

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: P398117

Luminaire Tested: **ARCH-S-PA1-90-727-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P398117
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-PA1-90-727-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9755 lumens
Efficiency: N/A
Efficacy: 103.8 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): 94
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

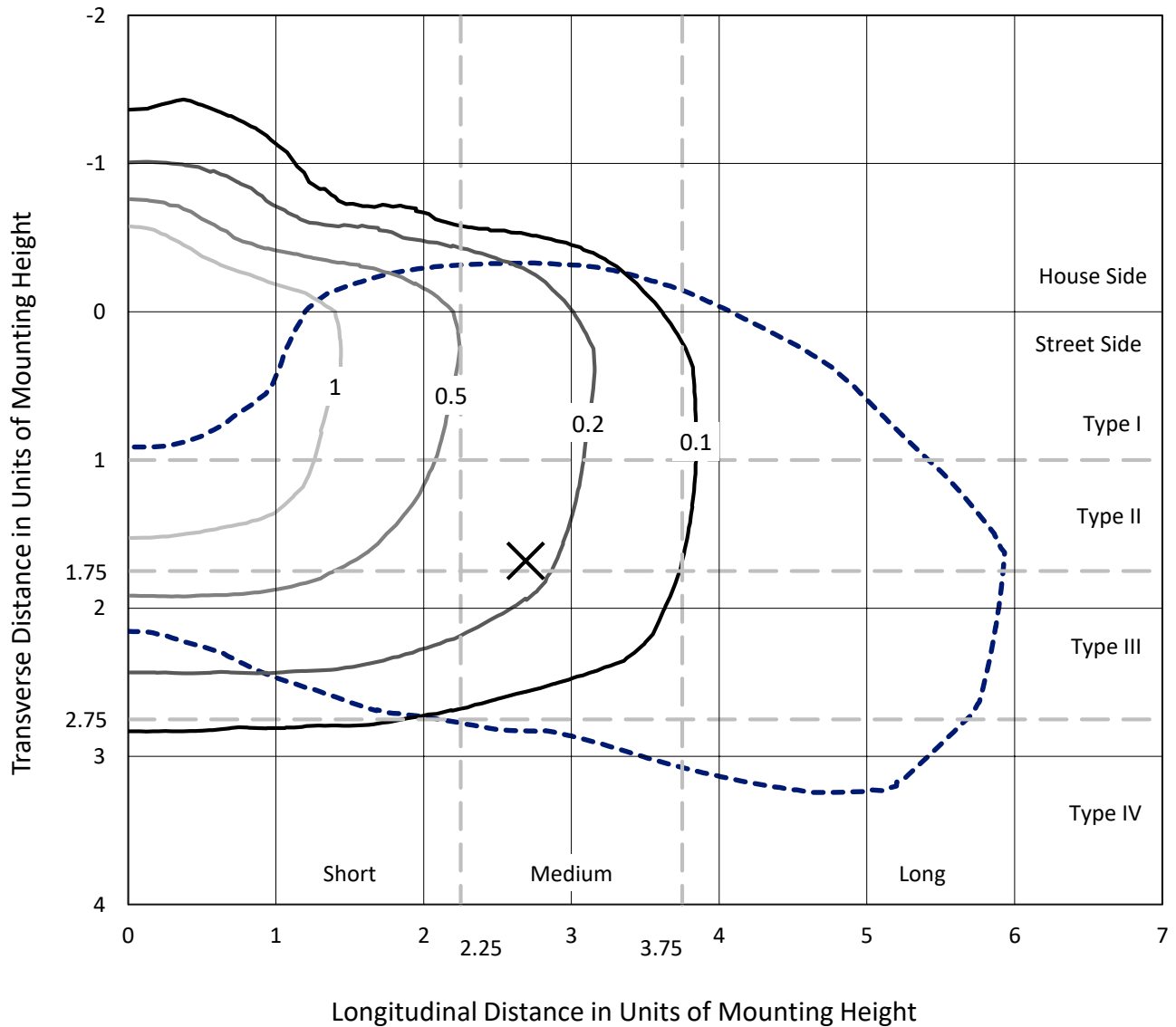


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

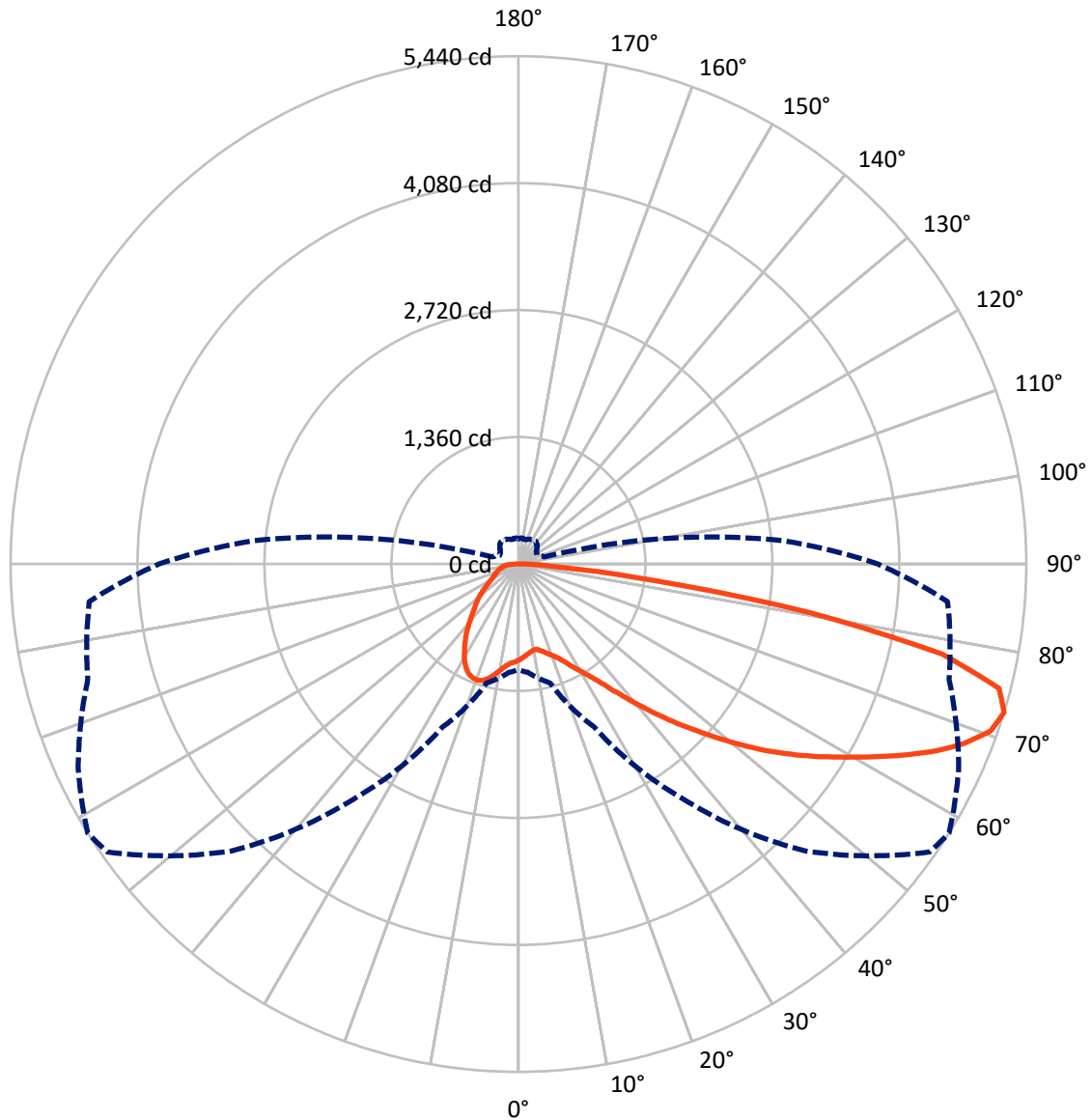


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Medium - Non-Cutoff

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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	2212.3	0.0	2212.3
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	7542.7	0.0	7542.7
	% Fixture	77.3	0.0	77.3
Total	Lumens	9755.0	0.0	9755.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	1.0
10°-20°	314.8	3.2
20°-30°	563.9	5.8
30°-40°	848.2	8.7
40°-50°	1373.6	14.1
50°-60°	2067.7	21.2
60°-70°	2433.4	24.9
70°-80°	1725.5	17.7
80°-90°	328.8	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°	9755.0	100.0
0°-180°	9755.0	100.0



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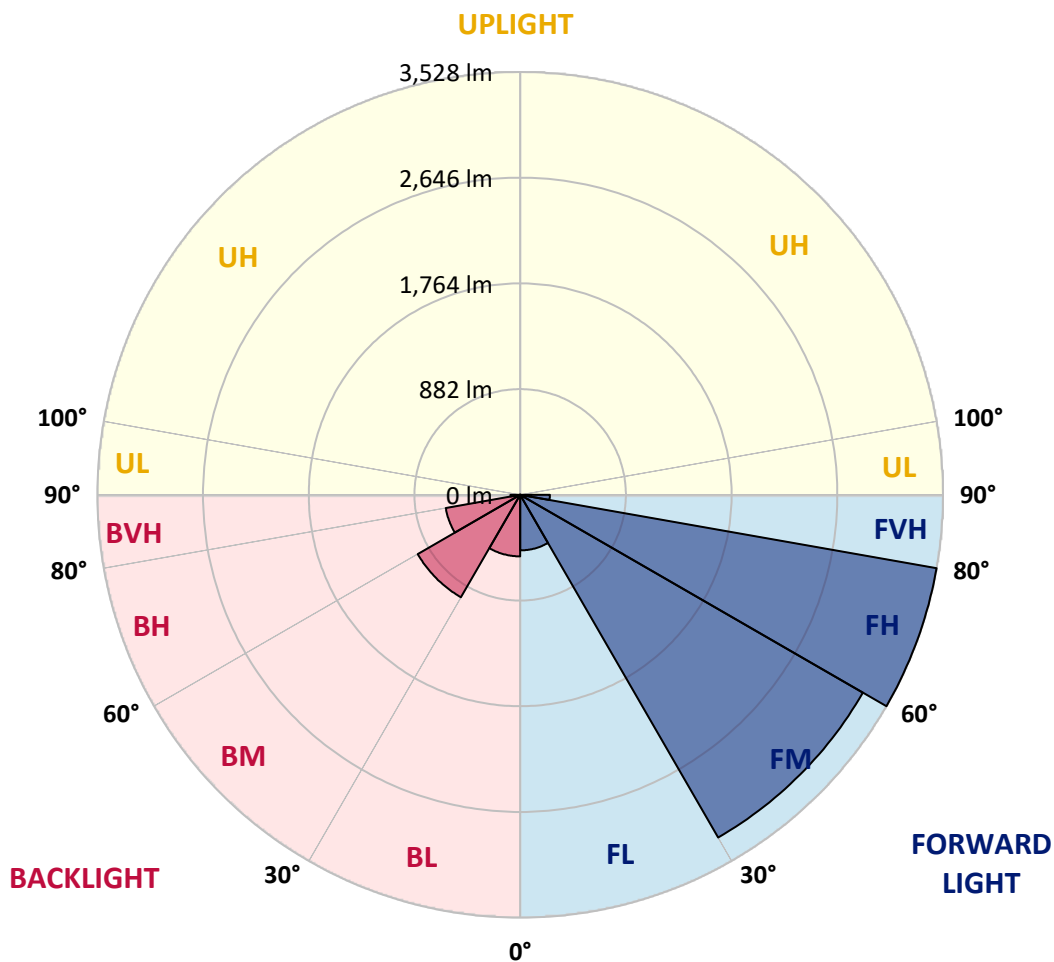
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	463.9	4.8			
FM	(30°-60°)	3302.4	33.9			
FH	(60°-80°)	3528.4	36.2			G2/5000
FVH	(80°-90°)	248.0	2.5			G3/500
