

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: P398056

Luminaire Tested: **ARCH-S-PA1-80-730-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P398056
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-PA1-80-730-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9847 lumens
Efficiency: N/A
Efficacy: 118.6 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

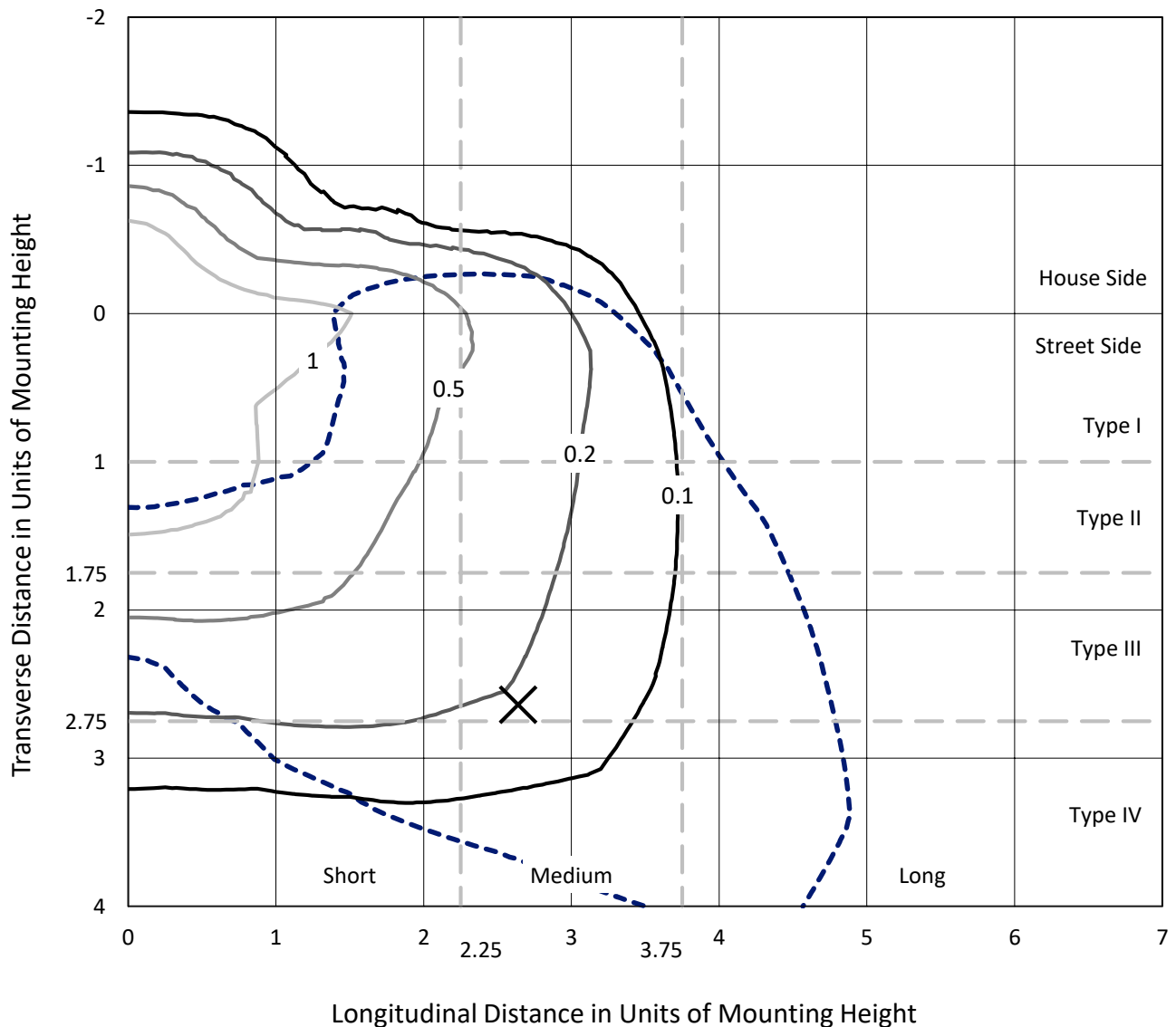
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

