

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: P400255

Luminaire Tested: **ARCH-L-PA3-250-830-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400255
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-PA3-250-830-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26851 lumens
Efficiency: N/A
Efficacy: 107.0 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

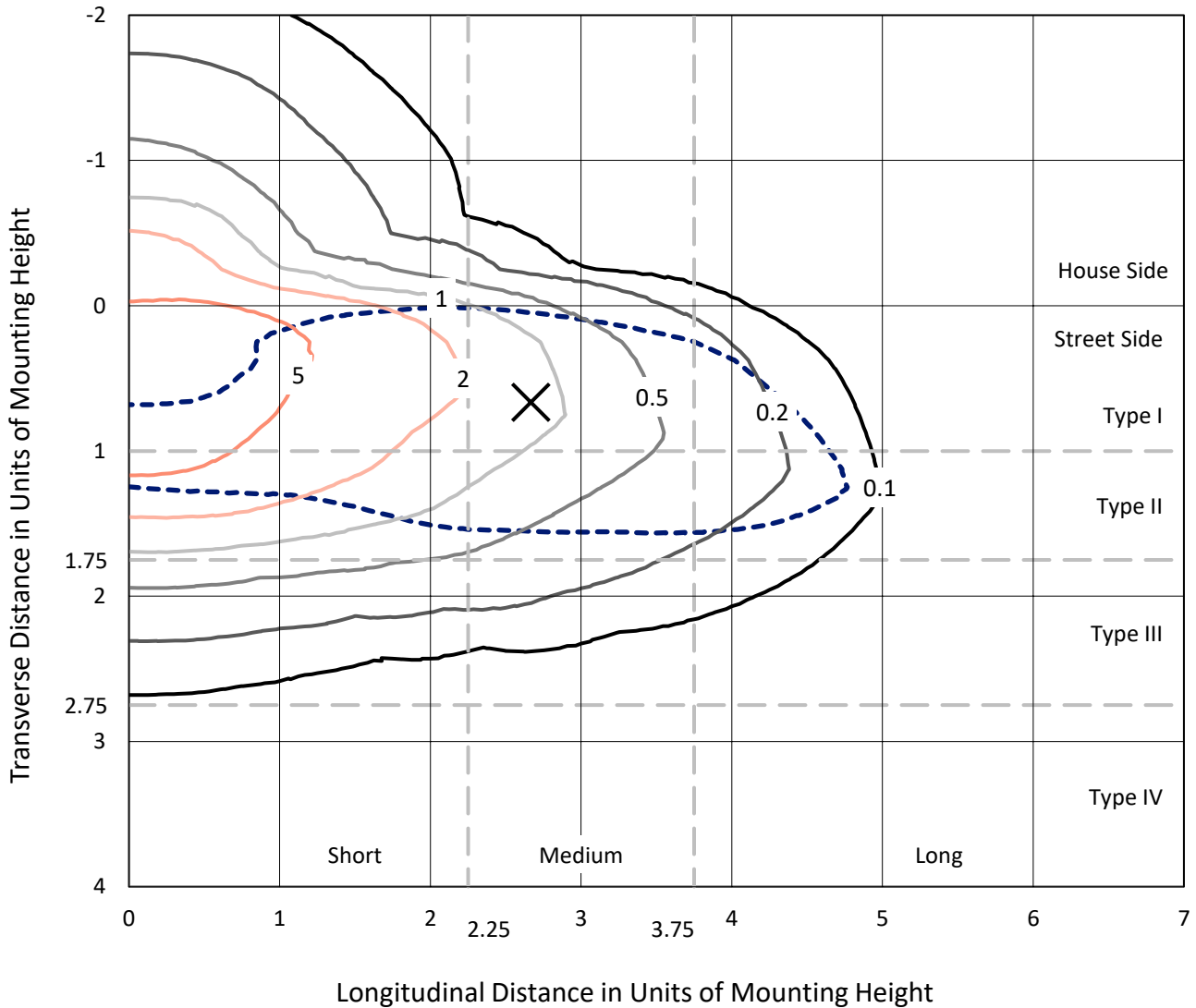
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

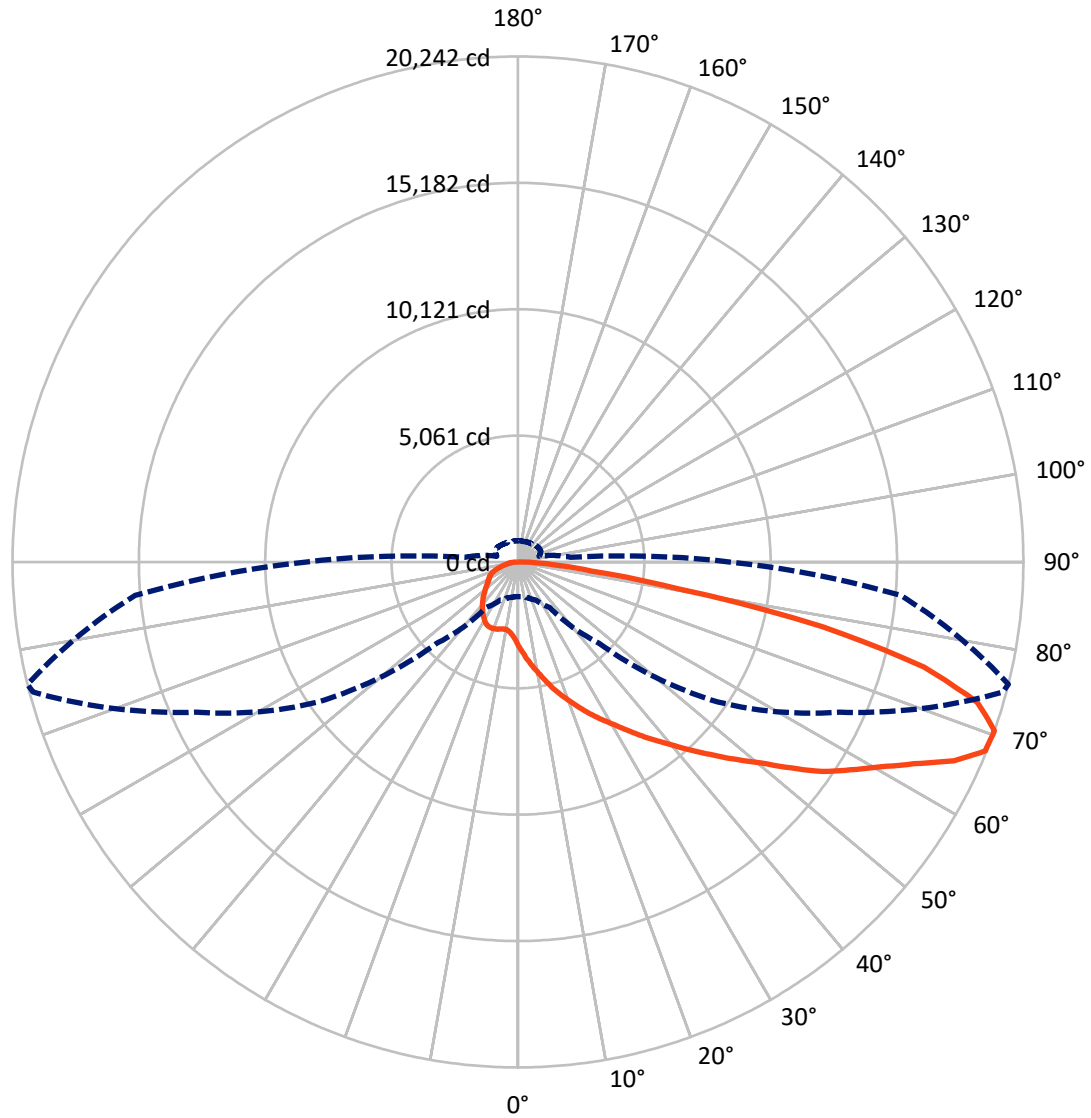
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	4383.7	0.0	4383.7
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	22467.3	0.0	22467.3
	% Fixture	83.7	0.0	83.7
Total	Lumens	26851.0	0.0	26851.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.9	1.3
10°-20°	1185.8	4.4
20°-30°	2121.5	7.9
30°-40°	3431.8	12.8
40°-50°	4964.7	18.5
50°-60°	5682.4	21.2
60°-70°	5227.1	19.5
70°-80°	3232.4	12.0
80°-90°	656.4	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°	26851.0	100.0
0°-180°	26851.0	100.0

Coefficient of Utilization



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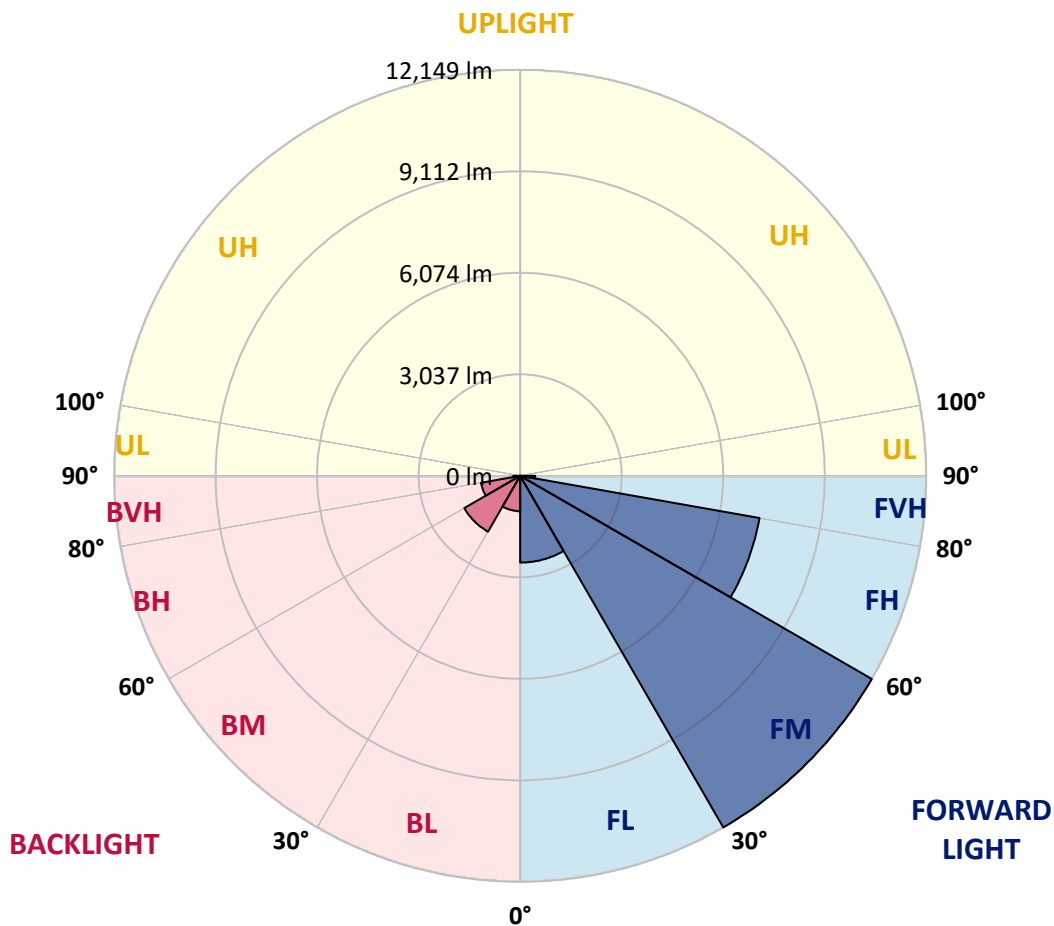
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2597.4	9.7			
FM (30°-60°)	12148.8	45.2			
FH (60°-80°)	7270.5	27.1			G3/7500
FVH (80°-90°)	450.6	1.7			G3/500
BL (0°-30°)	1058.8	3.9	B3/2500		
BM (30°-60°)	1930.1	7.2	B2/2500		
BH (60°-80°)	1189.0	4.4	B3/2500		G3/2500
