

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: P399670

Luminaire Tested: **ARCH-L-PA3-170-827-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399670
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-PA3-170-827-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19334 lumens
Efficiency: N/A
Efficacy: 111.8 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

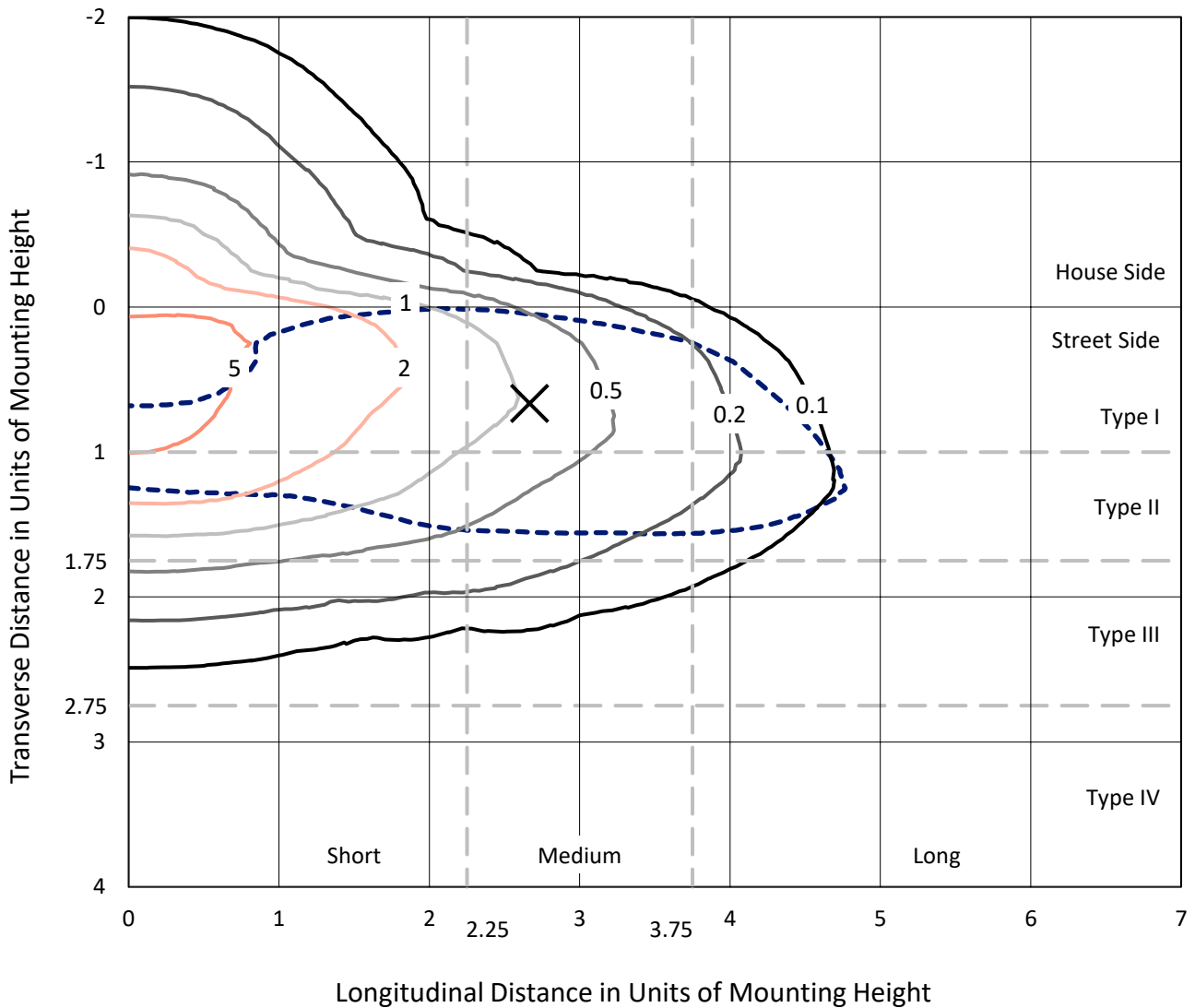
Input Watts (W): 173
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

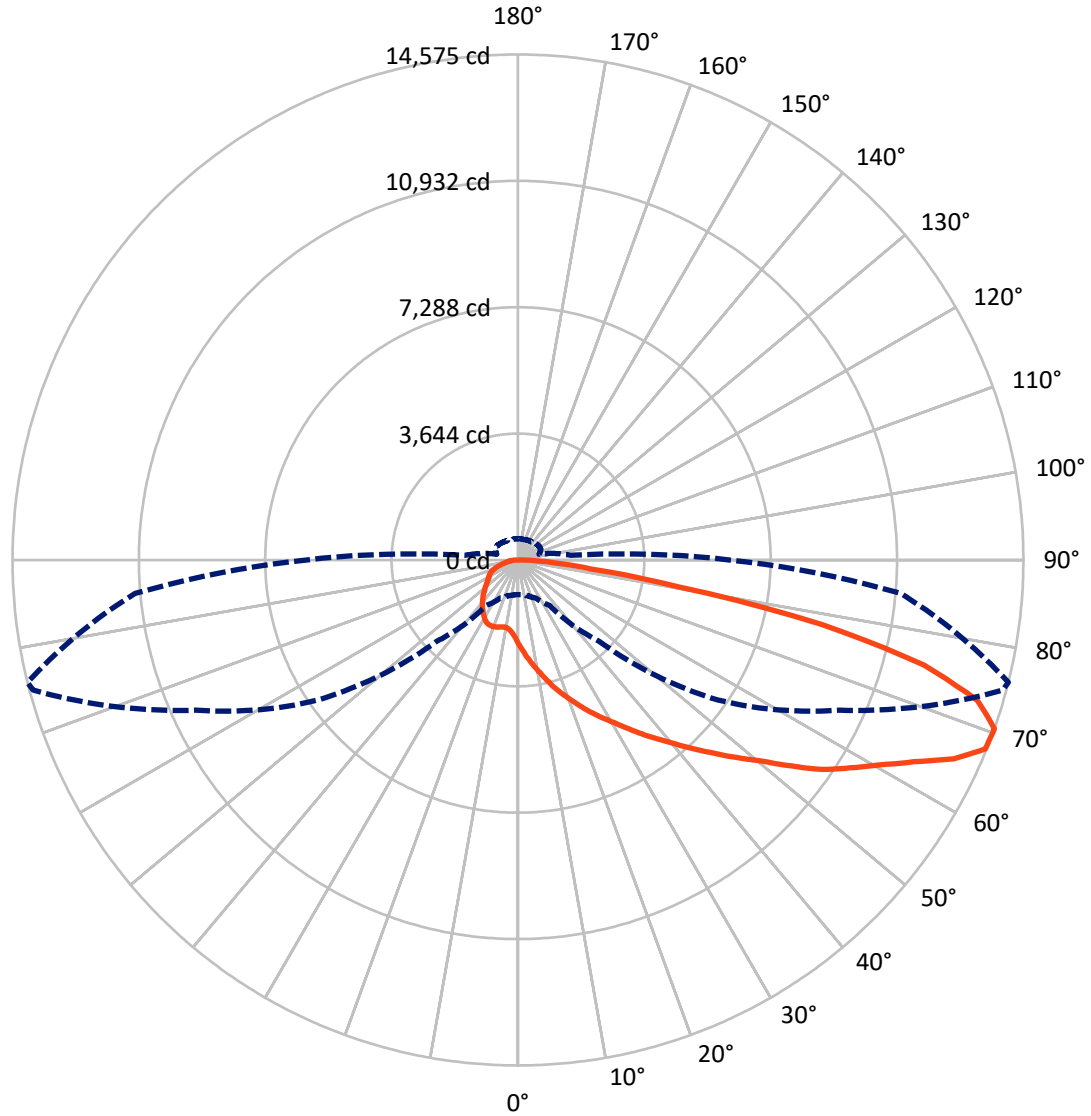
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Medium - N/A

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CATALOG NUMBER: ARCH-L-PA3-170-827-U-T2R

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	3156.5	0.0	3156.5
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	16177.5	0.0	16177.5
	% Fixture	83.7	0.0	83.7
Total	Lumens	19334.0	0.0	19334.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.2	1.3
10°-20°	853.8	4.4
20°-30°	1527.6	7.9
30°-40°	2471.1	12.8
40°-50°	3574.8	18.5
50°-60°	4091.6	21.2
60°-70°	3763.8	19.5
70°-80°	2327.5	12.0
80°-90°	472.6	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°	19334.0	100.0
0°-180°	19334.0	100.0

Coefficient of Utilization



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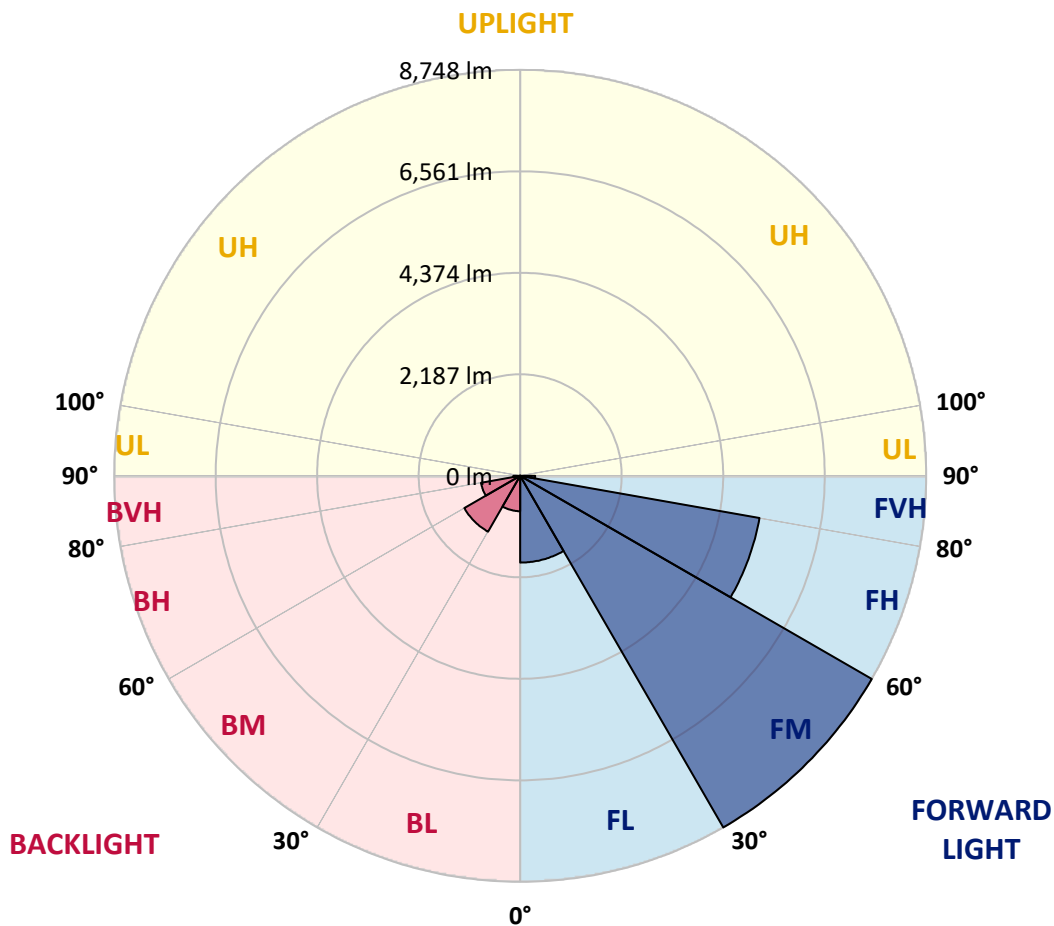
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1870.2	9.7			
FM (30°-60°)	8747.7	45.2			
FH (60°-80°)	5235.1	27.1			G3/7500
FVH (80°-90°)	324.5	1.7			G3/500
