

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: P399355

Luminaire Tested: **ARCH-L-PA3-130-740-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399355
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-PA3-130-740-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21273 lumens
Efficiency: N/A
Efficacy: 159.9 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

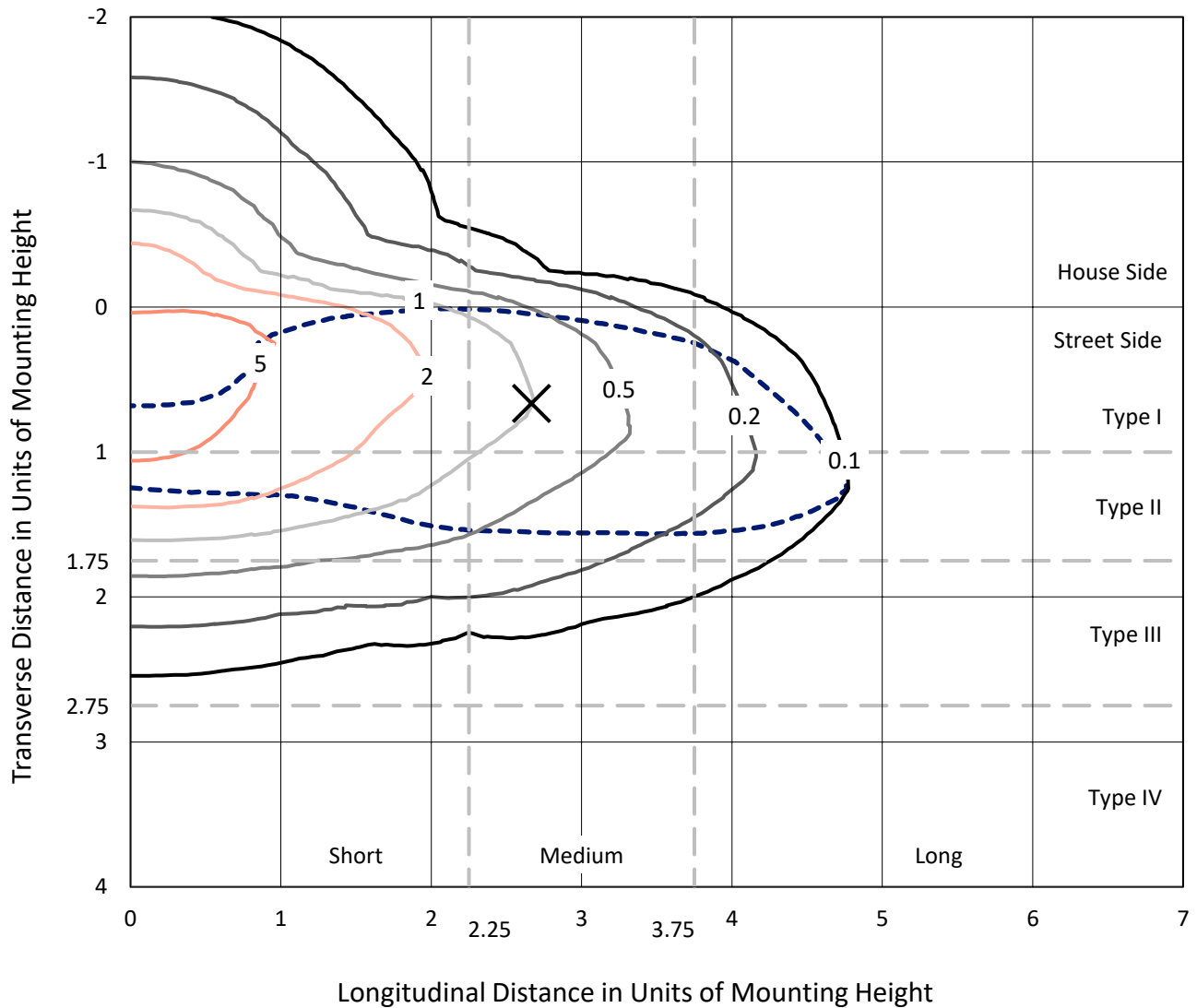
Input Watts (W): 133
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

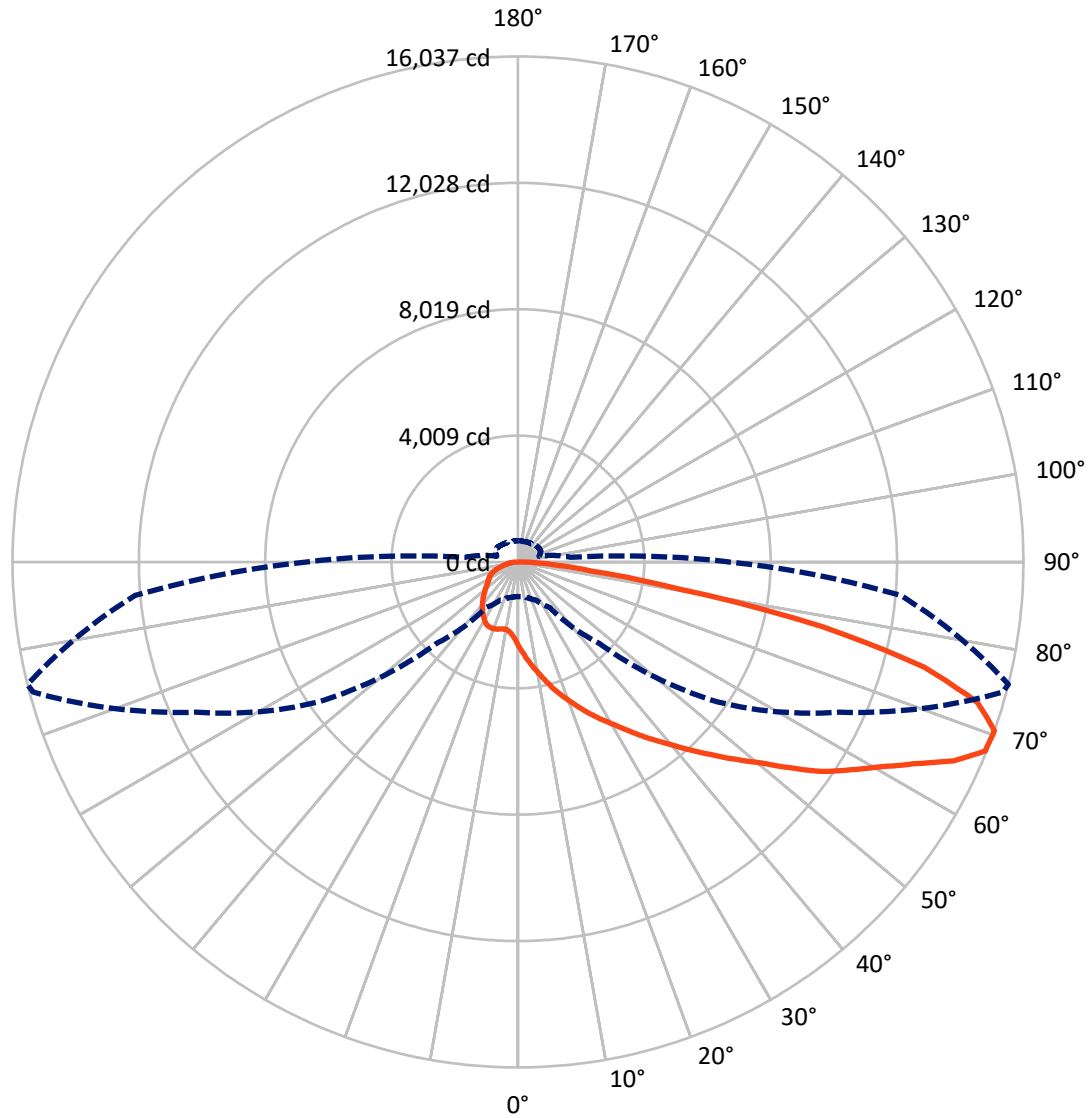
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	3473.0	0.0	3473.0
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	17800.0	0.0	17800.0
	% Fixture	83.7	0.0	83.7
Total	Lumens	21273.0	0.0	21273.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.4	1.3
10°-20°	939.4	4.4
20°-30°	1680.8	7.9
30°-40°	2718.9	12.8
40°-50°	3933.3	18.5
50°-60°	4501.9	21.2
60°-70°	4141.3	19.5
70°-80°	2560.9	12.0
80°-90°	520.0	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°	21273.0	100.0
0°-180°	21273.0	100.0

Coefficient of Utilization

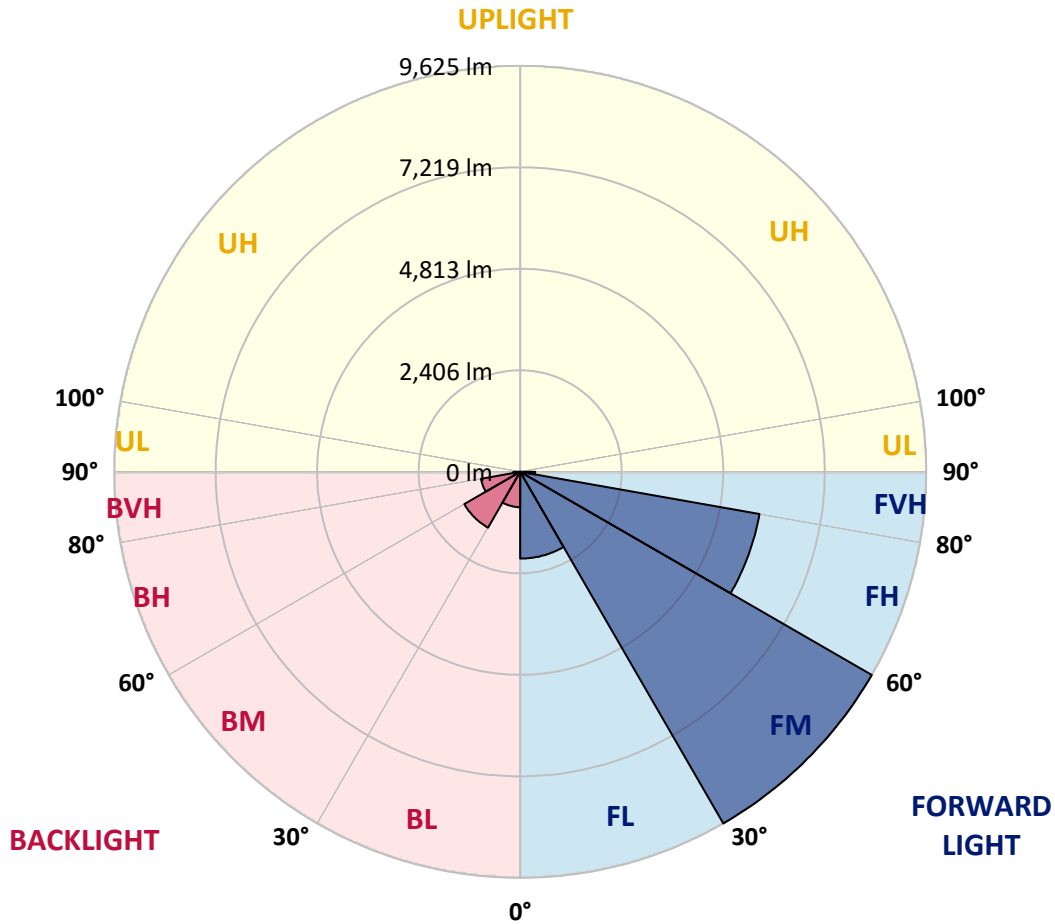


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2057.8	9.7			
FM (30°-60°)	9625.0	45.2			
FH (60°-80°)	5760.2	27.1			G3/7500
FVH (80°-90°)	357.0	1.7			G3/500
BL (0°-30°)	838.8	3.9	B2/1000		
BM (30°-60°)	1529.2	7.2	B2/2500		
BH (60°-80°)	942.0	4.4	B2/1000		G2/1000
