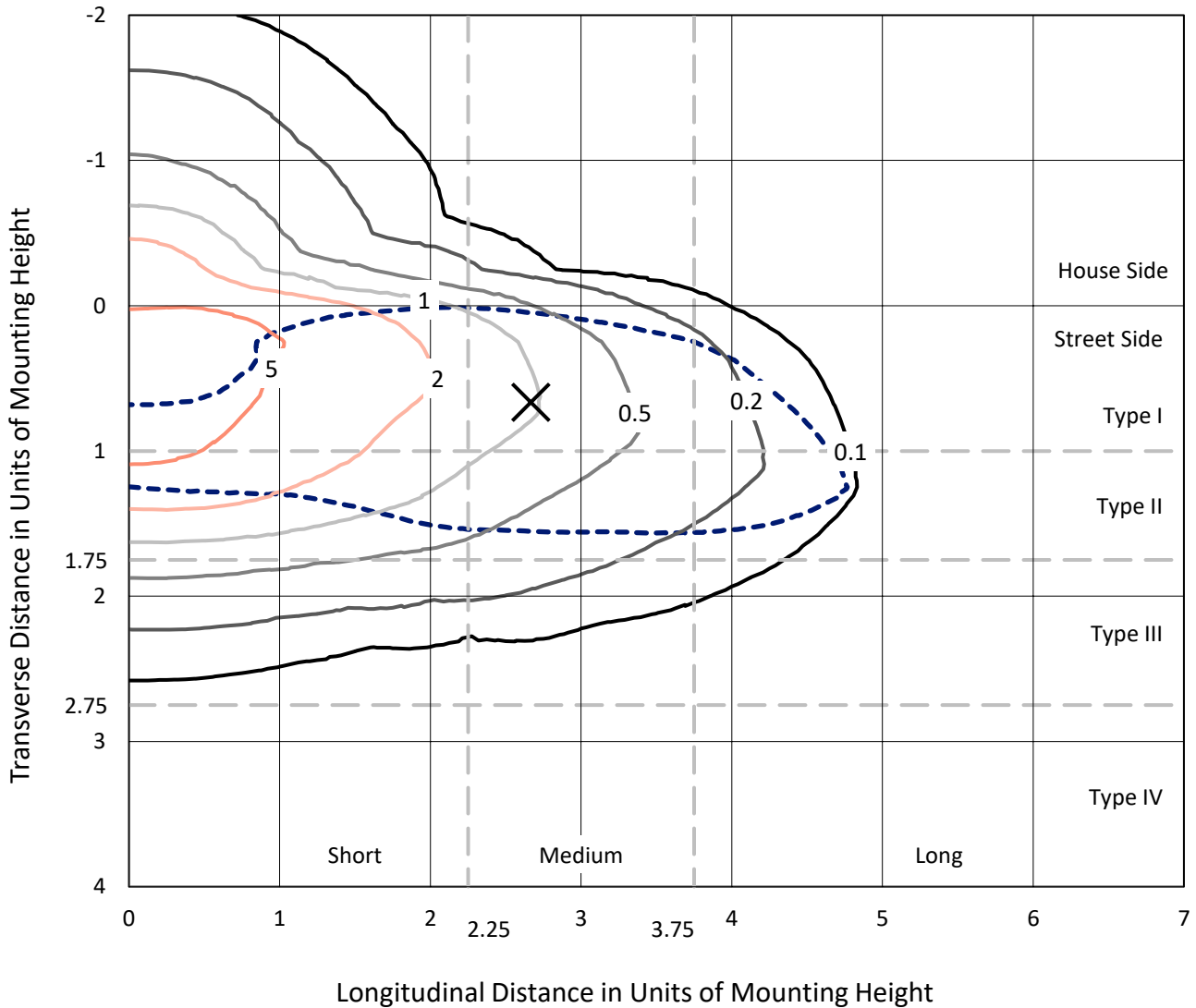
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

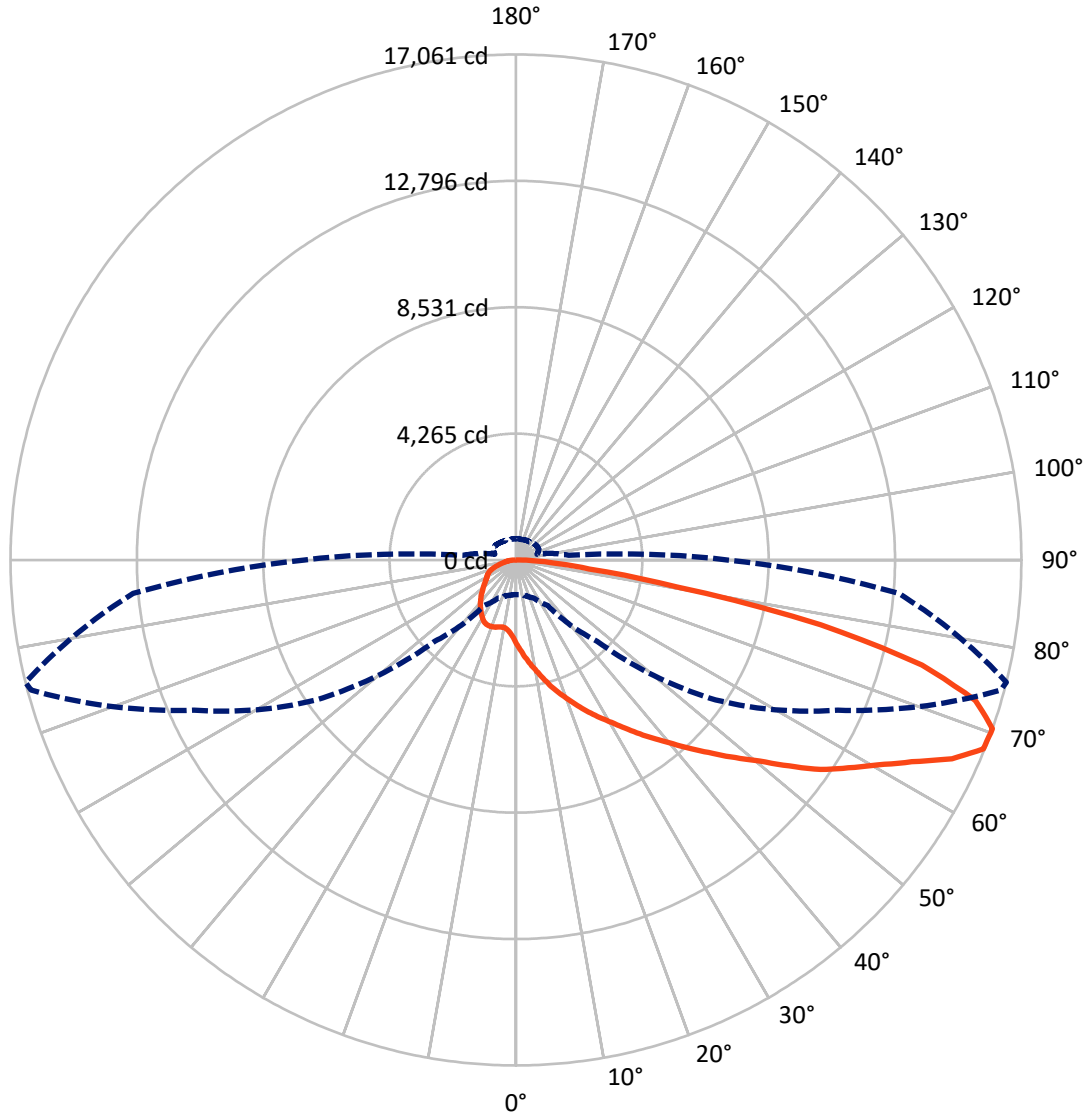
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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
House Side	Lumens	3694.7	0.0	3694.7
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	18936.3	0.0	18936.3
	% Fixture	83.7	0.0	83.7
Total	Lumens	22631.0	0.0	22631.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.1	1.3
10°-20°	999.4	4.4
20°-30°	1788.1	7.9
30°-40°	2892.5	12.8
40°-50°	4184.4	18.5
50°-60°	4789.3	21.2
60°-70°	4405.6	19.5
70°-80°	2724.4	12.0
80°-90°	553.2	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°	22631.0	100.0
0°-180°	22631.0	100.0

Coefficient of Utilization



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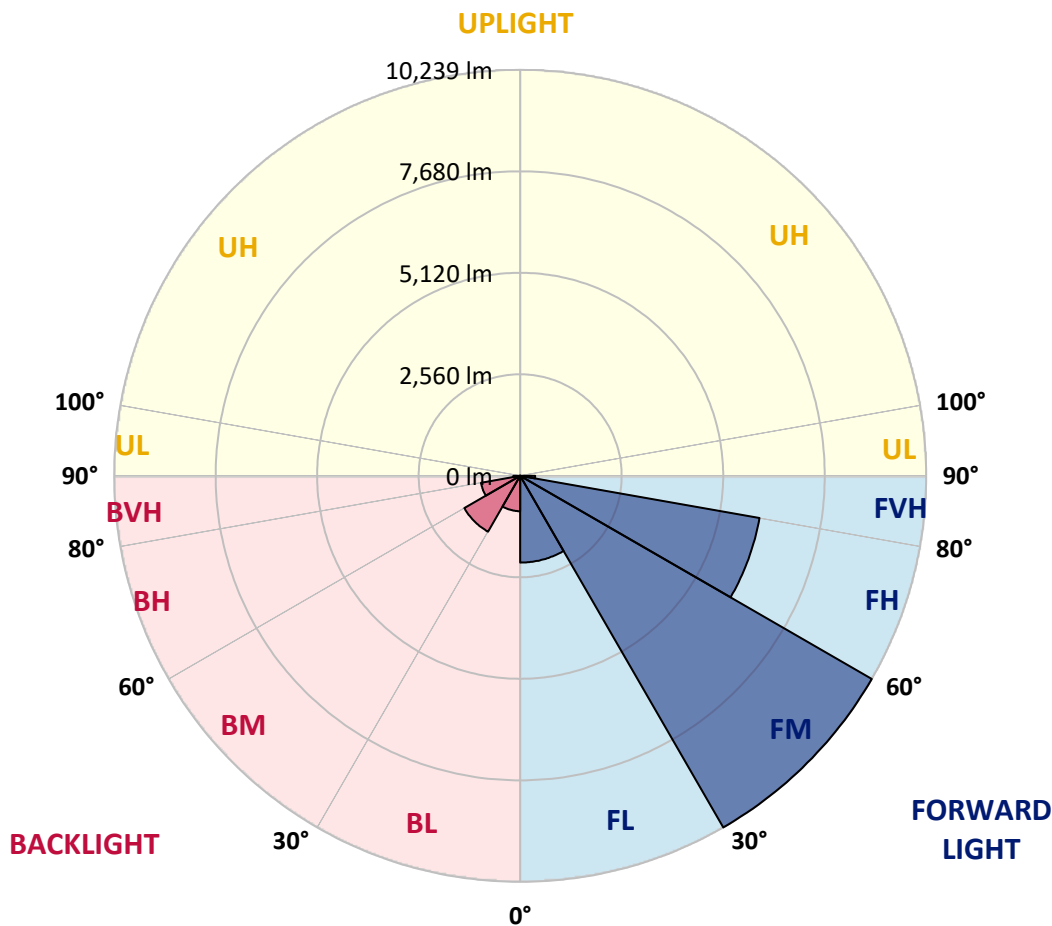
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2189.2	9.7			
FM (30°-60°)	10239.5	45.2			
FH (60°-80°)	6127.9	27.1			G3/7500
FVH (80°-90°)	379.8	1.7			G3/500
BL (0°-30°)	892.4	3.9	B2/1000		
BM (30°-60°)	1626.8	7.2	B2/2500		
BH (60°-80°)	1002.1	4.4	B3/2500		G3/2500
BVH (80°-90°)	173.4	0.8			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2830.1	2830.1	2830.1	2830.1	2830.1	2830.1	2830.1	2830.1	2830.1	2830.1	2830.1
2.5°	3606.8	3580.0	3577.1	3535.4	3496.7	3392.6	3318.2	3187.2	3056.3	3053.3	2922.4
5°	4169.3	4142.5	4127.6	4077.0	4011.5	3874.7	3740.7	3538.4	3315.2	3300.3	3053.3
