

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: P397982

Luminaire Tested: **ARCH-S-PA1-70-730-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-70-730-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9172 lumens
Efficiency: N/A
Efficacy: 123.9 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): 74
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

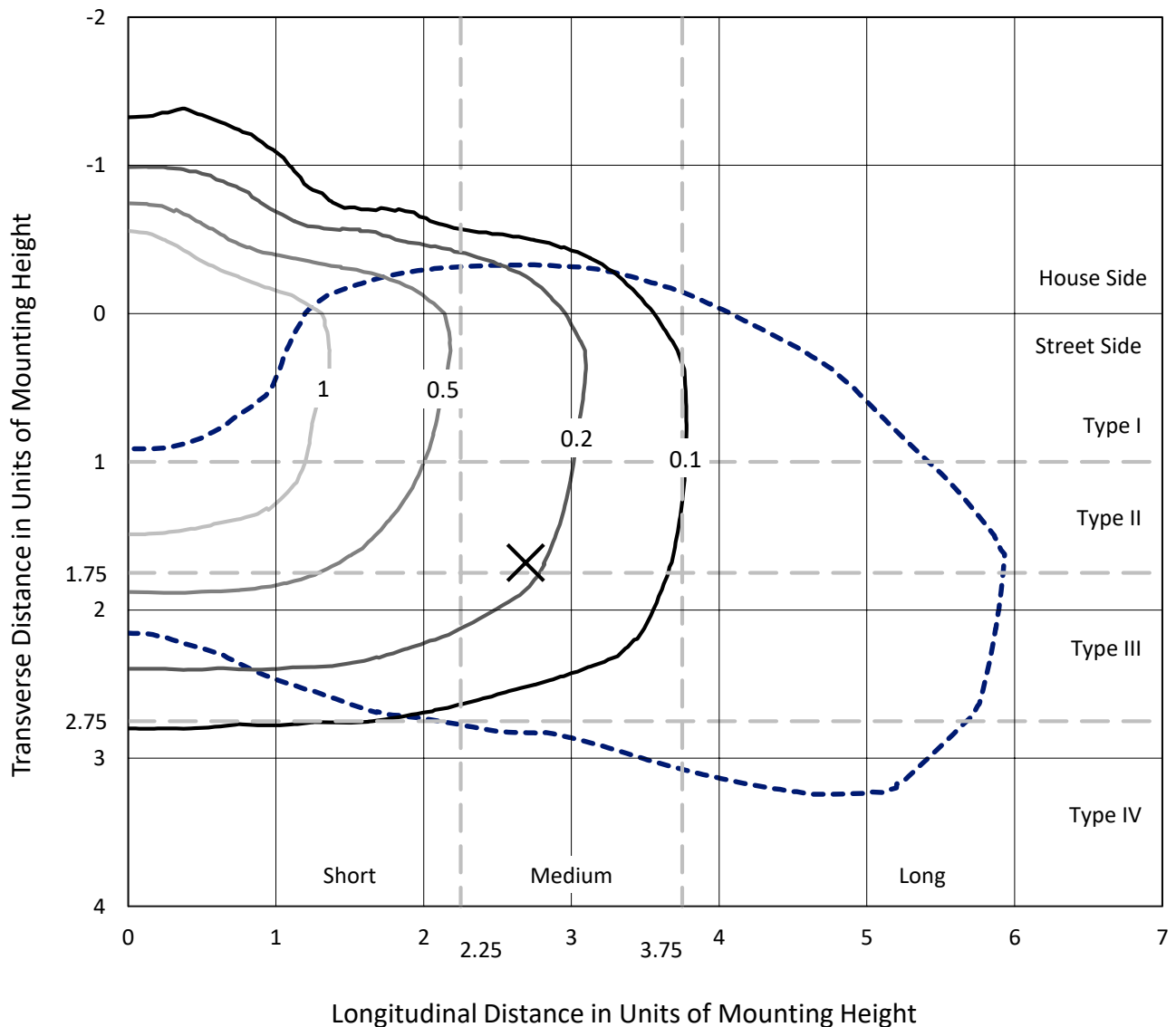


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

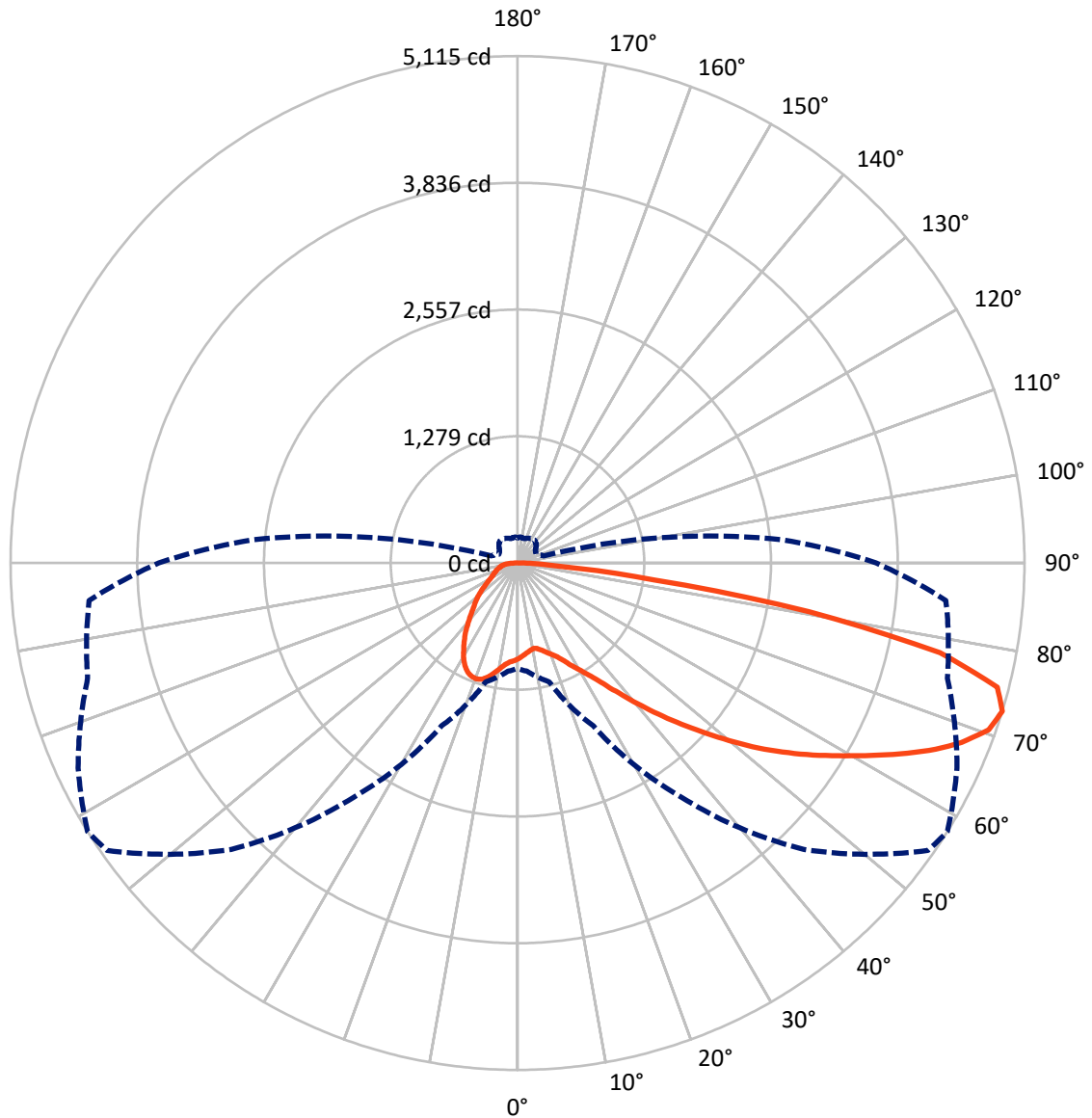


Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2080.1	0.0	2080.1
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	7091.9	0.0	7091.9
	% Fixture	77.3	0.0	77.3
Total	Lumens	9172.0	0.0	9172.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	1.0
10°-20°	296.0	3.2
20°-30°	530.2	5.8
30°-40°	797.5	8.7
40°-50°	1291.5	14.1
50°-60°	1944.1	21.2
60°-70°	2288.0	24.9
70°-80°	1622.4	17.7
80°-90°	309.1	3.4
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°	9172.0	100.0
0°-180°	9172.0	100.0

Coefficient of Utilization



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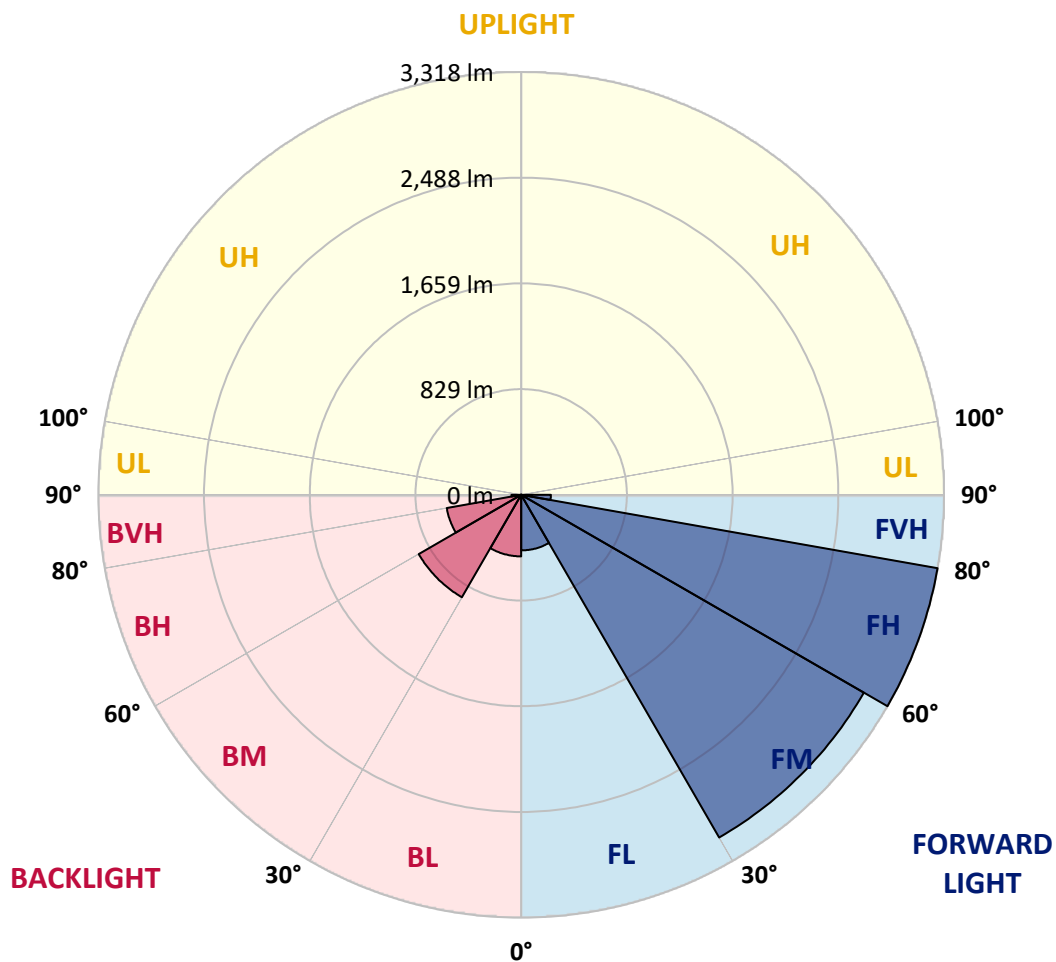
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	436.2	4.8			
FM	(30°-60°)	3105.0	33.9			
FH	(60°-80°)	3317.5	36.2			G2/5000
FVH	(80°-90°)	233.2	2.5			G3/500
BL	(0°-30°)	483.2	5.3	B1/500		
BM	(30°-60°)	928.1	10.1	B1/1000		
BH	(60°-80°)	592.8	6.5	B2/1000		G2/1000