BVH (80°-90°)	163.0	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°	2660.3	2660.3	2660.3	2660.3	2660.3	2660.3	2660.3	2660.3	2660.3	2660.3	2660.3
2.5°	3390.4	3365.2	3362.4	3323.3	3286.9	3189.0	3119.0	2996.0	2872.9	2870.1	2747.0
5°	3919.1	3893.9	3879.9	3832.4	3770.8	3642.1	3516.3	3326.0	3116.2	3102.3	2870.1
7.5°	4277.1	4254.8	4226.8	4207.2	4148.5	4033.8	3879.9	3653.3	3365.2	3337.2	3012.7
10°	4517.7	4503.7	4498.1	4484.2	4447.8	4355.5	4207.2	3966.6	3614.2	3583.4	3163.8
12.5°	4621.2	4615.6	4640.8	4680.0	4694.0	4657.6	4514.9	4288.3	3888.3	3854.7	3345.6
15°	4500.9	4506.5	4570.9	4705.1	4847.8	4926.1	4842.2	4621.2	4198.8	4151.3	3558.2
17.5°	4445.0	4453.4	4498.1	4626.8	4828.2	5071.6	5110.8	4937.3	4498.1	4431.0	3782.0
20°	4542.9	4554.1	4587.7	4688.4	4828.2	5088.4	5292.6	5239.4	4791.9	4721.9	3997.4
22.5°	4791.9	4805.8	4803.0	4867.4	4962.5	5141.5	5393.3	5524.8	5099.6	5021.2	4221.2
25°	5323.4	5312.2	5217.1	5186.3	5211.5	5326.2	5527.6	5798.9	5421.3	5342.9	4456.2
27.5°	6045.1	6031.1	5857.7	5701.0	5561.1	5611.5	5717.8	6019.9	5748.6	5659.0	4680.0
30°	6817.1	6800.4	6598.9	6344.4	6033.9	5961.2	5947.2	6212.9	6078.6	5983.5	4917.7
32.5°	7569.6	7555.6	7340.2	7043.7	6615.7	6397.5	6263.3	6428.3	6453.5	6361.2	5177.9
35°	8255.0	8255.0	8070.4	7717.9	7233.9	6903.9	6682.9	6694.1	6884.3	6778.0	5474.4
37.5°	8864.8	8862.0	8660.6	8313.7	7849.4	7471.7	7197.6	7015.8	7295.5	7203.2	5784.9
40°	9348.7	9329.2	9180.9	8878.8	8411.6	8036.8	7759.8	7393.4	7754.3	7670.3	6115.0
42.5°	9701.2	9690.0	9589.3	9326.4	8881.6	8529.1	8338.9	7868.9	8274.6	8190.6	6501.0
