

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: P348931

Luminaire Tested: **ARCH-N-PA1-60-730-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1908-474-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-60-730-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1160mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6948 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

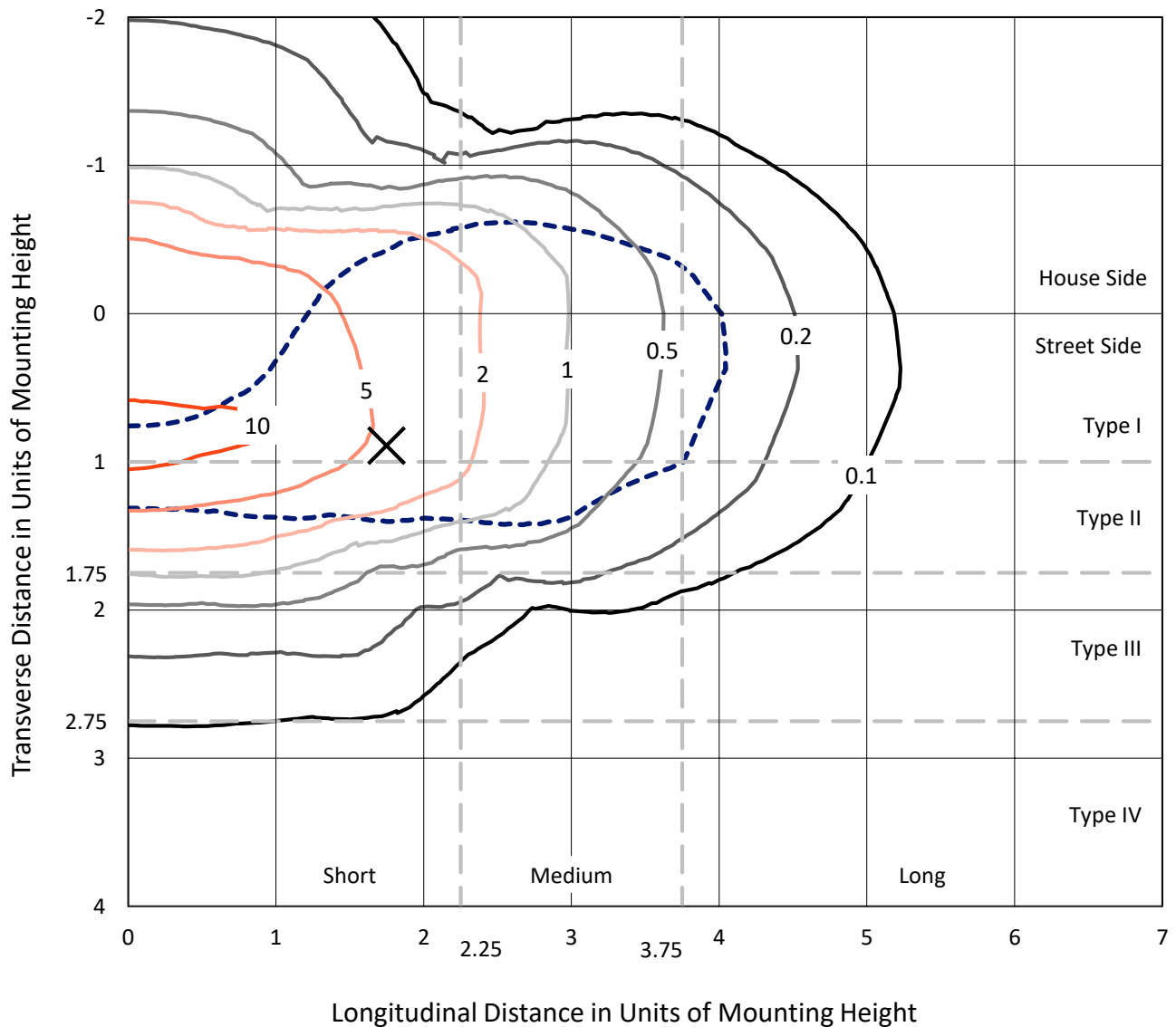
Input Watts (W): 62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

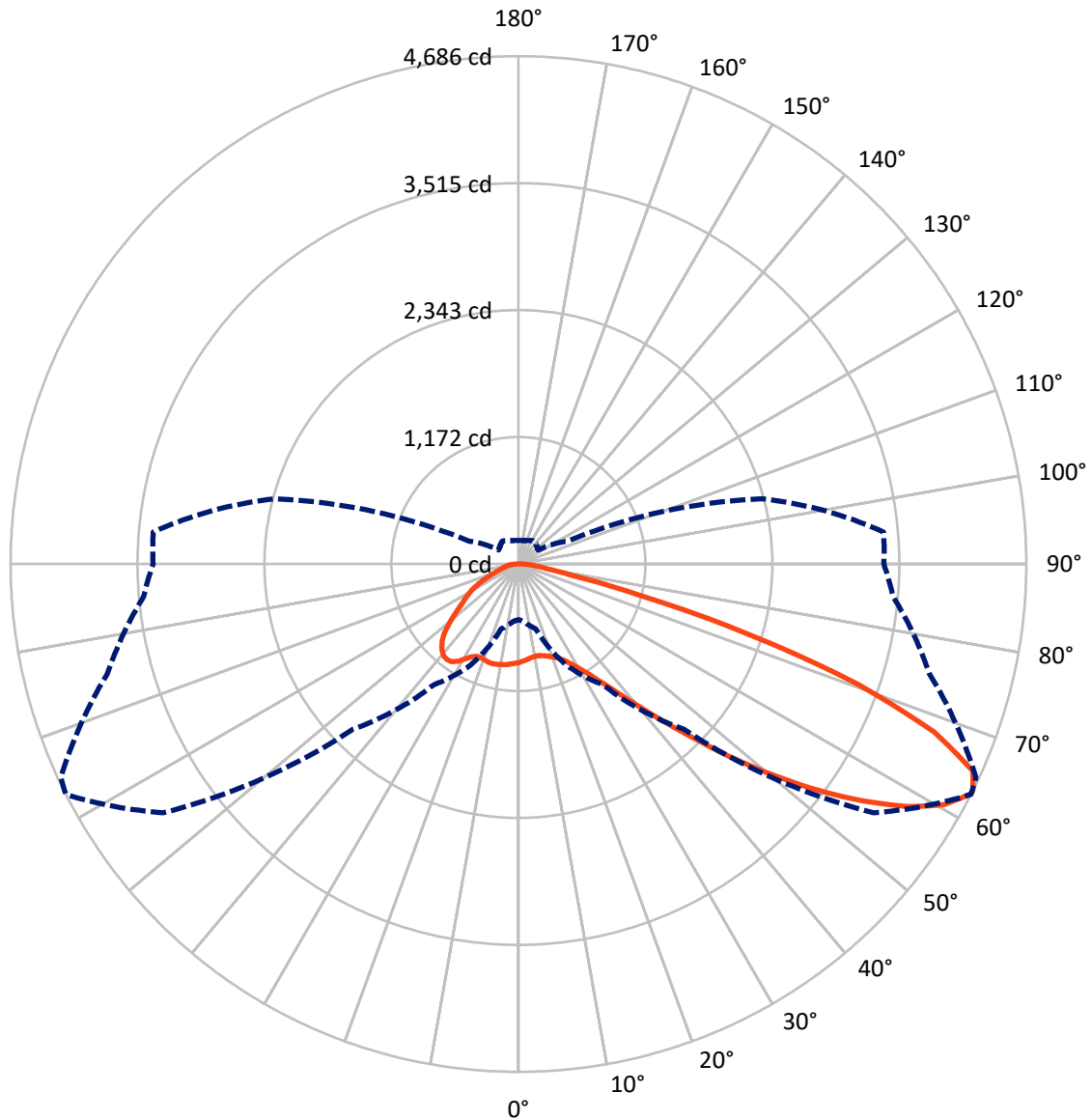
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1983.6	0.0	1983.6
	% Fixture	28.5	0.0	28.5
Street Side	Lumens	4964.4	0.0	4964.4
	% Fixture	71.5	0.0	71.5
Total	Lumens	6948.0	0.0	6948.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	1.2
10°-20°	254.7	3.7
20°-30°	447.3	6.4
30°-40°	753.9	10.9
40°-50°	1320.7	19.0
50°-60°	1706.9	24.6
60°-70°	1477.5	21.3
70°-80°	767.0	11.0
80°-90°	133.7	1.9
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°	6948.0	100.0
0°-180°	6948.0	100.0



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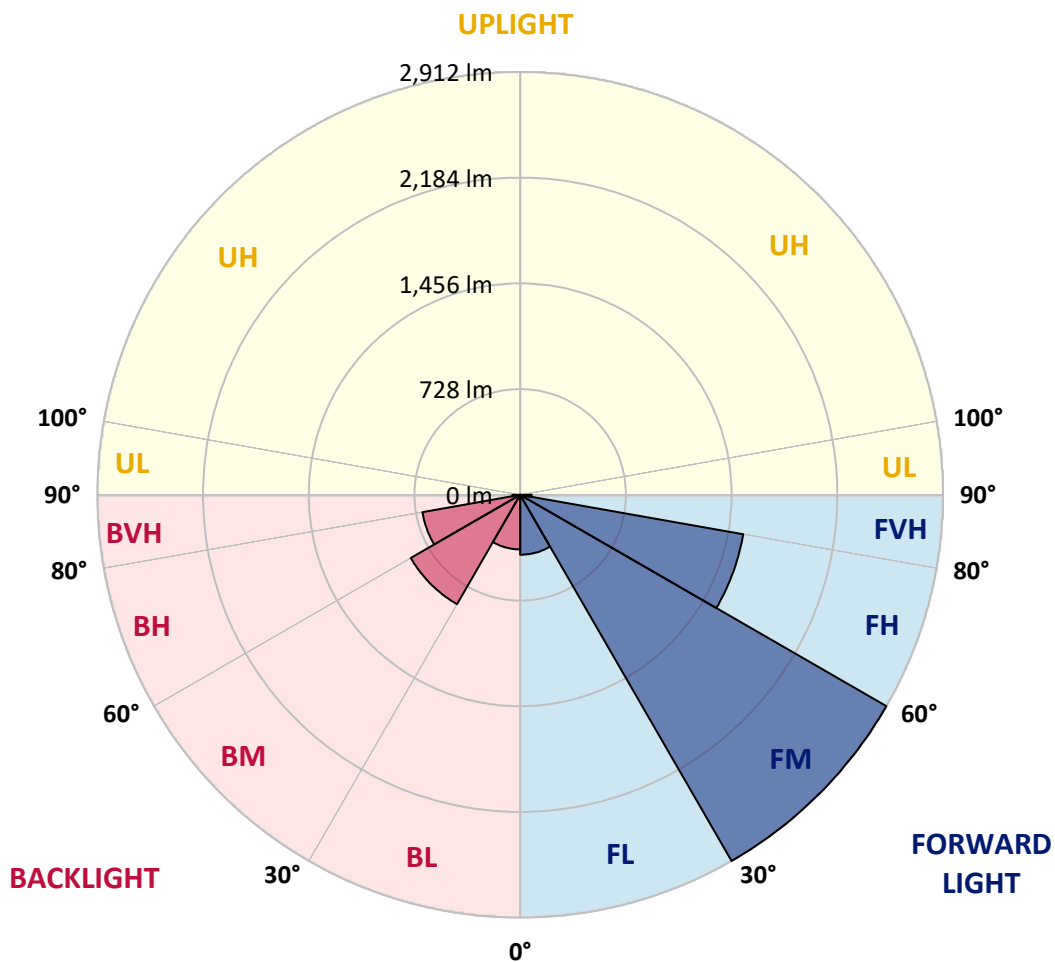
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	412.5	5.9			
FM (30°-60°)	2912.0	41.9			
FH (60°-80°)	1560.3	22.5			G1/1800
FVH (80°-90°)	79.6	1.1			G1/100
BL (0°-30°)	375.8	5.4	B1/500		
BM (30°-60°)	869.5	12.5	B1/1000		
BH (60°-80°)	684.3	9.8	B2/1000		G2/1000