BVH	(80°-90°)	76.0	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-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5
2.5°	931.1	926.3	927.5	927.5	932.3	934.8	936.0	939.6	942.0	948.1	956.6
5°	887.5	883.9	885.1	886.3	894.8	903.3	910.5	915.4	922.7	932.3	944.4
7.5°	856.1	853.6	854.8	857.3	864.5	874.2	886.3	893.6	904.5	922.7	943.2
10°	833.0	833.0	834.3	839.1	846.4	858.5	868.2	876.6	898.4	931.1	962.6
12.5°	814.9	814.9	818.5	828.2	840.3	852.4	875.4	885.1	914.2	959.0	996.5
15°	813.7	814.9	816.1	824.6	837.9	864.5	898.4	913.0	948.1	1001.4	1044.9
17.5°	833.0	834.3	829.4	831.8	847.6	885.1	929.9	946.9	991.7	1049.8	1094.6
20°	892.4	892.4	877.8	864.5	875.4	916.6	967.5	984.4	1034.0	1098.2	1143.0
22.5°	1013.5	1019.5	985.6	956.6	939.6	962.6	1008.6	1026.8	1082.5	1151.5	1196.3
25°	1160.0	1166.0	1120.0	1078.8	1047.4	1043.7	1074.0	1093.4	1139.4	1210.8	1248.4
27.5°	1301.6	1290.7	1248.4	1209.6	1169.7	1137.0	1160.0	1176.9	1230.2	1284.7	1307.7
30°	1413.0	1404.6	1363.4	1335.5	1298.0	1255.6	1242.3	1260.5	1304.1	1354.9	1367.0
32.5°	1536.5	1530.5	1489.3	1453.0	1421.5	1381.6	1352.5	1361.0	1385.2	1421.5	1428.8
35°	1693.9	1707.3	1663.7	1589.8	1554.7	1516.0	1495.4	1497.8	1516.0	1539.0	1526.9
37.5°	1859.8	1875.6	1878.0	1761.8	1714.5	1679.4	1657.6	1666.1	1687.9	1703.6	1666.1
40°	2167.4	2151.6	2088.7	2002.7	1930.1	1896.2	1865.9	1864.7	1880.4	1908.3	1840.5
42.5°	2575.4	2560.9	2433.8	2322.4	2207.3	2168.6	2109.3	2083.8	2091.1	2126.2	2031.8
