

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: P397912

Luminaire Tested: **ARCH-S-PA1-60-730-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-60-730-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8175 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

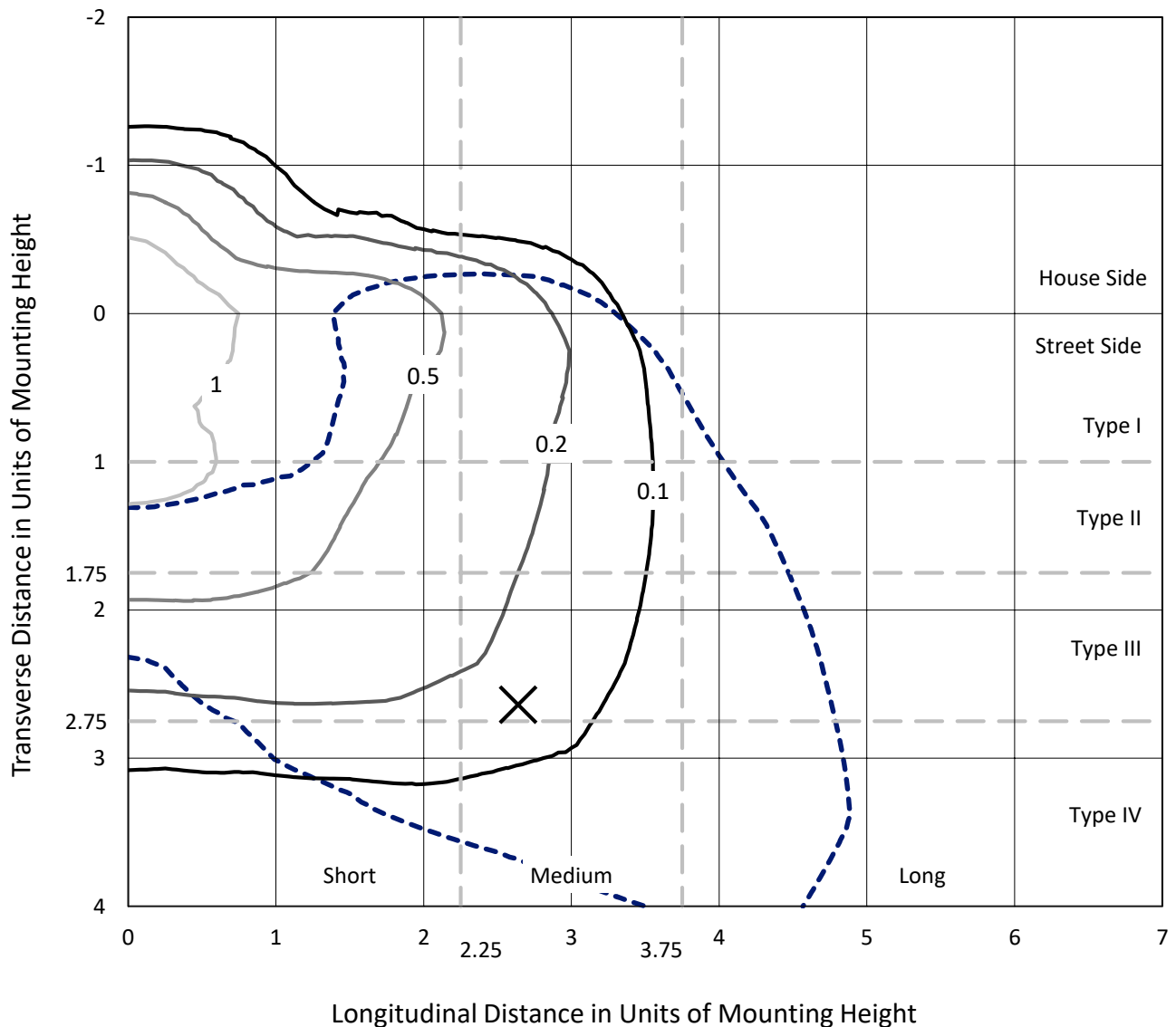
Input Watts (W): 64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

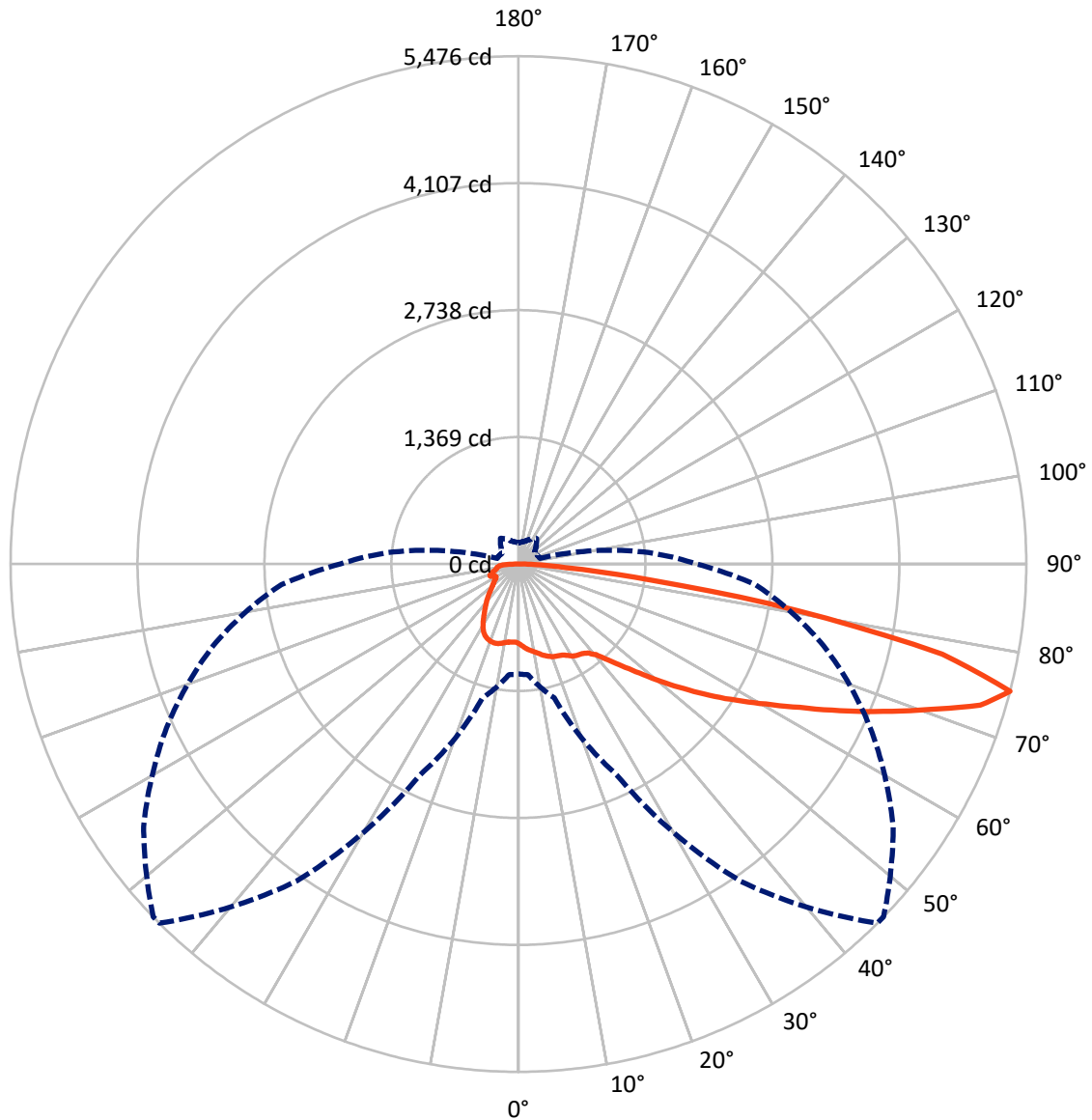


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1806.6	0.0	1806.6
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	6368.4	0.0	6368.4
	% Fixture	77.9	0.0	77.9
Total	Lumens	8175.0	0.0	8175.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	1.0
10°-20°	270.2	3.3
20°-30°	460.7	5.6
30°-40°	645.5	7.9
40°-50°	948.3	11.6
50°-60°	1509.2	18.5
60°-70°	2146.8	26.3
70°-80°	1797.5	22.0
80°-90°	312.0	3.8
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°	8175.0	100.0
0°-180°	8175.0	100.0

Coefficient of Utilization



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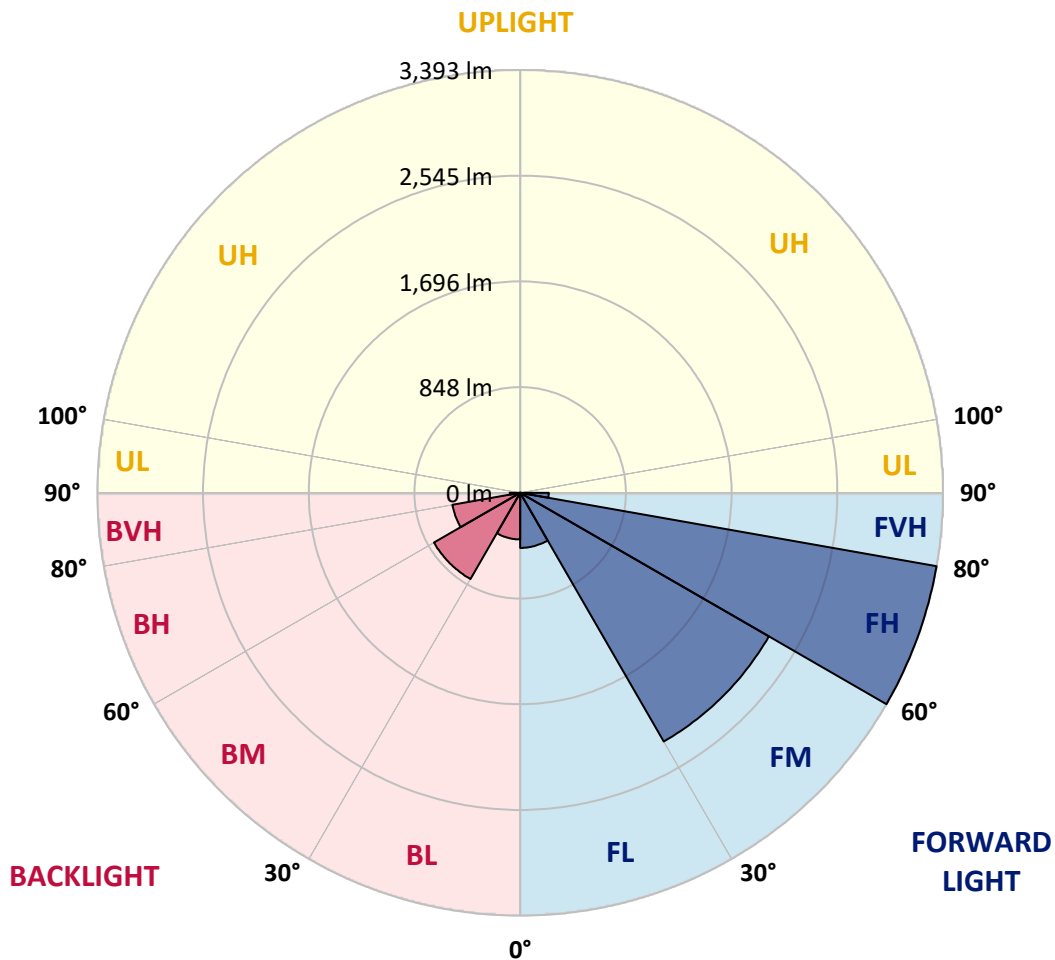
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	441.9	5.4			
FM (30°-60°)	2304.3	28.2			
FH (60°-80°)	3392.8	41.5			G2/5000
FVH (80°-90°)	229.3	2.8			G3/500
BL (0°-30°)	373.9	4.6	B1/500		
BM (30°-60°)	798.6	9.8	B1/1000		
BH (60°-80°)	551.5	6.7	B2/1000		G2/1000
