

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: P399904

Luminaire Tested: **ARCH-L-PA3-210-722-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399904
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-PA3-210-722-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22137 lumens
Efficiency: N/A
Efficacy: 104.9 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

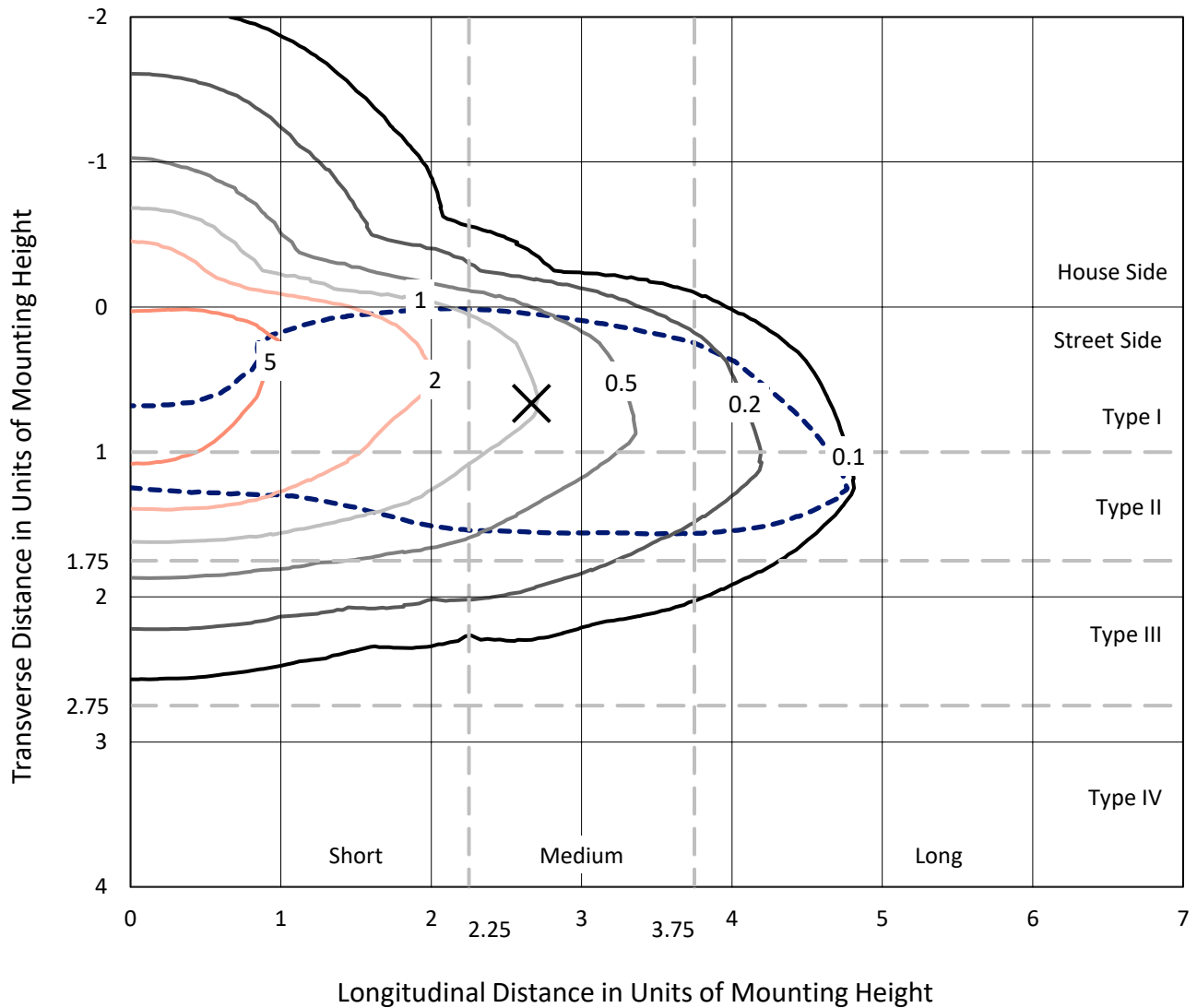
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

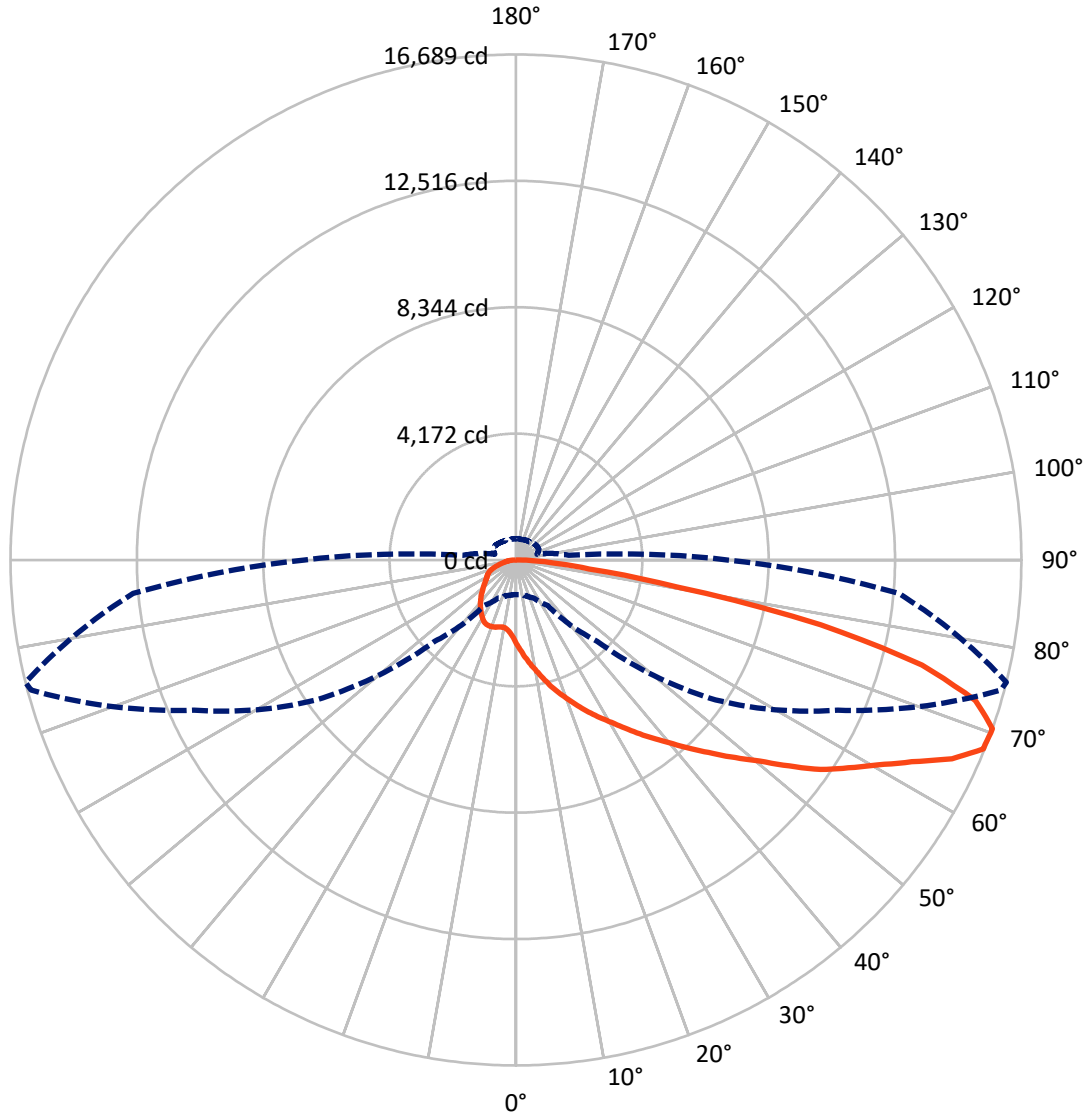
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	3614.1	0.0	3614.1
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	18522.9	0.0	18522.9
	% Fixture	83.7	0.0	83.7
Total	Lumens	22137.0	0.0	22137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.6	1.3
10°-20°	977.6	4.4
20°-30°	1749.1	7.9
30°-40°	2829.3	12.8
40°-50°	4093.1	18.5
50°-60°	4684.8	21.2
60°-70°	4309.4	19.5
70°-80°	2664.9	12.0
80°-90°	541.1	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°	22137.0	100.0
0°-180°	22137.0	100.0

Coefficient of Utilization



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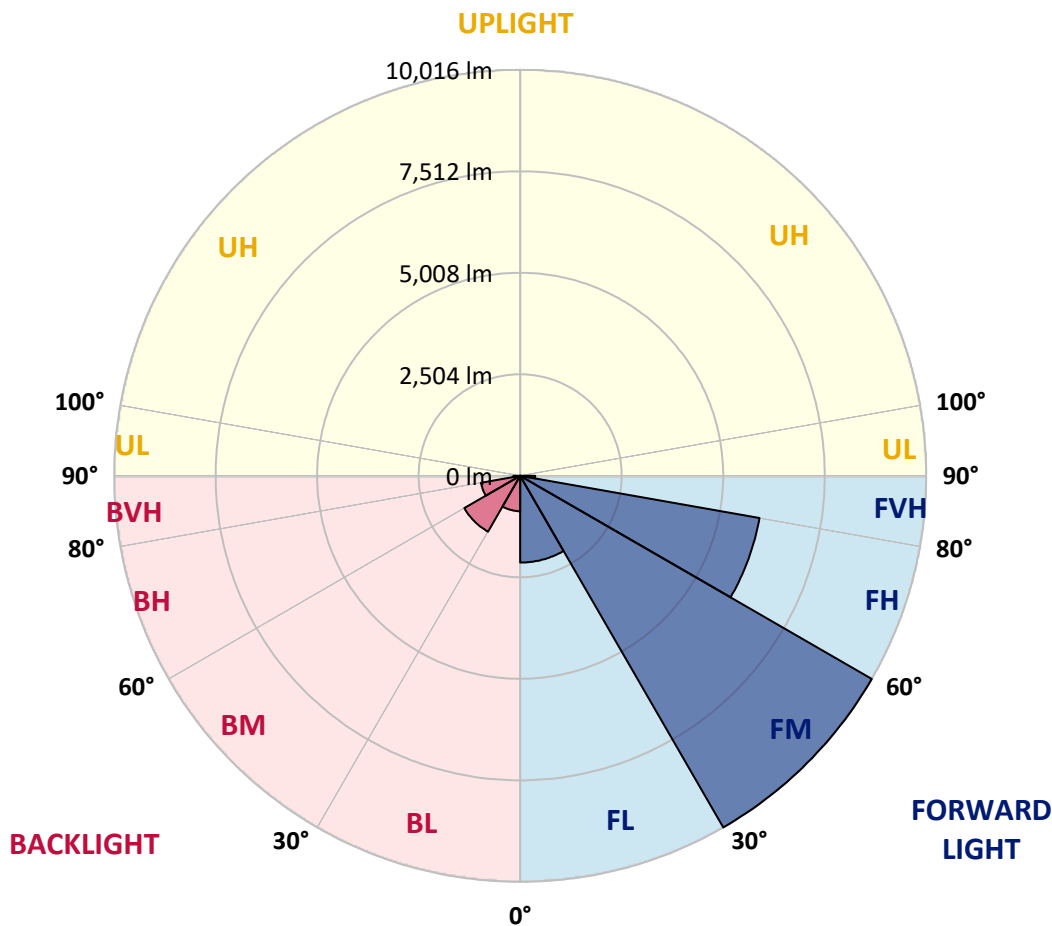
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2141.4	9.7			
FM (30°-60°)	10015.9	45.2			
FH (60°-80°)	5994.1	27.1			G3/7500
FVH (80°-90°)	371.5	1.7			G3/500
BL (0°-30°)	872.9	3.9	B2/1000		
BM (30°-60°)	1591.3	7.2	B2/2500		
BH (60°-80°)	980.3	4.4	B2/1000		G2/1000