45°	2966.5	2960.5	2858.8	2729.2	2591.2	2516.1	2380.5	2318.7	2312.7	2340.5	2227.9
47.5°	3314.0	3287.4	3213.5	3113.0	3098.5	2902.4	2652.9	2569.4	2540.3	2556.1	2430.1
50°	3685.8	3594.9	3493.2	3431.5	3536.8	3354.0	2927.8	2840.6	2769.2	2780.1	2649.3
52.5°	3883.1	3730.6	3664.0	3682.1	3823.8	3753.6	3226.9	3120.3	3005.3	3021.0	2867.2
55°	3713.6	3712.4	3741.5	3854.1	4051.4	3970.3	3511.4	3391.5	3265.6	3269.2	3117.9
57.5°	3481.1	3528.4	3678.5	3926.7	4333.6	4197.9	3791.1	3664.0	3548.9	3530.8	3402.4
60°	3269.2	3321.3	3539.2	3914.6	4431.6	4406.2	4057.5	3946.1	3852.9	3799.6	3701.5
62.5°	2947.2	2985.9	3294.7	3837.1	4349.3	4556.3	4327.5	4251.2	4181.0	4070.8	4023.6
65°	2568.2	2581.5	2907.2	3581.6	4246.4	4614.5	4596.3	4562.4	4494.6	4332.3	4342.0
67.5°	2157.7	2184.3	2470.1	3173.6	4021.2	4587.8	4804.6	4832.4	4752.5	4509.1	4545.4
70°	1720.6	1753.3	1970.0	2609.3	3638.5	4472.8	4997.1	5041.9	4888.1	4567.2	4583.0
72.5°	1064.3	1095.8	1241.1	1812.6	2884.2	4086.5	5056.4	5114.5	4891.7	4489.7	4338.4
75°	368.1	371.7	485.5	869.4	1712.1	3085.2	4862.7	4999.5	4738.0	4207.6	3775.4
77.5°	168.3	174.4	215.5	358.4	759.2	1664.9	4015.1	4357.8	4270.6	3766.9	2906.0
80°	116.2	118.7	148.9	214.3	438.3	586.0	2534.3	2981.1	3133.6	2916.9	1862.3
82.5°	87.2	89.6	115.0	145.3	316.0	284.5	965.0	1385.2	1721.8	1690.3	778.6
85°	83.5	82.3	89.6	96.9	210.7	169.5	312.4	428.6	672.0	575.1	196.2
87.5°	36.3	40.0	92.0	54.5	110.2	78.7	135.6	158.6	204.6	178.0	70.2