BVH (80°-90°)	82.6	1.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	858.6	858.6	858.6	858.6	858.6	858.6	858.6	858.6	858.6	858.6	858.6
2.5°	907.7	903.3	901.2	901.2	892.4	887.0	885.9	878.2	871.7	865.1	859.6
5°	960.1	956.9	950.3	944.8	932.8	917.5	915.4	899.0	882.6	867.3	854.2
7.5°	1008.2	1001.6	994.0	983.1	963.4	942.7	939.4	916.4	893.5	870.6	853.1
10°	1048.6	1042.1	1031.1	1015.8	990.7	965.6	962.3	938.3	914.3	887.0	861.8
12.5°	1086.8	1081.4	1065.0	1044.2	1014.8	991.8	988.5	967.8	942.7	912.1	879.3
15°	1119.6	1114.2	1096.7	1072.6	1038.8	1021.3	1016.9	997.3	972.2	939.4	905.5
17.5°	1136.0	1136.0	1117.4	1091.2	1059.5	1046.4	1043.2	1019.1	996.2	964.5	930.6
20°	1141.5	1143.6	1130.5	1098.9	1071.6	1066.1	1062.8	1043.2	1016.9	986.4	954.7
22.5°	1144.7	1149.1	1138.2	1102.1	1079.2	1075.9	1073.7	1060.6	1039.9	1010.4	978.7
25°	1155.7	1155.7	1148.0	1107.6	1089.0	1087.9	1087.9	1080.3	1066.1	1041.0	1009.3
27.5°	1172.0	1171.0	1161.1	1119.6	1110.9	1114.2	1113.1	1112.0	1102.1	1077.0	1043.2
30°	1199.4	1199.4	1188.4	1143.6	1138.2	1152.4	1153.5	1155.7	1140.4	1101.0	1073.7
32.5°	1240.9	1236.5	1225.6	1167.7	1158.9	1172.0	1174.2	1173.1	1160.0	1122.9	1109.8
35°	1368.7	1358.8	1319.5	1221.2	1177.5	1185.2	1186.2	1191.7	1193.9	1164.4	1157.8
37.5°	1592.6	1579.5	1519.4	1347.9	1236.5	1217.9	1216.8	1231.0	1243.0	1216.8	1216.8
40°	1836.2	1825.2	1790.3	1566.4	1345.7	1284.6	1280.2	1293.3	1308.6	1290.0	1295.5
42.5°	2045.9	2054.6	2057.9	1797.9	1509.6	1409.1	1397.1	1378.5	1402.5	1386.1	1408.0