BL (0°-30°)	762.4	3.9	B2/1000		
BM (30°-60°)	1389.8	7.2	B2/2500		
BH (60°-80°)	856.1	4.4	B2/1000		G2/1000
BVH (80°-90°)	148.2	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°	2417.8	2417.8	2417.8	2417.8	2417.8	2417.8	2417.8	2417.8	2417.8	2417.8	2417.8
2.5°	3081.4	3058.5	3055.9	3020.3	2987.3	2898.3	2834.7	2722.9	2611.0	2608.5	2496.6
5°	3561.9	3539.0	3526.3	3483.1	3427.1	3310.2	3195.8	3022.9	2832.2	2819.5	2608.5
7.5°	3887.3	3867.0	3841.5	3823.7	3770.3	3666.1	3526.3	3320.3	3058.5	3033.1	2738.1
10°	4105.9	4093.2	4088.1	4075.4	4042.4	3958.5	3823.7	3605.1	3284.7	3256.8	2875.4
12.5°	4200.0	4194.9	4217.8	4253.4	4266.1	4233.1	4103.4	3897.5	3533.9	3503.4	3040.7
15°	4090.7	4095.8	4154.2	4276.3	4405.9	4477.1	4400.9	4200.0	3816.1	3772.9	3233.9
17.5°	4039.8	4047.5	4088.1	4205.1	4388.1	4609.3	4644.9	4487.3	4088.1	4027.1	3437.3
20°	4128.8	4139.0	4169.5	4261.0	4388.1	4624.6	4810.2	4761.9	4355.1	4291.5	3633.1
22.5°	4355.1	4367.8	4365.3	4423.7	4510.2	4672.9	4901.7	5021.2	4634.8	4563.6	3836.4
25°	4838.1	4828.0	4741.5	4713.6	4736.4	4840.7	5023.7	5270.3	4927.1	4855.9	4050.0
27.5°	5494.1	5481.4	5323.7	5181.4	5054.2	5100.0	5196.6	5471.2	5224.6	5143.2	4253.4
30°	6195.8	6180.5	5997.5	5766.1	5483.9	5417.8	5405.1	5646.6	5524.6	5438.1	4469.5
32.5°	6879.7	6867.0	6671.2	6401.7	6012.7	5814.4	5692.4	5842.4	5865.3	5781.4	4705.9
35°	7502.6	7502.6	7334.8	7014.4	6574.6	6274.6	6073.7	6083.9	6256.8	6160.2	4975.4
37.5°	8056.8	8054.2	7871.2	7555.9	7133.9	6790.7	6541.5	6376.3	6630.5	6546.6	5257.6