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°	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5
2.5°	960.2	962.6	969.9	980.8	986.8	998.9	1007.4	1012.3	1015.9	1017.1	1017.1
5°	951.7	956.6	972.3	990.5	1007.4	1032.8	1055.8	1069.2	1078.8	1082.5	1083.7
7.5°	954.1	966.2	989.2	1015.9	1037.7	1070.4	1098.2	1124.9	1146.7	1155.1	1155.1
10°	977.1	994.1	1025.6	1060.7	1088.5	1122.4	1151.5	1174.5	1199.9	1214.5	1216.9
12.5°	1012.3	1032.8	1074.0	1112.8	1144.2	1170.9	1197.5	1214.5	1226.6	1237.5	1239.9
15°	1061.9	1087.3	1128.5	1168.4	1196.3	1213.2	1220.5	1220.5	1219.3	1220.5	1222.9
17.5°	1111.5	1135.8	1176.9	1216.9	1230.2	1220.5	1212.0	1209.6	1208.4	1206.0	1207.2
20°	1160.0	1183.0	1218.1	1248.4	1237.5	1203.6	1192.7	1191.5	1187.8	1185.4	1183.0
22.5°	1208.4	1225.4	1254.4	1265.3	1221.7	1173.3	1160.0	1152.7	1147.9	1141.8	1135.8
25°	1264.1	1268.9	1290.7	1273.8	1183.0	1117.6	1098.2	1087.3	1082.5	1076.4	1071.6
27.5°	1316.2	1316.2	1319.8	1260.5	1126.1	1043.7	1014.7	995.3	994.1	992.9	991.7
30°	1363.4	1357.3	1345.2	1220.5	1052.2	952.9	909.3	890.0	897.2	903.3	904.5
32.5°	1419.1	1407.0	1373.1	1166.0	963.8	851.2	797.9	789.5	797.9	805.2	800.4
35°	1506.3	1484.5	1402.1	1103.1	879.1	758.0	707.1	695.0	692.6	691.4	681.7
37.5°	1631.0	1593.4	1425.1	1035.3	795.5	675.6	638.1	612.7	589.7	565.5	561.8
40°	1783.5	1719.4	1440.9	957.8	707.1	606.6	566.7	534.0	495.2	452.8	448.0