7.5°	4550.2	4526.4	4496.6	4475.8	4413.3	4291.3	4127.6	3886.6	3580.0	3550.3	3205.1
10°	4806.1	4791.2	4785.3	4770.4	4731.7	4633.5	4475.8	4219.9	3844.9	3812.2	3365.8
12.5°	4916.2	4910.3	4937.1	4978.7	4993.6	4954.9	4803.1	4562.1	4136.5	4100.8	3559.2
15°	4788.3	4794.2	4862.7	5005.5	5157.3	5240.6	5151.3	4916.2	4466.9	4416.3	3785.4
17.5°	4728.7	4737.7	4785.3	4922.2	5136.4	5395.3	5437.0	5252.5	4785.3	4713.9	4023.4
20°	4832.9	4844.8	4880.5	4987.6	5136.4	5413.2	5630.4	5573.9	5097.8	5023.4	4252.6
22.5°	5097.8	5112.6	5109.7	5178.1	5279.3	5469.7	5737.6	5877.4	5425.1	5341.8	4490.7
25°	5663.2	5651.3	5550.1	5517.4	5544.1	5666.2	5880.4	6169.1	5767.3	5684.0	4740.6
27.5°	6431.0	6416.1	6231.6	6064.9	5916.1	5969.7	6082.8	6404.2	6115.5	6020.3	4978.7
30°	7252.3	7234.5	7020.2	6749.4	6419.1	6341.7	6326.8	6609.5	6466.7	6365.5	5231.7
32.5°	8052.8	8038.0	7808.8	7493.4	7038.1	6805.9	6663.1	6838.7	6865.5	6767.3	5508.4
35°	8782.0	8782.0	8585.5	8210.6	7695.7	7344.6	7109.5	7121.4	7323.7	7210.7	5823.9
37.5°	9430.7	9427.7	9213.5	8844.4	8350.4	7948.7	7657.1	7463.6	7761.2	7663.0	6154.2
40°	9945.5	9924.7	9767.0	9445.6	8948.6	8549.8	8255.2	7865.4	8249.3	8160.0	6505.4
42.5°	10320.5	10308.6	10201.5	9921.7	9448.6	9073.6	8871.2	8371.3	8802.8	8713.5	6916.0
45°	10466.3	10490.1	10490.1	10225.3	9850.3	9508.1	9418.8	8927.8	9400.9	9311.7	7356.5
47.5°	10231.2	10293.7	10421.7	10439.5	10109.2	9877.1	9906.8	9487.2	10017.0	9969.3	7838.6