BVH (80°-90°)	205.8	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°	3357.8	3357.8	3357.8	3357.8	3357.8	3357.8	3357.8	3357.8	3357.8	3357.8	3357.8
2.5°	4279.4	4247.6	4244.1	4194.6	4148.7	4025.2	3936.9	3781.5	3626.2	3622.6	3467.3
5°	4946.7	4914.9	4897.3	4837.3	4759.6	4597.2	4438.3	4198.2	3933.4	3915.7	3622.6
7.5°	5398.7	5370.4	5335.1	5310.4	5236.2	5091.5	4897.3	4611.3	4247.6	4212.3	3802.7
10°	5702.3	5684.7	5677.6	5659.9	5614.0	5497.5	5310.4	5006.7	4561.9	4523.0	3993.4
12.5°	5833.0	5825.9	5857.7	5907.1	5924.8	5878.9	5698.8	5412.8	4907.9	4865.5	4222.9
15°	5681.1	5688.2	5769.4	5938.9	6119.0	6217.8	6111.9	5833.0	5299.8	5239.8	4491.2
17.5°	5610.5	5621.1	5677.6	5840.0	6094.2	6401.4	6450.9	6231.9	5677.6	5592.9	4773.7
20°	5734.1	5748.2	5790.6	5917.7	6094.2	6422.6	6680.4	6613.3	6048.3	5960.1	5045.6
22.5°	6048.3	6066.0	6062.5	6143.7	6263.7	6489.7	6807.5	6973.4	6436.7	6337.9	5328.0
25°	6719.2	6705.1	6585.0	6546.2	6578.0	6722.7	6976.9	7319.4	6842.8	6743.9	5624.6
27.5°	7630.2	7612.5	7393.6	7195.9	7019.3	7082.9	7217.0	7598.4	7255.9	7142.9	5907.1
30°	8604.7	8583.5	8329.3	8008.0	7616.0	7524.2	7506.6	7842.0	7672.5	7552.5	6207.2
32.5°	9554.5	9536.8	9264.9	8890.7	8350.4	8075.0	7905.6	8113.9	8145.7	8029.1	6535.6
35°	10419.5	10419.5	10186.5	9741.6	9130.8	8714.1	8435.2	8449.3	8689.4	8555.2	6909.9
37.5°	11189.2	11185.7	10931.5	10493.7	9907.5	9430.9	9084.9	8855.4	9208.4	9091.9	7301.8
40°	11800.1	11775.4	11588.2	11206.9	10617.2	10144.1	9794.6	9332.0	9787.5	9681.6	7718.4
42.5°	12245.0	12230.8	12103.7	11771.8	11210.4	10765.5	10525.4	9932.3	10444.2	10338.3	8205.7