BVH (80°-90°)	169.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2768.3	2768.3	2768.3	2768.3	2768.3	2768.3	2768.3	2768.3	2768.3	2768.3	2768.3
2.5°	3528.1	3501.9	3499.0	3458.2	3420.4	3318.5	3245.7	3117.6	2989.6	2986.6	2858.6
5°	4078.3	4052.1	4037.5	3988.0	3924.0	3790.1	3659.1	3461.1	3242.8	3228.3	2986.6
7.5°	4450.9	4427.6	4398.5	4378.1	4317.0	4197.6	4037.5	3801.7	3501.9	3472.8	3135.1
10°	4701.2	4686.7	4680.8	4666.3	4628.4	4532.4	4378.1	4127.7	3761.0	3728.9	3292.3
12.5°	4808.9	4803.1	4829.3	4870.0	4884.6	4846.8	4698.3	4462.5	4046.2	4011.3	3481.5
15°	4683.7	4689.6	4756.5	4896.2	5044.7	5126.2	5038.9	4808.9	4369.4	4319.9	3702.7
17.5°	4625.5	4634.3	4680.8	4814.7	5024.3	5277.6	5318.3	5137.9	4680.8	4611.0	3935.6
20°	4727.4	4739.0	4774.0	4878.8	5024.3	5295.0	5507.5	5452.2	4986.5	4913.7	4159.8
22.5°	4986.5	5001.0	4998.1	5065.1	5164.0	5350.4	5612.3	5749.2	5306.7	5225.2	4392.6
25°	5539.6	5527.9	5428.9	5396.9	5423.1	5542.5	5752.1	6034.4	5641.4	5559.9	4637.2
27.5°	6290.6	6276.0	6095.6	5932.5	5787.0	5839.4	5950.0	6264.4	5982.0	5888.9	4870.0
30°	7094.0	7076.6	6867.0	6602.1	6278.9	6203.3	6188.7	6465.3	6325.5	6226.6	5117.5
32.5°	7877.1	7862.5	7638.4	7329.8	6884.4	6657.4	6517.6	6689.4	6715.6	6619.5	5388.2
35°	8590.3	8590.3	8398.1	8031.3	7527.8	7184.3	6954.3	6965.9	7163.9	7053.3	5696.8
37.5°	9224.8	9221.9	9012.3	8651.4	8168.2	7775.2	7489.9	7300.7	7591.8	7495.7	6019.9
40°	9728.4	9708.1	9553.8	9239.4	8753.3	8363.2	8075.0	7693.7	8069.2	7981.9	6363.4
42.5°	10095.2	10083.6	9978.8	9705.2	9242.3	8875.5	8677.6	8188.5	8610.6	8523.3	6765.1