45°	9838.3	9860.7	9860.7	9611.7	9259.2	8937.5	8853.6	8392.0	8836.8	8752.9	6915.0
47.5°	9617.3	9676.0	9796.3	9813.1	9502.6	9284.4	9312.4	8918.0	9415.9	9371.1	7368.2
50°	8926.3	9035.4	9298.4	9773.9	9600.5	9550.2	9704.0	9455.0	10036.9	10022.9	7919.3
52.5°	7144.4	7410.2	8229.8	9083.0	9533.4	9673.2	10092.8	10059.3	10836.9	10859.3	8638.2
55°	5480.0	5580.7	6529.0	7980.8	9122.2	9634.1	10353.0	10649.5	11704.1	11732.1	9298.4
57.5°	4431.0	4498.1	5015.6	6529.0	8185.0	9421.5	10557.2	10993.6	12369.9	12442.6	9885.8
60°	3510.7	3608.6	3955.5	4996.1	6873.1	8909.6	10699.9	11376.8	13086.0	13195.1	10588.0
62.5°	2609.9	2657.5	2984.8	3700.9	5440.8	7989.2	10624.3	11793.6	13964.4	14095.8	11432.8
65°	1857.4	1899.4	2131.6	2632.3	4022.6	6744.4	10185.2	12104.1	15066.5	15200.8	12283.2
67.5°	1390.3	1407.1	1538.5	1840.7	2710.6	5239.4	9295.6	12051.0	15872.2	15992.4	12624.4
70°	1099.4	1105.0	1169.3	1331.5	1762.3	3647.7	7737.5	11270.5	15930.9	16037.2	12193.6
72.5°	911.9	909.1	945.5	1023.8	1228.0	2307.8	5731.8	9821.5	15175.6	15248.4	10990.8
75°	752.5	758.1	783.3	828.0	937.1	1521.8	3714.9	7835.4	13388.1	13309.8	9222.9
77.5°	632.2	629.4	640.6	679.8	758.1	1093.8	2176.3	5661.8	9922.2	9883.0	6053.5
80°	509.1	514.7	531.5	565.1	637.8	833.6	1286.8	3533.1	5323.4	5180.7	2892.5
82.5°	341.3	394.4	428.0	467.2	551.1	615.4	816.8	1795.9	2380.5	2344.2	1312.0
85°	162.2	215.4	318.9	363.7	447.6	386.0	553.9	856.0	1191.7	1177.7	472.8
87.5°	33.6	33.6	170.6	204.2	276.9	165.0	307.7	372.0	576.3	539.9	193.0
