

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: P400282

Luminaire Tested: **ARCH-L-PA3-260-730-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400282
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-PA3-260-730-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31501 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

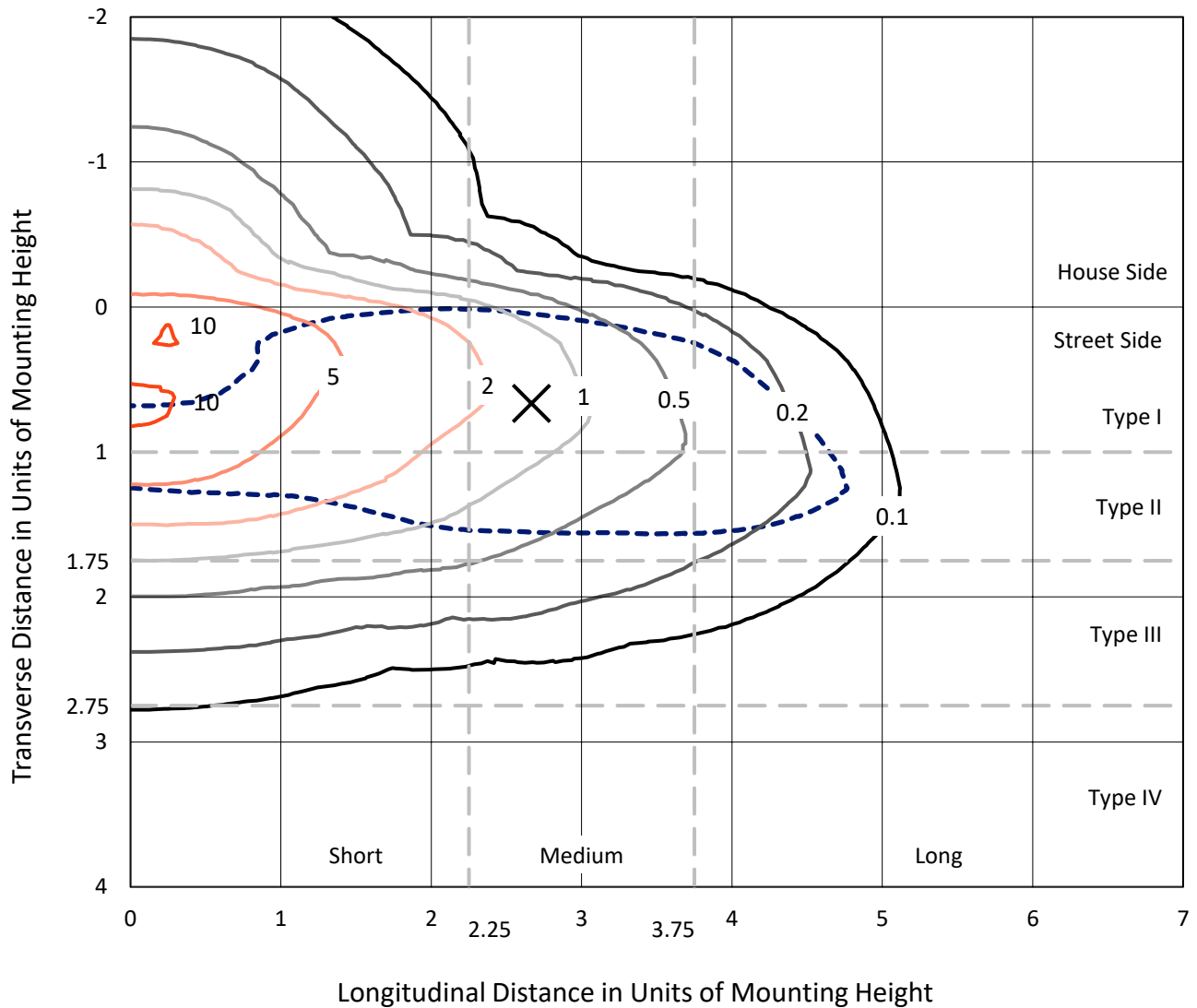
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

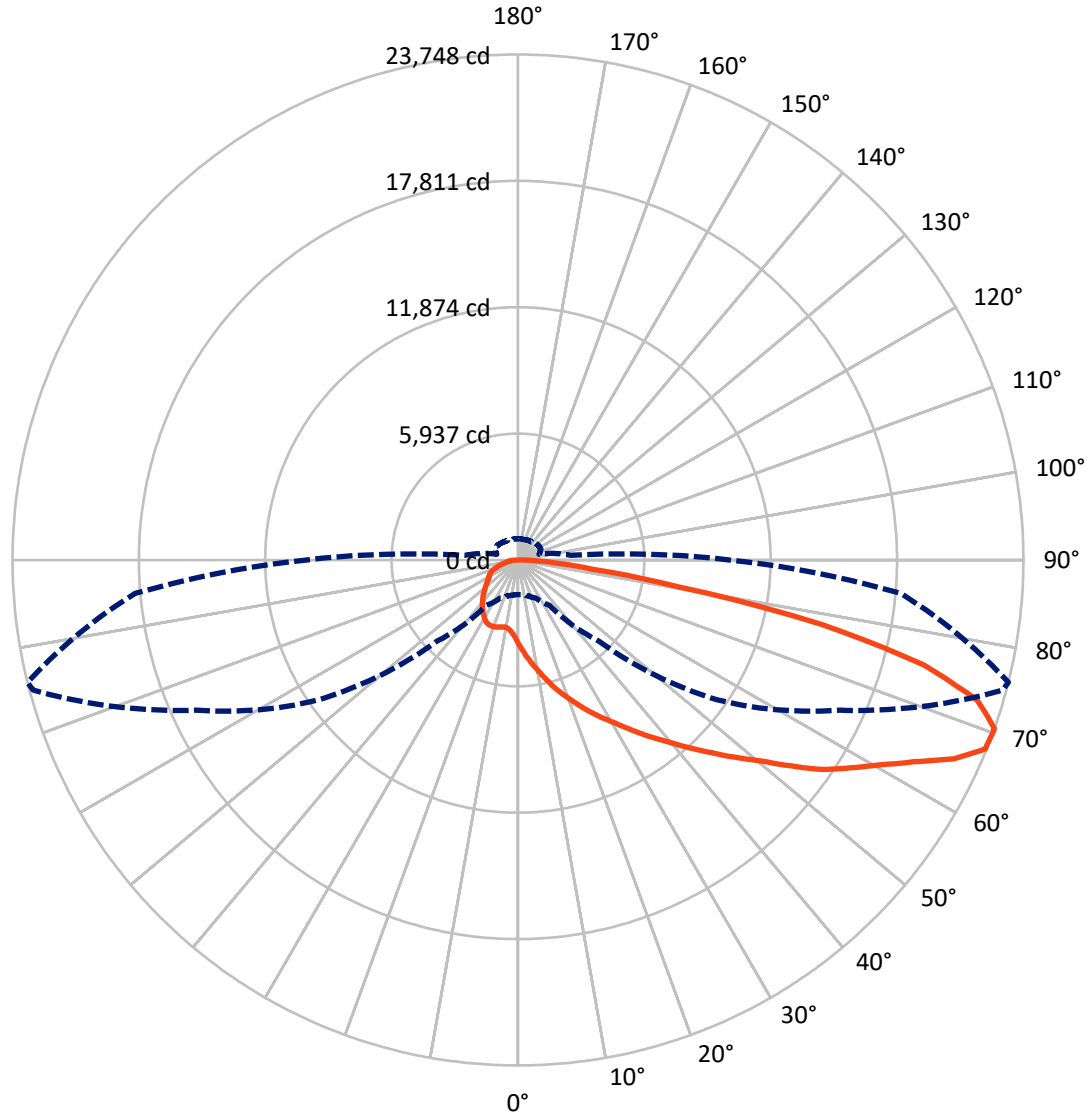
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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	5142.8	0.0	5142.8
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	26358.2	0.0	26358.2
	% Fixture	83.7	0.0	83.7
Total	Lumens	31501.0	0.0	31501.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.3	1.3
10°-20°	1391.1	4.4
20°-30°	2488.9	7.9
30°-40°	4026.2	12.8
40°-50°	5824.5	18.5
50°-60°	6666.4	21.2
60°-70°	6132.4	19.5
70°-80°	3792.2	12.0
80°-90°	770.1	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°	31501.0	100.0
0°-180°	31501.0	100.0

Coefficient of Utilization



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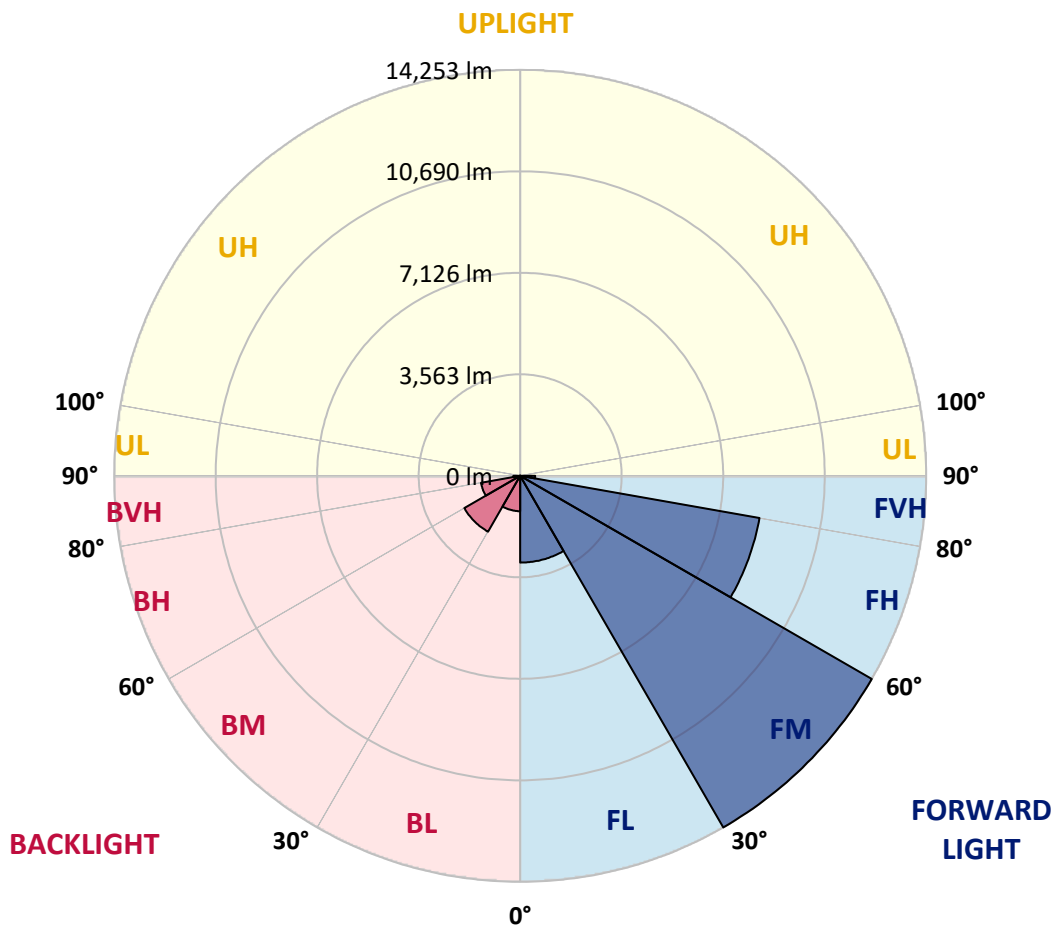
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3047.2	9.7			
FM (30°-60°)	14252.7	45.2			
FH (60°-80°)	8529.6	27.1			G4/12000
FVH (80°-90°)	528.6	1.7			G4/750
BL (0°-30°)	1242.2	3.9	B3/2500		
BM (30°-60°)	2264.4	7.2	B2/2500		
BH (60°-80°)	1394.9	4.4	B3/2500		G3/2500
BVH (80°-90°)	241.4	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3