45°	10237.9	10261.1	10261.1	10002.1	9635.3	9300.5	9213.2	8732.9	9195.7	9108.4	7195.9
47.5°	10007.9	10069.0	10194.2	10211.7	9888.5	9661.5	9690.6	9280.2	9798.3	9751.7	7667.5
50°	9288.9	9402.4	9676.0	10170.9	9990.4	9938.0	10098.1	9839.1	10444.5	10430.0	8240.9
52.5°	7434.6	7711.1	8564.1	9451.9	9920.6	10066.1	10502.8	10467.8	11277.1	11300.4	8989.1
55°	5702.6	5807.4	6794.2	8305.0	9492.7	10025.4	10773.5	11082.0	12179.5	12208.6	9676.0
57.5°	4611.0	4680.8	5219.4	6794.2	8517.5	9804.1	10986.0	11440.1	12872.3	12948.0	10287.3
60°	3653.3	3755.1	4116.1	5199.0	7152.2	9271.4	11134.4	11838.9	13617.5	13731.0	11018.0
62.5°	2715.9	2765.4	3106.0	3851.2	5661.8	8313.7	11055.8	12272.6	14531.5	14668.3	11897.1
65°	1932.9	1976.5	2218.2	2739.2	4186.0	7018.3	10598.8	12595.7	15678.5	15818.2	12782.0
67.5°	1446.7	1464.2	1601.0	1915.4	2820.7	5452.2	9673.1	12540.4	16516.8	16642.0	13137.2
70°	1144.0	1149.8	1216.8	1385.6	1833.9	3795.9	8051.7	11728.3	16577.9	16688.6	12688.9
72.5°	949.0	946.1	983.9	1065.4	1277.9	2401.5	5964.6	10220.4	15792.0	15867.7	11437.2
75°	783.0	788.9	815.1	861.6	975.2	1583.6	3865.8	8153.6	13931.9	13850.4	9597.4
77.5°	657.9	655.0	666.6	707.4	788.9	1138.2	2264.7	5891.8	10325.2	10284.4	6299.3
80°	529.8	535.6	553.1	588.0	663.7	867.5	1339.0	3676.5	5539.6	5391.1	3009.9
82.5°	355.1	410.4	445.4	486.1	573.5	640.4	850.0	1868.8	2477.2	2439.4	1365.2
85°	168.8	224.1	331.8	378.4	465.8	401.7	576.4	890.8	1240.1	1225.5	492.0