45°	12418.0	12446.2	12446.2	12132.0	11687.1	11281.0	11175.1	10592.5	11153.9	11048.0	8728.2
47.5°	12139.0	12213.2	12365.0	12386.2	11994.3	11718.9	11754.2	11256.3	11884.8	11828.3	9300.2
50°	11266.9	11404.6	11736.5	12336.8	12117.9	12054.3	12248.5	11934.3	12668.7	12651.0	9995.8
52.5°	9017.8	9353.2	10387.7	11464.6	12033.1	12209.7	12739.3	12696.9	13678.5	13706.7	10903.2
55°	6916.9	7044.0	8241.0	10073.5	11514.1	12160.2	13067.7	13441.9	14773.1	14808.4	11736.5
57.5°	5592.9	5677.6	6330.8	8241.0	10331.2	11891.9	13325.4	13876.2	15613.4	15705.2	12478.0
60°	4431.2	4554.8	4992.6	6306.1	8675.3	11245.7	13505.5	14359.9	16517.3	16655.0	13364.2
62.5°	3294.3	3354.3	3767.4	4671.3	6867.5	10084.1	13410.1	14886.0	17626.0	17791.9	14430.6
65°	2344.5	2397.4	2690.5	3322.5	5077.4	8512.9	12855.8	15278.0	19017.1	19186.6	15503.9
67.5°	1754.8	1776.0	1942.0	2323.3	3421.4	6613.3	11733.0	15210.9	20034.0	20185.8	15934.7
70°	1387.6	1394.7	1475.9	1680.7	2224.4	4604.2	9766.3	14225.8	20108.2	20242.3	15390.9
72.5°	1151.1	1147.5	1193.4	1292.3	1550.0	2912.9	7234.7	12396.8	19154.8	19246.6	13872.7
75°	949.8	956.9	988.6	1045.1	1182.8	1920.8	4689.0	9889.9	16898.6	16799.8	11641.2
77.5°	798.0	794.4	808.6	858.0	956.9	1380.6	2747.0	7146.4	12523.9	12474.5	7640.7
80°	642.6	649.7	670.9	713.2	805.0	1052.2	1624.2	4459.5	6719.2	6539.1	3650.9
82.5°	430.8	497.8	540.2	589.7	695.6	776.8	1031.0	2266.8	3004.7	2958.8	1656.0
85°	204.8	271.9	402.5	459.0	564.9	487.3	699.1	1080.4	1504.1	1486.5	596.7
87.5°	42.4	42.4	215.4	257.8	349.6	208.3	388.4	469.6	727.4	681.5	243.6