BVH (80°-90°)	54.0	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	909.7	909.7	909.7	909.7	909.7	909.7	909.7	909.7	909.7	909.7	909.7
2.5°	888.2	885.6	890.2	892.1	891.5	895.4	895.4	896.0	896.0	899.3	902.5
5°	862.2	860.9	865.5	868.7	871.3	877.2	881.1	883.0	885.0	889.5	897.3
7.5°	837.5	835.6	842.1	844.7	848.6	857.0	866.1	871.3	873.9	883.7	894.7
10°	817.4	816.7	821.9	824.5	829.1	841.4	854.4	865.5	867.4	880.4	890.8
12.5°	807.6	806.3	812.2	815.4	823.2	838.2	853.1	866.8	870.0	885.0	894.1
15°	815.4	816.7	821.9	822.6	831.7	847.3	864.2	877.8	881.1	896.0	902.5
17.5°	852.5	851.8	855.1	853.8	857.0	864.8	883.0	894.1	898.0	909.0	914.2
20°	919.5	917.5	920.1	911.6	897.3	893.4	904.5	916.8	918.1	924.7	921.4
22.5°	1021.5	1023.5	1017.6	996.2	961.7	945.5	938.3	942.2	946.8	946.1	936.4
25°	1154.8	1161.3	1150.3	1112.6	1054.7	1017.0	991.0	985.1	988.4	979.3	964.3
27.5°	1329.8	1335.0	1310.9	1252.4	1174.3	1118.4	1066.4	1046.2	1046.2	1026.7	999.4
30°	1522.2	1525.5	1487.1	1413.0	1322.6	1239.4	1162.6	1123.6	1120.4	1082.0	1039.1
32.5°	1756.3	1747.2	1701.7	1610.0	1496.2	1381.8	1282.9	1223.8	1217.3	1159.4	1104.8
35°	2058.7	2058.7	1964.4	1859.7	1721.2	1575.5	1445.5	1353.8	1347.3	1281.6	1210.8
37.5°	2387.1	2385.8	2300.6	2156.2	1990.4	1812.2	1638.6	1524.2	1509.2	1439.0	1359.7
40°	2714.1	2703.1	2634.2	2497.0	2320.1	2116.6	1877.3	1744.0	1736.8	1636.7	1537.2
42.5°	2953.4	2943.0	2910.5	2818.8	2702.4	2555.5	2187.4	2007.3	1996.9	1870.8	1749.2