40°	8496.6	8478.8	8344.1	8069.5	7644.9	7304.2	7052.6	6719.5	7047.5	6971.2	5557.6
42.5°	8817.0	8806.8	8715.3	8476.3	8072.0	7751.7	7578.8	7151.7	7520.3	7444.1	5908.5
45°	8941.5	8961.9	8961.9	8735.6	8415.3	8122.9	8046.6	7627.1	8031.4	7955.1	6284.8
47.5°	8740.7	8794.1	8903.4	8918.7	8636.5	8438.1	8463.6	8105.1	8557.6	8517.0	6696.6
50°	8112.7	8211.9	8450.9	8883.1	8725.4	8679.7	8819.5	8593.2	9122.0	9109.3	7197.5
52.5°	6493.2	6734.8	7479.7	8255.1	8664.4	8791.5	9172.9	9142.4	9849.2	9869.5	7850.9
55°	4980.5	5072.0	5933.9	7253.4	8290.7	8755.9	9409.3	9678.8	10637.3	10662.7	8450.9
57.5°	4027.1	4088.1	4558.5	5933.9	7439.0	8562.7	9594.9	9991.5	11242.4	11308.5	8984.8
60°	3190.7	3279.7	3594.9	4540.7	6246.6	8097.5	9724.6	10339.8	11893.2	11992.4	9622.9
62.5°	2372.0	2415.3	2712.7	3363.6	4944.9	7261.0	9655.9	10718.7	12691.5	12811.0	10390.7
65°	1688.1	1726.3	1937.3	2392.4	3655.9	6129.7	9256.8	11000.9	13693.2	13815.3	11163.6
67.5°	1263.6	1278.8	1398.3	1672.9	2463.6	4761.9	8448.3	10952.6	14425.4	14534.8	11473.7
70°	999.2	1004.2	1062.7	1210.2	1601.7	3315.3	7032.2	10243.2	14478.8	14575.4	11082.2
72.5°	828.8	826.3	859.3	930.5	1116.1	2097.5	5209.3	8926.3	13792.4	13858.5	9989.0
75°	683.9	689.0	711.9	752.5	851.7	1383.1	3376.3	7121.2	12167.8	12096.6	8382.2
77.5°	574.6	572.0	582.2	617.8	689.0	994.1	1978.0	5145.8	9017.8	8982.2	5501.7
80°	462.7	467.8	483.1	513.6	579.7	757.6	1169.5	3211.0	4838.1	4708.5	2628.8
82.5°	310.2	358.5	389.0	424.6	500.8	559.3	742.4	1632.2	2163.6	2130.5	1192.4