42.5°	1950.6	1855.0	1448.1	871.8	629.6	549.7	500.1	458.9	415.3	382.6	376.6
45°	2131.1	2001.5	1442.1	789.5	566.7	501.3	445.6	400.8	365.7	342.7	337.8
47.5°	2306.6	2169.8	1425.1	724.1	518.2	460.1	403.2	362.0	335.4	310.0	303.9
50°	2531.8	2330.8	1404.6	673.2	465.0	418.9	376.6	333.0	302.7	290.6	288.2
52.5°	2781.3	2491.9	1380.3	609.0	412.9	386.3	359.6	320.9	311.2	288.2	284.5
55°	3051.3	2683.2	1375.5	527.9	366.9	363.2	342.7	331.8	334.2	288.2	282.1
57.5°	3335.8	2887.8	1386.4	446.8	329.3	342.7	349.9	341.5	337.8	294.2	282.1
60°	3632.5	3085.2	1353.7	371.7	300.3	325.7	358.4	336.6	310.0	291.8	283.3
62.5°	3920.7	3251.1	1212.0	318.4	278.5	320.9	353.6	318.4	288.2	288.2	284.5
65°	4130.1	3324.9	948.1	279.7	264.0	314.8	345.1	306.3	282.1	290.6	285.8
67.5°	4154.3	3248.6	636.9	249.4	251.9	303.9	325.7	295.4	276.1	297.9	290.6
70°	4005.4	3050.1	389.9	226.4	236.1	284.5	308.8	284.5	267.6	291.8	280.9
72.5°	3619.2	2679.6	274.9	207.1	219.2	266.4	293.0	274.9	255.5	264.0	253.1
75°	2968.9	2076.6	217.9	188.9	202.2	249.4	279.7	260.3	241.0	237.3	230.1
77.5°	2103.2	1330.7	175.6	174.4	184.0	228.8	261.5	243.4	224.0	216.7	211.9
80°	1209.6	652.6	151.4	157.4	167.1	208.3	239.7	224.0	205.8	194.9	187.7
82.5°	462.5	227.6	133.2	136.8	147.7	186.5	217.9	204.6	186.5	196.2	164.7
85°	150.1	124.7	109.0	112.6	123.5	155.0	192.5	181.6	161.0	142.9	132.0
87.5°	66.6	67.8	58.1	64.2	77.5	102.9	140.5	133.2	117.5	98.1	94.4
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)