45°	3085.4	3070.5	3065.9	3067.2	3080.2	3079.6	2570.4	2318.8	2282.4	2136.1	1974.2
47.5°	3055.5	3020.4	3067.2	3187.5	3389.7	3522.4	3016.5	2688.8	2621.1	2411.8	2214.1
50°	2814.3	2797.4	2897.5	3142.6	3558.2	3869.6	3507.4	3073.1	2977.5	2672.5	2441.0
52.5°	2391.0	2423.5	2547.0	2895.6	3527.6	4079.7	3953.5	3472.3	3339.7	2920.9	2638.1
55°	1903.3	1944.2	2118.5	2487.8	3244.7	4082.3	4275.4	3859.2	3740.9	3177.8	2839.6
57.5°	1385.0	1442.9	1660.7	1999.5	2748.6	3803.3	4434.0	4221.4	4086.2	3430.7	3036.7
60°	870.0	911.0	1148.3	1541.1	2101.0	3187.5	4394.4	4511.4	4399.6	3669.3	3261.6
62.5°	560.5	580.0	682.8	1100.2	1465.0	2337.6	4101.1	4677.9	4629.8	3887.2	3431.4
63°	513.7	530.6	618.4	1017.0	1358.4	2153.6	4002.3	4686.3	4657.7	3928.1	3471.0
65°	367.4	385.6	431.1	699.0	1002.7	1444.9	3429.4	4607.7	4639.5	3996.4	3525.0
67.5°	290.0	295.9	316.7	424.6	711.4	820.6	2307.7	4137.5	4277.3	3923.6	3445.0
70°	259.4	264.0	287.4	325.8	538.4	531.9	1203.6	3326.7	3616.0	3675.2	3243.4
72.5°	226.3	229.5	258.1	306.9	411.0	406.4	523.4	2236.9	2588.6	3220.0	2964.5
75°	187.3	190.5	214.6	272.5	347.9	321.2	327.7	1169.1	1483.9	2524.3	2599.7
77.5°	154.1	156.1	176.2	219.1	306.3	247.7	253.6	491.6	721.1	1720.6	2052.8
80°	111.8	112.5	131.4	166.5	234.1	223.7	188.6	267.9	327.1	942.9	1291.4
82.5°	78.0	78.7	98.2	116.4	161.3	223.0	137.2	179.5	196.4	434.4	574.8
85°	54.6	53.3	67.0	76.7	102.1	135.3	104.7	115.1	121.6	187.9	154.8