85°	147.5	195.8	289.8	330.5	406.8	350.8	503.4	778.0	1083.1	1070.3	429.7
87.5°	30.5	30.5	155.1	185.6	251.7	150.0	279.7	338.1	523.7	490.7	175.4
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°	2417.8	2417.8	2417.8	2417.8	2417.8	2417.8	2417.8	2417.8	2417.8	2417.8	2417.8
2.5°	2430.5	2361.9	2224.6	2115.3	2003.4	1939.8	1861.0	1822.9	1815.3	1794.9	1810.2
5°	2473.7	2339.0	2079.7	1909.3	1794.9	1739.0	1711.0	1700.8	1698.3	1693.2	1693.2
7.5°	2532.2	2326.3	1988.1	1815.3	1741.5	1723.7	1731.4	1746.6	1749.2	1754.2	1751.7
10°	2603.4	2328.8	1937.3	1792.4	1756.8	1759.3	1784.7	1805.1	1815.3	1822.9	1820.3
12.5°	2702.5	2359.3	1929.7	1807.6	1792.4	1802.5	1828.0	1848.3	1858.5	1861.0	1861.0
15°	2832.2	2422.9	1947.5	1840.7	1828.0	1835.6	1850.8	1858.5	1861.0	1858.5	1858.5
17.5°	2974.6	2499.2	1972.9	1861.0	1840.7	1833.1	1828.0	1820.3	1805.1	1794.9	1794.9
20°	3111.9	2567.8	1985.6	1858.5	1822.9	1792.4	1761.9	1723.7	1698.3	1678.0	1678.0
22.5°	3249.2	2631.4	1985.6	1830.5	1774.6	1716.1	1652.5	1591.5	1553.4	1528.0	1528.0
25°	3394.1	2692.4	1970.3	1782.2	1698.3	1614.4	1528.0	1451.7	1413.6	1388.1	1383.1
27.5°	3516.1	2728.0	1929.7	1713.6	1604.2	1497.5	1398.3	1319.5	1291.5	1268.6	1268.6
30°	3645.8	2750.9	1853.4	1624.6	1497.5	1375.4	1273.7	1210.2	1179.7	1146.6	1144.1
32.5°	3790.7	2766.1	1767.0	1530.5	1388.1	1258.5	1172.0	1121.2	1055.1	1019.5	1014.4
35°	3958.5	2786.4	1675.4	1423.7	1278.8	1161.9	1111.0	1027.1	963.6	933.1	930.5
37.5°	4136.4	2801.7	1576.3	1329.7	1179.7	1098.3	1047.5	948.3	892.4	846.6	841.5