87.5°	34.9	34.9	177.6	212.5	288.2	171.7	320.2	387.2	599.7	561.8	200.9
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°	2768.3	2768.3	2768.3	2768.3	2768.3	2768.3	2768.3	2768.3	2768.3	2768.3	2768.3
2.5°	2782.9	2704.3	2547.1	2421.9	2293.8	2221.1	2130.8	2087.2	2078.4	2055.1	2072.6
5°	2832.4	2678.1	2381.2	2186.1	2055.1	1991.1	1959.1	1947.4	1944.5	1938.7	1938.7
7.5°	2899.3	2663.5	2276.4	2078.4	1994.0	1973.6	1982.4	1999.8	2002.7	2008.6	2005.7
10°	2980.8	2666.4	2218.2	2052.2	2011.5	2014.4	2043.5	2066.8	2078.4	2087.2	2084.3
12.5°	3094.4	2701.4	2209.4	2069.7	2052.2	2063.9	2093.0	2116.3	2127.9	2130.8	2130.8
15°	3242.8	2774.1	2229.8	2107.5	2093.0	2101.7	2119.2	2127.9	2130.8	2127.9	2127.9
17.5°	3405.8	2861.5	2258.9	2130.8	2107.5	2098.8	2093.0	2084.3	2066.8	2055.1	2055.1
20°	3563.0	2940.1	2273.5	2127.9	2087.2	2052.2	2017.3	1973.6	1944.5	1921.2	1921.2
22.5°	3720.2	3012.8	2273.5	2095.9	2031.9	1964.9	1892.1	1822.3	1778.6	1749.5	1749.5
25°	3886.1	3082.7	2256.0	2040.6	1944.5	1848.5	1749.5	1662.2	1618.5	1589.4	1583.6
27.5°	4025.9	3123.5	2209.4	1962.0	1836.8	1714.6	1601.0	1510.8	1478.8	1452.6	1452.6
30°	4174.3	3149.7	2122.1	1860.1	1714.6	1574.8	1458.4	1385.6	1350.7	1312.8	1309.9
32.5°	4340.2	3167.1	2023.1	1752.4	1589.4	1440.9	1342.0	1283.7	1208.0	1167.3	1161.5
35°	4532.4	3190.4	1918.3	1630.1	1464.2	1330.3	1272.1	1176.0	1103.3	1068.3	1065.4
37.5°	4736.1	3207.9	1804.8	1522.4	1350.7	1257.5	1199.3	1085.8	1021.7	969.4	963.5
40°	4951.5	3207.9	1688.4	1417.6	1260.4	1225.5	1114.9	1013.0	905.3	879.1	873.3