BL	(0°-30°)	513.9	5.3	B2/1000		
BM	(30°-60°)	987.1	10.1	B1/1000		
BH	(60°-80°)	630.5	6.5	B2/1000		G2/1000
BVH	(80°-90°)	80.8	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°	1028.9	1028.9	1028.9	1028.9	1028.9	1028.9	1028.9	1028.9	1028.9	1028.9	1028.9
2.5°	990.3	985.2	986.4	986.4	991.6	994.2	995.5	999.3	1001.9	1008.3	1017.4
5°	944.0	940.1	941.4	942.7	951.7	960.7	968.4	973.6	981.3	991.6	1004.5
7.5°	910.5	907.9	909.2	911.8	919.5	929.8	942.7	950.4	962.0	981.3	1003.2
10°	886.0	886.0	887.3	892.4	900.2	913.0	923.3	932.4	955.5	990.3	1023.8
12.5°	866.7	866.7	870.5	880.8	893.7	906.6	931.1	941.4	972.3	1019.9	1059.9
15°	865.4	866.7	868.0	877.0	891.2	919.5	955.5	971.0	1008.3	1065.0	1111.4
17.5°	886.0	887.3	882.1	884.7	901.5	941.4	989.0	1007.1	1054.7	1116.5	1164.2
20°	949.1	949.1	933.6	919.5	931.1	974.9	1028.9	1047.0	1099.8	1168.0	1215.7
22.5°	1077.9	1084.3	1048.3	1017.4	999.3	1023.8	1072.7	1092.0	1151.3	1224.7	1272.3
25°	1233.7	1240.1	1191.2	1147.4	1113.9	1110.1	1142.3	1162.9	1211.8	1287.8	1327.7
27.5°	1384.4	1372.8	1327.7	1286.5	1244.0	1209.2	1233.7	1251.7	1308.4	1366.3	1390.8
30°	1502.9	1493.8	1450.1	1420.4	1380.5	1335.4	1321.3	1340.6	1387.0	1441.0	1453.9
32.5°	1634.2	1627.8	1584.0	1545.3	1511.9	1469.4	1438.5	1447.5	1473.2	1511.9	1519.6
35°	1801.6	1815.8	1769.4	1690.9	1653.5	1612.3	1590.4	1593.0	1612.3	1636.8	1623.9
37.5°	1978.0	1994.8	1997.4	1873.7	1823.5	1786.2	1763.0	1772.0	1795.2	1811.9	1772.0
40°	2305.1	2288.4	2221.4	2130.0	2052.7	2016.7	1984.5	1983.2	1999.9	2029.6	1957.4