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°	2660.3	2660.3	2660.3	2660.3	2660.3	2660.3	2660.3	2660.3	2660.3	2660.3	2660.3
2.5°	2674.3	2598.7	2447.7	2327.4	2204.3	2134.4	2047.7	2005.7	1997.3	1974.9	1991.7
5°	2721.8	2573.6	2288.2	2100.8	1974.9	1913.4	1882.6	1871.4	1868.6	1863.0	1863.0
7.5°	2786.2	2559.6	2187.5	1997.3	1916.2	1896.6	1905.0	1921.8	1924.6	1930.2	1927.4
10°	2864.5	2562.4	2131.6	1972.1	1933.0	1935.8	1963.7	1986.1	1997.3	2005.7	2002.9
12.5°	2973.6	2595.9	2123.2	1988.9	1972.1	1983.3	2011.3	2033.7	2044.9	2047.7	2047.7
15°	3116.2	2665.9	2142.8	2025.3	2011.3	2019.7	2036.5	2044.9	2047.7	2044.9	2044.9
17.5°	3272.9	2749.8	2170.7	2047.7	2025.3	2016.9	2011.3	2002.9	1986.1	1974.9	1974.9
20°	3424.0	2825.3	2184.7	2044.9	2005.7	1972.1	1938.6	1896.6	1868.6	1846.3	1846.3
22.5°	3575.0	2895.3	2184.7	2014.1	1952.6	1888.2	1818.3	1751.1	1709.2	1681.2	1681.2
25°	3734.5	2962.4	2167.9	1960.9	1868.6	1776.3	1681.2	1597.3	1555.3	1527.4	1521.8
27.5°	3868.7	3001.6	2123.2	1885.4	1765.1	1647.6	1538.5	1451.8	1421.1	1395.9	1395.9
30°	4011.4	3026.7	2039.3	1787.5	1647.6	1513.4	1401.5	1331.5	1298.0	1261.6	1258.8
32.5°	4170.8	3043.5	1944.2	1684.0	1527.4	1384.7	1289.6	1233.6	1160.9	1121.7	1116.1
35°	4355.5	3065.9	1843.5	1566.5	1407.1	1278.4	1222.4	1130.1	1060.2	1026.6	1023.8
37.5°	4551.3	3082.7	1734.4	1463.0	1298.0	1208.5	1152.5	1043.4	981.9	931.5	925.9
40°	4758.3	3082.7	1622.5	1362.3	1211.3	1177.7	1071.4	973.5	870.0	844.8	839.2