45°	2203.2	2198.8	2258.9	2035.0	1721.5	1565.3	1548.9	1498.6	1529.2	1528.1	1576.2
47.5°	2370.3	2362.7	2387.8	2257.8	1962.9	1756.4	1731.3	1657.0	1702.9	1734.6	1814.3
50°	2528.7	2530.9	2539.6	2433.7	2225.0	1989.1	1957.4	1858.0	1923.6	1990.2	2102.7
52.5°	2735.1	2719.8	2708.9	2639.0	2518.9	2231.6	2210.8	2097.2	2189.0	2267.6	2417.3
55°	2915.4	2905.5	2899.0	2895.7	2764.6	2499.2	2477.4	2359.4	2491.6	2547.3	2767.9
57.5°	3107.6	3102.2	3137.1	3192.8	3140.4	2771.2	2748.2	2634.6	2782.1	2821.4	3148.0
60°	3248.5	3251.8	3347.9	3489.9	3453.9	3066.1	3038.8	2938.3	3065.0	3100.0	3528.2
62.5°	3249.6	3282.4	3505.2	3759.7	3801.2	3405.8	3374.1	3264.9	3355.6	3355.6	3869.0
65°	2939.4	2976.5	3476.8	3826.4	4153.0	3810.0	3779.4	3607.9	3641.8	3595.9	4189.0
67.5°	2630.3	2674.0	3144.8	3831.8	4399.8	4242.5	4206.5	3950.9	3893.0	3777.2	4412.9
70°	2424.9	2455.5	2848.7	3760.8	4548.4	4694.7	4667.4	4276.4	4090.7	3929.0	4366.0
72.5°	2041.5	2030.6	2406.4	3423.3	4631.4	5208.1	5185.2	4630.3	4262.2	3856.9	3723.7
75°	1185.2	1198.3	1493.2	2507.9	4174.8	5475.7	5473.6	4932.9	4186.8	3406.9	2565.8
77.5°	341.9	351.7	490.4	1102.1	2640.1	4670.7	4820.4	4511.2	3539.1	2428.2	1330.4
80°	149.6	157.3	213.0	367.0	1137.1	3050.8	3181.9	3050.8	2134.4	1114.2	522.1
82.5°	88.5	93.9	138.7	227.2	545.1	1451.7	1628.6	1422.2	920.8	473.0	216.3
85°	50.2	52.4	79.7	144.2	343.0	507.9	570.2	534.1	448.9	268.7	113.6