42.5°	2739.1	2723.7	2588.5	2470.0	2347.6	2306.4	2243.3	2216.3	2224.0	2261.4	2160.9
45°	3155.1	3148.6	3040.5	2902.7	2755.9	2676.0	2531.8	2466.1	2459.7	2489.3	2369.5
47.5°	3524.7	3496.4	3417.8	3310.9	3295.5	3086.8	2821.6	2732.7	2701.8	2718.5	2584.6
50°	3920.0	3823.5	3715.3	3649.6	3761.6	3567.2	3113.9	3021.2	2945.2	2956.8	2817.7
52.5°	4129.9	3967.7	3896.9	3916.2	4066.8	3992.2	3432.0	3318.6	3196.3	3213.0	3049.5
55°	3949.7	3948.4	3979.3	4099.0	4308.9	4222.7	3734.6	3607.1	3473.2	3477.0	3316.1
57.5°	3702.4	3752.6	3912.3	4176.3	4609.0	4464.8	4032.1	3896.9	3774.5	3755.2	3618.7
60°	3477.0	3532.4	3764.2	4163.4	4713.3	4686.3	4315.4	4196.9	4097.8	4041.1	3936.8
62.5°	3134.5	3175.7	3504.1	4081.0	4625.7	4846.0	4602.6	4521.4	4446.7	4329.6	4279.3
65°	2731.4	2745.6	3092.0	3809.3	4516.3	4907.8	4888.5	4852.4	4780.3	4607.7	4618.0
67.5°	2294.8	2323.2	2627.1	3375.3	4276.8	4879.4	5110.0	5139.6	5054.6	4795.7	4834.4
70°	1830.0	1864.7	2095.2	2775.2	3869.8	4757.1	5314.7	5362.4	5198.8	4857.5	4874.3
72.5°	1132.0	1165.5	1320.0	1927.8	3067.5	4346.3	5377.8	5439.6	5202.7	4775.1	4614.2
75°	391.5	395.4	516.4	924.6	1820.9	3281.3	5171.8	5317.3	5039.1	4475.1	4015.3
77.5°	179.0	185.4	229.2	381.2	807.4	1770.7	4270.3	4634.8	4542.0	4006.3	3090.7
80°	123.6	126.2	158.4	227.9	466.2	623.3	2695.3	3170.5	3332.8	3102.3	1980.6
82.5°	92.7	95.3	122.3	154.5	336.1	302.6	1026.4	1473.2	1831.2	1797.8	828.0
85°	88.9	87.6	95.3	103.0	224.1	180.3	332.3	455.9	714.7	611.7	208.6