42.5°	4987.7	3077.1	1510.6	1264.4	1130.1	1107.8	1023.8	920.3	867.2	844.8	839.2
45°	5231.0	3057.5	1404.3	1152.5	1046.2	1001.5	937.1	909.1	886.8	886.8	886.8
47.5°	5508.0	3040.7	1284.0	1051.8	984.7	934.3	886.8	870.0	867.2	875.6	884.0
50°	5863.2	3035.1	1183.3	979.1	937.1	878.4	872.8	858.8	861.6	861.6	861.6
52.5°	6294.0	2984.8	1088.2	925.9	889.6	819.6	836.4	850.4	856.0	853.2	850.4
55°	6610.1	2895.3	1007.0	889.6	856.0	797.2	819.6	842.0	847.6	839.2	839.2
57.5°	6895.5	2769.4	942.7	861.6	833.6	783.3	808.4	830.8	825.2	822.4	819.6
60°	7222.8	2649.1	892.4	847.6	811.2	777.7	800.0	814.0	805.6	800.0	797.2
62.5°	7578.0	2531.6	856.0	847.6	794.4	774.9	791.6	797.2	780.5	774.9	774.9
65°	7743.1	2347.0	816.8	847.6	786.1	769.3	774.9	769.3	752.5	752.5	749.7
67.5°	7471.7	2042.1	766.5	836.4	797.2	760.9	749.7	741.3	721.7	721.7	716.1
70°	6722.0	1678.4	693.7	800.0	800.0	758.1	716.1	696.5	674.2	682.6	671.4
72.5°	5743.0	1331.5	604.2	738.5	783.3	755.3	679.8	649.0	629.4	637.8	621.0
75°	4652.0	1032.2	497.9	640.6	741.3	741.3	643.4	601.4	579.1	579.1	559.5
77.5°	2965.2	763.7	405.6	531.5	665.8	721.7	612.6	548.3	514.7	506.3	492.3
80°	1468.6	537.1	332.9	422.4	567.9	677.0	590.2	486.7	439.2	422.4	397.2
82.5°	780.5	372.0	265.7	330.1	453.2	609.8	562.3	419.6	360.9	335.7	307.7
85°	349.7	229.4	212.6	251.8	344.1	500.7	506.3	344.1	276.9	330.1	243.4
87.5°	128.7	103.5	103.5	128.7	198.6	209.8	358.1	221.0	176.2	120.3	95.1
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)