87.5°	24.1	23.4	37.7	41.0	51.4	62.4	83.2	60.5	64.4	91.0	48.8
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°	909.7	909.7	909.7	909.7	909.7	909.7	909.7	909.7	909.7	909.7	909.7
2.5°	903.2	905.8	909.7	915.5	920.1	922.1	926.0	926.6	932.5	927.3	927.9
5°	901.9	905.1	913.6	924.0	931.2	936.4	946.1	949.4	955.2	952.6	952.0
7.5°	899.9	905.8	918.1	933.1	944.2	952.6	961.7	967.6	973.4	972.1	970.8
10°	897.3	904.5	922.1	937.0	952.6	961.7	968.2	968.9	970.8	969.5	966.3
12.5°	899.3	907.1	927.3	942.2	958.5	965.0	963.0	953.3	944.8	937.7	936.4
15°	905.8	914.9	933.8	947.4	960.4	956.5	944.8	923.4	907.7	898.6	899.3
17.5°	912.3	920.1	934.4	945.5	952.0	940.3	922.1	903.8	896.7	889.5	888.2
20°	918.1	919.5	928.6	938.3	937.7	928.6	911.6	889.5	875.2	863.5	864.2
22.5°	927.3	922.1	922.7	928.6	935.7	927.3	887.6	849.2	827.8	814.1	813.5
25°	948.1	937.0	926.6	929.9	957.2	903.2	836.2	786.1	767.3	754.9	756.2
27.5°	976.7	961.7	940.9	958.5	973.4	855.7	762.7	711.4	698.4	685.4	688.6
30°	1007.9	986.4	961.1	1020.2	955.2	780.3	671.7	624.9	613.2	600.8	603.4
32.5°	1063.8	1031.9	998.8	1094.4	912.9	688.6	576.1	533.9	526.1	518.2	518.9
35°	1156.8	1119.1	1083.3	1150.9	858.3	593.0	490.3	460.4	453.9	444.8	444.8
37.5°	1294.0	1234.8	1216.0	1180.8	783.5	503.9	427.2	407.1	393.4	381.0	381.0
40°	1453.3	1383.1	1368.1	1190.0	686.0	429.8	383.0	365.4	347.2	329.0	330.3
42.5°	1647.1	1552.1	1517.7	1177.6	567.7	382.3	351.8	331.6	314.1	298.5	295.9