87.5°	22.9	24.0	39.3	67.7	192.2	171.5	178.0	235.9	260.0	163.8	56.8
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°	858.6	858.6	858.6	858.6	858.6	858.6	858.6	858.6	858.6	858.6	858.6
2.5°	857.5	854.2	847.6	845.4	842.2	843.3	844.4	844.4	845.4	842.2	842.2
5°	848.7	843.3	836.7	836.7	836.7	845.4	853.1	857.5	859.6	859.6	857.5
7.5°	845.4	838.9	831.2	833.4	835.6	846.5	860.7	874.9	879.3	879.3	877.1
10°	852.0	845.4	840.0	843.3	848.7	857.5	868.4	881.5	892.4	893.5	892.4
12.5°	867.3	859.6	854.2	860.7	867.3	872.8	878.2	883.7	897.9	900.1	900.1
15°	892.4	884.8	878.2	883.7	885.9	885.9	885.9	885.9	900.1	902.2	902.2
17.5°	917.5	911.0	904.4	905.5	899.0	890.2	887.0	885.9	893.5	900.1	901.2
20°	941.6	936.1	929.6	918.6	902.2	885.9	880.4	880.4	884.8	894.6	894.6
22.5°	967.8	961.2	950.3	925.2	897.9	874.9	869.5	872.8	878.2	891.3	890.2
25°	997.3	988.5	970.0	923.0	883.7	856.4	857.5	867.3	877.1	891.3	891.3
27.5°	1030.0	1018.0	980.9	905.5	852.0	825.8	835.6	858.6	872.8	888.0	890.2
30°	1066.1	1055.2	989.6	874.9	800.7	776.6	800.7	837.8	859.6	873.8	877.1
32.5°	1109.8	1101.0	997.3	835.6	734.0	713.3	748.2	794.1	829.1	845.4	848.7
35°	1164.4	1155.7	1007.1	790.8	671.8	649.9	681.6	728.6	774.4	795.2	801.8
37.5°	1235.4	1222.3	1015.8	742.8	619.3	594.2	609.5	652.1	693.6	722.0	729.7
40°	1326.1	1305.3	1023.5	688.2	573.5	545.1	550.5	571.3	595.3	620.4	630.3
42.5°	1453.9	1412.4	1024.6	630.3	526.5	500.3	498.1	504.6	504.6	504.6	507.9