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°	3357.8	3357.8	3357.8	3357.8	3357.8	3357.8	3357.8	3357.8	3357.8	3357.8	3357.8
2.5°	3375.5	3280.2	3089.5	2937.7	2782.3	2694.0	2584.6	2531.6	2521.0	2492.8	2514.0
5°	3435.5	3248.4	2888.2	2651.7	2492.8	2415.1	2376.3	2362.1	2358.6	2351.5	2351.5
7.5°	3516.7	3230.7	2761.1	2521.0	2418.6	2393.9	2404.5	2425.7	2429.2	2436.3	2432.8
10°	3615.6	3234.3	2690.5	2489.2	2439.8	2443.3	2478.7	2506.9	2521.0	2531.6	2528.1
12.5°	3753.3	3276.6	2679.9	2510.4	2489.2	2503.4	2538.7	2566.9	2581.0	2584.6	2584.6
15°	3933.4	3364.9	2704.6	2556.3	2538.7	2549.3	2570.5	2581.0	2584.6	2581.0	2581.0
17.5°	4131.1	3470.8	2739.9	2584.6	2556.3	2545.7	2538.7	2528.1	2506.9	2492.8	2492.8
20°	4321.8	3566.2	2757.6	2581.0	2531.6	2489.2	2446.9	2393.9	2358.6	2330.4	2330.4
22.5°	4512.4	3654.4	2757.6	2542.2	2464.5	2383.3	2295.0	2210.3	2157.3	2122.0	2122.0
25°	4713.7	3739.2	2736.4	2475.1	2358.6	2242.1	2122.0	2016.1	1963.1	1927.8	1920.8
27.5°	4883.2	3788.6	2679.9	2379.8	2228.0	2079.7	1942.0	1832.5	1793.7	1761.9	1761.9
30°	5063.2	3820.4	2574.0	2256.2	2079.7	1910.2	1769.0	1680.7	1638.3	1592.4	1588.9
32.5°	5264.5	3841.6	2453.9	2125.6	1927.8	1747.8	1627.7	1557.1	1465.3	1415.9	1408.8
35°	5497.5	3869.8	2326.8	1977.3	1776.0	1613.6	1543.0	1426.5	1338.2	1295.8	1292.3
37.5°	5744.7	3891.0	2189.1	1846.6	1638.3	1525.3	1454.7	1317.0	1239.3	1175.8	1168.7
40°	6006.0	3891.0	2047.9	1719.5	1528.9	1486.5	1352.3	1228.7	1098.1	1066.3	1059.3