45°	1865.6	1745.3	1658.1	1141.8	460.4	353.1	331.6	307.6	285.5	271.8	269.2
47.5°	2088.6	1954.6	1782.3	1070.3	384.9	332.3	318.0	284.2	268.6	259.4	258.1
50°	2301.9	2162.1	1885.1	957.8	341.4	317.3	297.8	273.1	260.1	252.3	251.6
52.5°	2491.1	2359.1	1971.6	841.4	312.1	305.0	288.7	267.9	254.2	247.1	245.8
55°	2671.2	2558.7	2057.4	737.4	286.8	284.2	284.2	262.7	247.7	241.2	239.9
57.5°	2868.9	2785.7	2143.9	661.3	264.0	269.2	278.3	256.8	240.6	234.7	234.1
60°	3097.1	3048.4	2234.9	594.3	243.8	252.9	269.9	249.0	232.1	227.6	226.3
62.5°	3330.6	3331.9	2313.6	513.7	226.9	240.6	260.1	241.9	224.3	221.1	220.4
63°	3371.5	3383.2	2324.6	496.1	223.0	238.0	257.5	239.3	222.4	219.1	218.5
65°	3472.3	3523.7	2333.7	422.0	208.7	228.2	247.7	230.8	213.9	213.3	212.0
67.5°	3448.3	3532.1	2277.2	331.0	192.5	214.6	234.1	218.5	203.5	203.5	200.9
70°	3268.8	3323.4	2103.6	255.5	180.1	200.3	217.8	205.5	189.9	191.2	186.0
72.5°	2993.7	2933.9	1730.3	199.6	165.2	184.0	199.0	188.6	174.9	173.6	167.8
75°	2590.6	2393.6	1239.4	161.3	147.0	162.6	178.2	170.4	158.0	150.9	149.6
77.5°	1974.2	1699.1	742.6	136.6	131.4	144.4	154.1	148.3	138.5	130.0	130.7
80°	1175.6	979.9	334.9	115.7	113.8	123.5	131.4	126.8	120.3	109.9	107.3
82.5°	476.0	379.1	150.2	93.6	96.2	103.4	110.5	106.6	101.4	98.8	83.9
85°	123.5	119.0	87.8	70.2	74.1	77.4	87.1	87.1	82.6	67.6	62.4
87.5°	35.1	46.8	48.8	44.2	50.1	50.7	60.5	60.5	61.8	41.6	37.7
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)