87.5°	38.6	42.5	97.9	58.0	117.2	83.7	144.2	168.7	217.6	189.3	74.7
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°	1028.9	1028.9	1028.9	1028.9	1028.9	1028.9	1028.9	1028.9	1028.9	1028.9	1028.9
2.5°	1021.2	1023.8	1031.5	1043.1	1049.5	1062.4	1071.4	1076.6	1080.5	1081.7	1081.7
5°	1012.2	1017.4	1034.1	1053.4	1071.4	1098.5	1123.0	1137.1	1147.4	1151.3	1152.6
7.5°	1014.8	1027.7	1052.1	1080.5	1103.6	1138.4	1168.0	1196.4	1219.5	1228.6	1228.6
10°	1039.2	1057.3	1090.8	1128.1	1157.7	1193.8	1224.7	1249.2	1276.2	1291.7	1294.2
12.5°	1076.6	1098.5	1142.3	1183.5	1217.0	1245.3	1273.6	1291.7	1304.5	1316.1	1318.7
15°	1129.4	1156.4	1200.2	1242.7	1272.3	1290.4	1298.1	1298.1	1296.8	1298.1	1300.7
17.5°	1182.2	1207.9	1251.7	1294.2	1308.4	1298.1	1289.1	1286.5	1285.2	1282.6	1283.9
20°	1233.7	1258.2	1295.5	1327.7	1316.1	1280.1	1268.5	1267.2	1263.3	1260.7	1258.2
22.5°	1285.2	1303.2	1334.2	1345.7	1299.4	1247.9	1233.7	1226.0	1220.8	1214.4	1207.9
25°	1344.5	1349.6	1372.8	1354.8	1258.2	1188.6	1168.0	1156.4	1151.3	1144.8	1139.7
27.5°	1399.8	1399.8	1403.7	1340.6	1197.6	1110.1	1079.2	1058.6	1057.3	1056.0	1054.7
30°	1450.1	1443.6	1430.7	1298.1	1119.1	1013.5	967.1	946.5	954.3	960.7	962.0
32.5°	1509.3	1496.4	1460.4	1240.1	1025.1	905.3	848.7	839.6	848.7	856.4	851.2
35°	1602.0	1578.8	1491.3	1173.2	934.9	806.2	752.1	739.2	736.6	735.3	725.0
37.5°	1734.7	1694.7	1515.7	1101.1	846.1	718.6	678.7	651.6	627.2	601.4	597.5
40°	1896.9	1828.7	1532.5	1018.6	752.1	645.2	602.7	567.9	526.7	481.6	476.5