50°	9496.2	9612.2	9892.0	10397.9	10213.4	10159.8	10323.5	10058.6	10677.6	10662.7	8424.8
52.5°	7600.5	7883.2	8755.2	9662.8	10141.9	10290.7	10737.1	10701.4	11528.7	11552.5	9189.7
55°	5829.8	5937.0	6945.8	8490.3	9704.5	10249.1	11013.9	11329.3	12451.3	12481.0	9892.0
57.5°	4713.9	4785.3	5335.8	6945.8	8707.6	10022.9	11231.1	11695.4	13159.5	13236.9	10516.9
60°	3734.8	3838.9	4208.0	5315.0	7311.8	9478.3	11382.9	12103.1	13921.4	14037.4	11263.9
62.5°	2776.5	2827.1	3175.3	3937.1	5788.2	8499.2	11302.6	12546.5	14855.8	14995.7	12162.6
65°	1976.0	2020.7	2267.7	2800.3	4279.4	7175.0	10835.3	12876.8	16028.3	16171.2	13067.3
67.5°	1479.0	1496.9	1636.8	1958.2	2883.7	5573.9	9889.0	12820.3	16885.4	17013.4	13430.3
70°	1169.5	1175.5	1243.9	1416.5	1874.8	3880.6	8231.4	11990.0	16947.9	17061.0	12972.1
72.5°	970.2	967.2	1005.9	1089.2	1306.4	2455.1	6097.7	10448.5	16144.4	16221.8	11692.4
75°	800.5	806.5	833.3	880.9	996.9	1618.9	3952.0	8335.6	14242.8	14159.4	9811.6
77.5°	672.6	669.6	681.5	723.1	806.5	1163.6	2315.3	6023.3	10555.6	10513.9	6439.9
80°	541.6	547.6	565.4	601.1	678.5	886.8	1368.9	3758.6	5663.2	5511.4	3077.1
82.5°	363.1	419.6	455.3	497.0	586.3	654.7	869.0	1910.5	2532.5	2493.8	1395.7
85°	172.6	229.1	339.3	386.9	476.1	410.7	589.2	910.6	1267.7	1252.9	502.9
87.5°	35.7	35.7	181.5	217.2	294.6	175.6	327.4	395.8	613.0	574.4	205.3
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°	2830.1	2830.1	2830.1	2830.1	2830.1	2830.1	2830.1	2830.1	2830.1	2830.1	2830.1