2.5°	5020.5	4983.2	4979.1	4921.1	4867.2	4722.2	4618.7	4436.4	4254.2	4250.0	4067.7
5°	5803.4	5766.1	5745.4	5675.0	5583.8	5393.3	5206.9	4925.2	4614.5	4593.8	4250.0
7.5°	6333.6	6300.5	6259.0	6230.0	6143.0	5973.2	5745.4	5409.9	4983.2	4941.8	4461.3
10°	6689.8	6669.1	6660.8	6640.1	6586.3	6449.6	6230.0	5873.8	5351.9	5306.3	4685.0
12.5°	6843.1	6834.8	6872.1	6930.1	6950.8	6896.9	6685.7	6350.2	5757.8	5708.1	4954.2
15°	6665.0	6673.3	6768.5	6967.4	7178.6	7294.6	7170.3	6843.1	6217.6	6147.2	5269.0
17.5°	6582.1	6594.6	6660.8	6851.4	7149.6	7510.0	7568.0	7311.2	6660.8	6561.4	5600.4
20°	6727.1	6743.7	6793.4	6942.5	7149.6	7534.9	7837.2	7758.5	7095.8	6992.2	5919.4
22.5°	7095.8	7116.5	7112.3	7207.6	7348.5	7613.6	7986.4	8181.1	7551.4	7435.4	6250.7
25°	7882.8	7866.2	7725.4	7679.8	7717.1	7887.0	8185.2	8587.0	8027.8	7911.8	6598.7
27.5°	8951.5	8930.8	8674.0	8442.0	8234.9	8309.5	8466.9	8914.2	8512.4	8379.9	6930.1
30°	10094.8	10070.0	9771.7	9394.8	8935.0	8827.3	8806.5	9200.1	9001.2	8860.4	7282.2
32.5°	11209.1	11188.4	10869.4	10430.3	9796.6	9473.5	9274.6	9519.0	9556.3	9419.6	7667.4
35°	12224.0	12224.0	11950.6	11428.6	10712.0	10223.2	9896.0	9912.5	10194.2	10036.8	8106.5
37.5°	13127.0	13122.8	12824.6	12310.9	11623.3	11064.1	10658.2	10388.9	10803.1	10666.4	8566.3
40°	13843.6	13814.6	13595.1	13147.7	12455.9	11900.9	11490.8	10948.1	11482.5	11358.2	9055.1
42.5°	14365.5	14349.0	14199.8	13810.5	13151.8	12629.9	12348.2	11652.3	12252.9	12128.7	9626.7