42.5°	6295.5	3883.9	1906.7	1595.9	1426.5	1398.2	1292.3	1161.6	1094.6	1066.3	1059.3
45°	6602.7	3859.2	1772.5	1454.7	1320.5	1264.0	1182.8	1147.5	1119.3	1119.3	1119.3
47.5°	6952.2	3838.0	1620.7	1327.6	1242.9	1179.3	1119.3	1098.1	1094.6	1105.2	1115.7
50°	7400.6	3831.0	1493.5	1235.8	1182.8	1108.7	1101.6	1084.0	1087.5	1087.5	1087.5
52.5°	7944.4	3767.4	1373.5	1168.7	1122.8	1034.5	1055.7	1073.4	1080.4	1076.9	1073.4
55°	8343.4	3654.4	1271.1	1122.8	1080.4	1006.3	1034.5	1062.8	1069.8	1059.3	1059.3
57.5°	8703.5	3495.5	1189.9	1087.5	1052.2	988.6	1020.4	1048.7	1041.6	1038.1	1034.5
60°	9116.6	3343.7	1126.3	1069.8	1023.9	981.6	1009.8	1027.5	1016.9	1009.8	1006.3
62.5°	9565.1	3195.4	1080.4	1069.8	1002.8	978.0	999.2	1006.3	985.1	978.0	978.0
65°	9773.4	2962.4	1031.0	1069.8	992.2	971.0	978.0	971.0	949.8	949.8	946.3
67.5°	9430.9	2577.5	967.5	1055.7	1006.3	960.4	946.3	935.7	911.0	911.0	903.9
70°	8484.6	2118.5	875.6	1009.8	1009.8	956.9	903.9	879.2	850.9	861.5	847.4
72.5°	7248.8	1680.7	762.7	932.1	988.6	953.3	858.0	819.2	794.4	805.0	783.8
75°	5871.8	1302.9	628.5	808.6	935.7	935.7	812.1	759.1	730.9	730.9	706.2
77.5°	3742.7	963.9	512.0	670.9	840.3	911.0	773.3	692.0	649.7	639.1	621.4
80°	1853.7	677.9	420.2	533.2	716.8	854.5	745.0	614.4	554.3	533.2	501.4
82.5°	985.1	469.6	335.4	416.6	572.0	769.7	709.7	529.6	455.5	423.7	388.4
85°	441.4	289.5	268.3	317.8	434.3	632.0	639.1	434.3	349.6	416.6	307.2
87.5°	162.4	130.6	130.6	162.4	250.7	264.8	451.9	278.9	222.4	151.8	120.0
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)