42.5°	2074.6	1972.9	1540.2	927.2	669.7	584.7	531.9	488.1	441.7	406.9	400.5
45°	2266.5	2128.7	1533.8	839.6	602.7	533.1	473.9	426.3	388.9	364.4	359.3
47.5°	2453.2	2307.7	1515.7	770.1	551.2	489.4	428.8	385.0	356.7	329.7	323.2
50°	2692.8	2479.0	1493.8	716.0	494.5	445.6	400.5	354.1	321.9	309.1	306.5
52.5°	2958.1	2650.3	1468.1	647.8	439.1	410.8	382.5	341.3	331.0	306.5	302.6
55°	3245.2	2853.7	1462.9	561.5	390.2	386.3	364.4	352.9	355.4	306.5	300.1
57.5°	3547.9	3071.4	1474.5	475.2	350.3	364.4	372.2	363.2	359.3	312.9	300.1
60°	3863.4	3281.3	1439.8	395.4	319.4	346.4	381.2	358.0	329.7	310.4	301.3
62.5°	4169.9	3457.7	1289.1	338.7	296.2	341.3	376.0	338.7	306.5	306.5	302.6
65°	4392.7	3536.3	1008.3	297.5	280.7	334.8	367.0	325.8	300.1	309.1	303.9
67.5°	4418.4	3455.1	677.4	265.3	267.9	323.2	346.4	314.2	293.6	316.8	309.1
70°	4260.0	3243.9	414.7	240.8	251.1	302.6	328.4	302.6	284.6	310.4	298.8
72.5°	3849.2	2849.9	292.3	220.2	233.1	283.3	311.6	292.3	271.7	280.7	269.1
75°	3157.7	2208.6	231.8	200.9	215.1	265.3	297.5	276.9	256.3	252.4	244.7
77.5°	2236.9	1415.3	186.7	185.4	195.7	243.4	278.2	258.8	238.2	230.5	225.4
80°	1286.5	694.1	161.0	167.4	177.7	221.5	255.0	238.2	218.9	207.3	199.6
82.5°	491.9	242.1	141.7	145.5	157.1	198.3	231.8	217.6	198.3	208.6	175.1
85°	159.7	132.6	115.9	119.8	131.4	164.8	204.8	193.2	171.3	152.0	140.4
87.5°	70.8	72.1	61.8	68.3	82.4	109.5	149.4	141.7	124.9	104.3	100.4
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)