45°	1631.9	1553.3	1026.8	575.6	478.4	451.1	444.6	442.4	426.0	394.3	392.1
47.5°	1856.9	1737.9	1036.6	529.8	428.2	404.2	395.4	386.7	356.1	323.3	316.8
50°	2145.3	1952.0	1056.3	486.1	385.6	369.2	358.3	337.5	303.7	278.5	272.0
52.5°	2477.4	2206.5	1074.8	440.2	353.9	343.0	329.9	304.8	268.7	253.4	251.2
55°	2858.6	2490.5	1112.0	399.8	326.6	319.0	306.9	282.9	255.6	244.7	243.6
57.5°	3248.5	2808.3	1164.4	363.7	300.4	296.0	296.0	275.3	257.8	253.4	253.4
60°	3624.3	3081.4	1124.0	329.9	276.4	278.5	299.3	293.8	280.7	286.2	289.5
62.5°	3915.9	3242.0	912.1	302.6	258.9	278.5	332.1	332.1	316.8	314.6	314.6
65°	4040.4	3239.8	641.2	281.8	252.3	305.8	370.3	352.8	312.4	297.1	293.8
67.5°	4008.8	3097.8	442.4	267.6	250.1	334.2	387.8	338.6	292.7	279.6	269.8
70°	3730.2	2797.4	340.8	254.5	246.9	322.2	382.3	322.2	277.4	265.4	256.7
72.5°	3009.3	2243.6	282.9	241.4	233.8	298.2	363.7	306.9	265.4	252.3	243.6
75°	1919.2	1411.3	239.2	223.9	208.6	267.6	338.6	291.6	252.3	234.8	228.3
77.5°	923.0	608.4	208.6	203.2	187.9	248.0	313.5	272.0	234.8	220.6	216.3
80°	373.6	278.5	181.3	182.4	172.6	235.9	296.0	253.4	217.4	202.1	194.4
82.5°	194.4	161.7	152.9	157.3	157.3	225.0	282.9	238.1	202.1	195.5	170.4
85°	104.9	100.5	118.0	126.7	136.5	203.2	263.2	221.7	184.6	158.4	152.9
87.5°	51.3	65.5	66.6	76.5	95.0	162.8	221.7	185.7	154.0	127.8	125.6
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)