45°	14568.5	14601.6	14601.6	14233.0	13711.0	13234.7	13110.4	12426.9	13085.6	12961.3	10239.8
47.5°	14241.3	14328.2	14506.4	14531.2	14071.4	13748.3	13789.7	13205.7	13943.0	13876.7	10910.8
50°	13218.1	13379.7	13769.0	14473.2	14216.4	14141.8	14369.7	14001.0	14862.6	14841.9	11726.9
52.5°	10579.5	10973.0	12186.7	13450.1	14117.0	14324.1	14945.4	14895.7	16047.3	16080.4	12791.4
55°	8114.8	8263.9	9668.1	11818.0	13508.1	14266.1	15330.7	15769.8	17331.4	17372.8	13769.0
57.5°	6561.4	6660.8	7427.2	9668.1	12120.4	13951.3	15633.1	16279.3	18317.3	18425.0	14638.9
60°	5198.6	5343.6	5857.2	7398.2	10177.7	13193.3	15844.3	16846.8	19377.7	19539.3	15678.6
62.5°	3864.8	3935.2	4419.8	5480.3	8056.8	11830.4	15732.5	17464.0	20678.4	20873.1	16929.6
65°	2750.5	2812.6	3156.4	3897.9	5956.6	9987.1	15082.1	17923.8	22310.5	22509.3	18188.9
67.5°	2058.7	2083.6	2278.3	2725.6	4013.9	7758.5	13764.9	17845.1	23503.5	23681.6	18694.2
70°	1627.9	1636.2	1731.5	1971.7	2609.7	5401.6	11457.6	16689.4	23590.4	23747.9	18056.3
72.5°	1350.4	1346.3	1400.1	1516.1	1818.5	3417.4	8487.6	14543.6	22472.0	22579.7	16275.1
75°	1114.3	1122.6	1159.8	1226.1	1387.7	2253.4	5501.0	11602.6	19825.1	19709.1	13657.2
77.5°	936.2	932.0	948.6	1006.6	1122.6	1619.6	3222.7	8384.0	14692.8	14634.8	8964.0
80°	753.9	762.2	787.0	836.7	944.4	1234.4	1905.5	5231.7	7882.8	7671.6	4283.1
82.5°	505.4	584.1	633.8	691.8	816.0	911.3	1209.6	2659.4	3525.1	3471.3	1942.7
85°	240.3	319.0	472.2	538.5	662.8	571.6	820.2	1267.5	1764.6	1743.9	700.1
87.5°	49.7	49.7	252.7	302.4	410.1	244.4	455.7	550.9	853.3	799.5	285.8