42.5°	5190.2	3202.1	1571.9	1315.8	1176.0	1152.7	1065.4	957.7	902.4	879.1	873.3
45°	5443.5	3181.7	1461.3	1199.3	1088.7	1042.1	975.2	946.1	922.8	922.8	922.8
47.5°	5731.7	3164.2	1336.1	1094.5	1024.7	972.3	922.8	905.3	902.4	911.1	919.9
50°	6101.4	3158.4	1231.3	1018.8	975.2	914.0	908.2	893.7	896.6	896.6	896.6
52.5°	6549.7	3106.0	1132.4	963.5	925.7	852.9	870.4	884.9	890.8	887.8	884.9
55°	6878.6	3012.8	1047.9	925.7	890.8	829.6	852.9	876.2	882.0	873.3	873.3
57.5°	7175.5	2881.9	981.0	896.6	867.5	815.1	841.3	864.6	858.7	855.8	852.9
60°	7516.1	2756.7	928.6	882.0	844.2	809.2	832.5	847.1	838.4	832.5	829.6
62.5°	7885.8	2634.4	890.8	882.0	826.7	806.3	823.8	829.6	812.2	806.3	806.3
65°	8057.5	2442.3	850.0	882.0	818.0	800.5	806.3	800.5	783.0	783.0	780.1
67.5°	7775.2	2125.0	797.6	870.4	829.6	791.8	780.1	771.4	751.0	751.0	745.2
70°	6995.0	1746.6	721.9	832.5	832.5	788.9	745.2	724.8	701.5	710.3	698.6
72.5°	5976.2	1385.6	628.8	768.5	815.1	786.0	707.4	675.3	655.0	663.7	646.2
75°	4840.9	1074.1	518.2	666.6	771.4	771.4	669.5	625.9	602.6	602.6	582.2
77.5°	3085.6	794.7	422.1	553.1	692.8	751.0	637.5	570.5	535.6	526.9	512.3
80°	1528.3	558.9	346.4	439.6	590.9	704.5	614.2	506.5	457.0	439.6	413.4
82.5°	812.2	387.2	276.5	343.5	471.6	634.6	585.1	436.6	375.5	349.3	320.2
85°	363.9	238.7	221.2	262.0	358.0	521.1	526.9	358.0	288.2	343.5	253.3
87.5°	133.9	107.7	107.7	133.9	206.7	218.3	372.6	230.0	183.4	125.2	99.0
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)