2.5°	2845.0	2764.6	2603.9	2476.0	2345.0	2270.6	2178.4	2133.7	2124.8	2101.0	2118.9
5°	2895.6	2737.8	2434.3	2234.9	2101.0	2035.5	2002.8	1990.9	1987.9	1982.0	1982.0
7.5°	2964.0	2723.0	2327.2	2124.8	2038.5	2017.7	2026.6	2044.5	2047.4	2053.4	2050.4
10°	3047.3	2725.9	2267.7	2098.0	2056.4	2059.3	2089.1	2112.9	2124.8	2133.7	2130.8
12.5°	3163.4	2761.7	2258.7	2115.9	2098.0	2109.9	2139.7	2163.5	2175.4	2178.4	2178.4
15°	3315.2	2836.1	2279.6	2154.6	2139.7	2148.6	2166.5	2175.4	2178.4	2175.4	2175.4
17.5°	3481.8	2925.3	2309.3	2178.4	2154.6	2145.6	2139.7	2130.8	2112.9	2101.0	2101.0
20°	3642.5	3005.7	2324.2	2175.4	2133.7	2098.0	2062.3	2017.7	1987.9	1964.1	1964.1
22.5°	3803.2	3080.1	2324.2	2142.7	2077.2	2008.7	1934.4	1862.9	1818.3	1788.5	1788.5
25°	3972.9	3151.5	2306.3	2086.1	1987.9	1889.7	1788.5	1699.3	1654.6	1624.9	1618.9
27.5°	4115.7	3193.2	2258.7	2005.8	1877.8	1752.8	1636.8	1544.5	1511.8	1485.0	1485.0
30°	4267.5	3219.9	2169.4	1901.6	1752.8	1610.0	1490.9	1416.5	1380.8	1342.1	1339.2
32.5°	4437.1	3237.8	2068.3	1791.5	1624.9	1473.1	1371.9	1312.4	1235.0	1193.3	1187.4
35°	4633.5	3261.6	1961.1	1666.5	1496.9	1360.0	1300.5	1202.3	1127.9	1092.2	1089.2
37.5°	4841.8	3279.5	1845.1	1556.4	1380.8	1285.6	1226.1	1110.0	1044.5	991.0	985.0
40°	5062.0	3279.5	1726.0	1449.3	1288.6	1252.9	1139.8	1035.6	925.5	898.7	892.8
42.5°	5306.1	3273.5	1607.0	1345.1	1202.3	1178.5	1089.2	979.1	922.5	898.7	892.8