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°	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3
2.5°	3960.0	3848.2	3624.5	3446.4	3264.1	3160.6	3032.2	2970.0	2957.6	2924.5	2949.3
5°	4030.5	3810.9	3388.4	3110.9	2924.5	2833.3	2787.8	2771.2	2767.1	2758.8	2758.8
7.5°	4125.7	3790.2	3239.3	2957.6	2837.5	2808.5	2820.9	2845.8	2849.9	2858.2	2854.1
10°	4241.7	3794.4	3156.4	2920.3	2862.3	2866.5	2907.9	2941.0	2957.6	2970.0	2965.9
12.5°	4403.3	3844.1	3144.0	2945.2	2920.3	2936.9	2978.3	3011.5	3028.0	3032.2	3032.2
15°	4614.5	3947.6	3173.0	2999.0	2978.3	2990.7	3015.6	3028.0	3032.2	3028.0	3028.0
17.5°	4846.5	4071.9	3214.4	3032.2	2999.0	2986.6	2978.3	2965.9	2941.0	2924.5	2924.5
20°	5070.2	4183.7	3235.1	3028.0	2970.0	2920.3	2870.6	2808.5	2767.1	2733.9	2733.9
22.5°	5293.9	4287.3	3235.1	2982.5	2891.3	2796.1	2692.5	2593.1	2531.0	2489.5	2489.5
25°	5530.0	4386.7	3210.3	2903.8	2767.1	2630.4	2489.5	2365.3	2303.1	2261.7	2253.4
27.5°	5728.8	4444.7	3144.0	2791.9	2613.8	2439.8	2278.3	2149.9	2104.3	2067.0	2067.0
30°	5940.1	4482.0	3019.7	2646.9	2439.8	2241.0	2075.3	1971.7	1922.0	1868.2	1864.0
32.5°	6176.2	4506.8	2878.9	2493.7	2261.7	2050.4	1909.6	1826.8	1719.1	1661.1	1652.8
35°	6449.6	4540.0	2729.8	2319.7	2083.6	1893.0	1810.2	1673.5	1569.9	1520.2	1516.1
37.5°	6739.5	4564.8	2568.2	2166.4	1922.0	1789.5	1706.6	1545.1	1454.0	1379.4	1371.1
40°	7046.1	4564.8	2402.5	2017.3	1793.6	1743.9	1586.5	1441.5	1288.3	1251.0	1242.7
42.5°	7385.7	4556.5	2236.8	1872.3	1673.5	1640.4	1516.1	1362.8	1284.1	1251.0	1242.7