40°	4324.6	2801.7	1474.6	1238.1	1100.8	1070.3	973.7	884.7	790.7	767.8	762.7
42.5°	4533.1	2796.6	1372.9	1149.2	1027.1	1006.8	930.5	836.4	788.1	767.8	762.7
45°	4754.2	2778.8	1276.3	1047.5	950.8	910.2	851.7	826.3	805.9	805.9	805.9
47.5°	5005.9	2763.6	1167.0	955.9	894.9	849.2	805.9	790.7	788.1	795.8	803.4
50°	5328.8	2758.5	1075.4	889.8	851.7	798.3	793.2	780.5	783.1	783.1	783.1
52.5°	5720.3	2712.7	989.0	841.5	808.5	744.9	760.2	772.9	778.0	775.4	772.9
55°	6007.6	2631.4	915.3	808.5	778.0	724.6	744.9	765.3	770.3	762.7	762.7
57.5°	6267.0	2517.0	856.8	783.1	757.6	711.9	734.7	755.1	750.0	747.5	744.9
60°	6564.4	2407.6	811.0	770.3	737.3	706.8	727.1	739.8	732.2	727.1	724.6
62.5°	6887.3	2300.9	778.0	770.3	722.0	704.2	719.5	724.6	709.3	704.2	704.2
65°	7037.3	2133.1	742.4	770.3	714.4	699.2	704.2	699.2	683.9	683.9	681.4
67.5°	6790.7	1855.9	696.6	760.2	724.6	691.5	681.4	673.7	655.9	655.9	650.8
70°	6109.3	1525.4	630.5	727.1	727.1	689.0	650.8	633.1	612.7	620.3	610.2
72.5°	5219.5	1210.2	549.2	671.2	711.9	686.4	617.8	589.8	572.0	579.7	564.4
75°	4228.0	938.1	452.5	582.2	673.7	673.7	584.7	546.6	526.3	526.3	508.5
77.5°	2694.9	694.1	368.6	483.1	605.1	655.9	556.8	498.3	467.8	460.2	447.5
80°	1334.7	488.1	302.5	383.9	516.1	615.3	536.4	442.4	399.2	383.9	361.0
82.5°	709.3	338.1	241.5	300.0	411.9	554.2	511.0	381.4	328.0	305.1	279.7
85°	317.8	208.5	193.2	228.8	312.7	455.1	460.2	312.7	251.7	300.0	221.2
87.5°	116.9	94.1	94.1	116.9	180.5	190.7	325.4	200.8	160.2	109.3	86.4
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)