45°	5565.0	3252.7	1493.9	1226.1	1113.0	1065.4	996.9	967.2	943.4	943.4	943.4
47.5°	5859.6	3234.8	1365.9	1118.9	1047.5	994.0	943.4	925.5	922.5	931.5	940.4
50°	6237.5	3228.9	1258.8	1041.6	996.9	934.4	928.5	913.6	916.6	916.6	916.6
52.5°	6695.8	3175.3	1157.6	985.0	946.3	871.9	889.8	904.7	910.6	907.7	904.7
55°	7032.1	3080.1	1071.3	946.3	910.6	848.1	871.9	895.8	901.7	892.8	892.8
57.5°	7335.7	2946.2	1002.9	916.6	886.8	833.3	860.0	883.8	877.9	874.9	871.9
60°	7683.8	2818.2	949.3	901.7	863.0	827.3	851.1	866.0	857.1	851.1	848.1
62.5°	8061.8	2693.2	910.6	901.7	845.2	824.3	842.2	848.1	830.3	824.3	824.3
65°	8237.4	2496.8	869.0	901.7	836.2	818.4	824.3	818.4	800.5	800.5	797.5
67.5°	7948.7	2172.4	815.4	889.8	848.1	809.5	797.5	788.6	767.8	767.8	761.8
70°	7151.1	1785.6	738.0	851.1	851.1	806.5	761.8	741.0	717.2	726.1	714.2
72.5°	6109.6	1416.5	642.8	785.6	833.3	803.5	723.1	690.4	669.6	678.5	660.7
75°	4949.0	1098.1	529.7	681.5	788.6	788.6	684.5	639.8	616.0	616.0	595.2
77.5°	3154.5	812.4	431.5	565.4	708.3	767.8	651.7	583.3	547.6	538.6	523.8
80°	1562.4	571.4	354.1	449.4	604.1	720.2	627.9	517.8	467.2	449.4	422.6
82.5°	830.3	395.8	282.7	351.2	482.1	648.8	598.2	446.4	383.9	357.1	327.4
85°	372.0	244.0	226.2	267.8	366.0	532.7	538.6	366.0	294.6	351.2	258.9
87.5°	136.9	110.1	110.1	136.9	211.3	223.2	380.9	235.1	187.5	128.0	101.2
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)