45°	7746.1	4527.5	2079.4	1706.6	1549.2	1482.9	1387.7	1346.3	1313.1	1313.1	1313.1
47.5°	8156.2	4502.7	1901.3	1557.5	1458.1	1383.5	1313.1	1288.3	1284.1	1296.5	1309.0
50°	8682.3	4494.4	1752.2	1449.8	1387.7	1300.7	1292.4	1271.7	1275.8	1275.8	1275.8
52.5°	9320.2	4419.8	1611.4	1371.1	1317.3	1213.7	1238.6	1259.3	1267.5	1263.4	1259.3
55°	9788.3	4287.3	1491.2	1317.3	1267.5	1180.6	1213.7	1246.8	1255.1	1242.7	1242.7
57.5°	10210.8	4100.9	1396.0	1275.8	1234.4	1159.8	1197.1	1230.3	1222.0	1217.8	1213.7
60°	10695.4	3922.8	1321.4	1255.1	1201.3	1151.6	1184.7	1205.4	1193.0	1184.7	1180.6
62.5°	11221.5	3748.8	1267.5	1255.1	1176.4	1147.4	1172.3	1180.6	1155.7	1147.4	1147.4
65°	11465.9	3475.4	1209.6	1255.1	1164.0	1139.1	1147.4	1139.1	1114.3	1114.3	1110.1
67.5°	11064.1	3023.9	1135.0	1238.6	1180.6	1126.7	1110.1	1097.7	1068.7	1068.7	1060.4
70°	9954.0	2485.4	1027.3	1184.7	1184.7	1122.6	1060.4	1031.4	998.3	1010.7	994.2
72.5°	8504.2	1971.7	894.7	1093.6	1159.8	1118.4	1006.6	961.0	932.0	944.4	919.6
75°	6888.7	1528.5	737.3	948.6	1097.7	1097.7	952.7	890.6	857.5	857.5	828.5
77.5°	4390.8	1130.9	600.6	787.0	985.9	1068.7	907.2	811.9	762.2	749.8	729.0
80°	2174.7	795.3	492.9	625.5	840.9	1002.4	874.0	720.8	650.3	625.5	588.2
82.5°	1155.7	550.9	393.5	488.8	671.1	903.0	832.6	621.3	534.4	497.1	455.7
85°	517.8	339.7	314.8	372.8	509.5	741.5	749.8	509.5	410.1	488.8	360.4
87.5°	190.5	153.3	153.3	190.5	294.1	310.7	530.2	327.2	261.0	178.1	140.8
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)