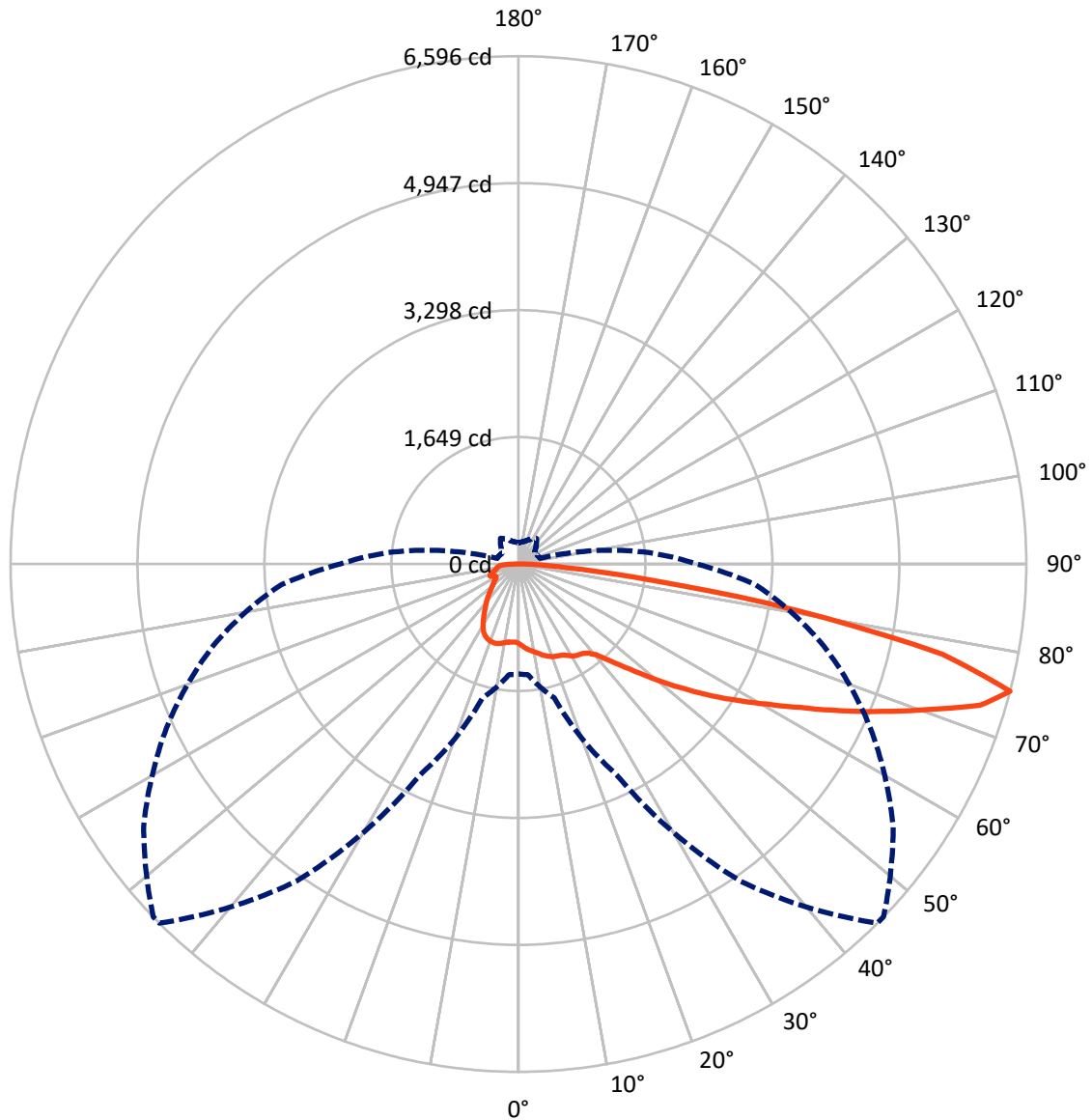


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2176.1	0.0	2176.1
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	7670.9	0.0	7670.9
	% Fixture	77.9	0.0	77.9
Total	Lumens	9847.0	0.0	9847.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.3	1.0
10°-20°	325.5	3.3
20°-30°	554.9	5.6
30°-40°	777.5	7.9
40°-50°	1142.2	11.6
50°-60°	1817.8	18.5
60°-70°	2585.9	26.3
70°-80°	2165.2	22.0
80°-90°	375.8	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°	9847.0	100.0
0°-180°	9847.0	100.0

Coefficient of Utilization



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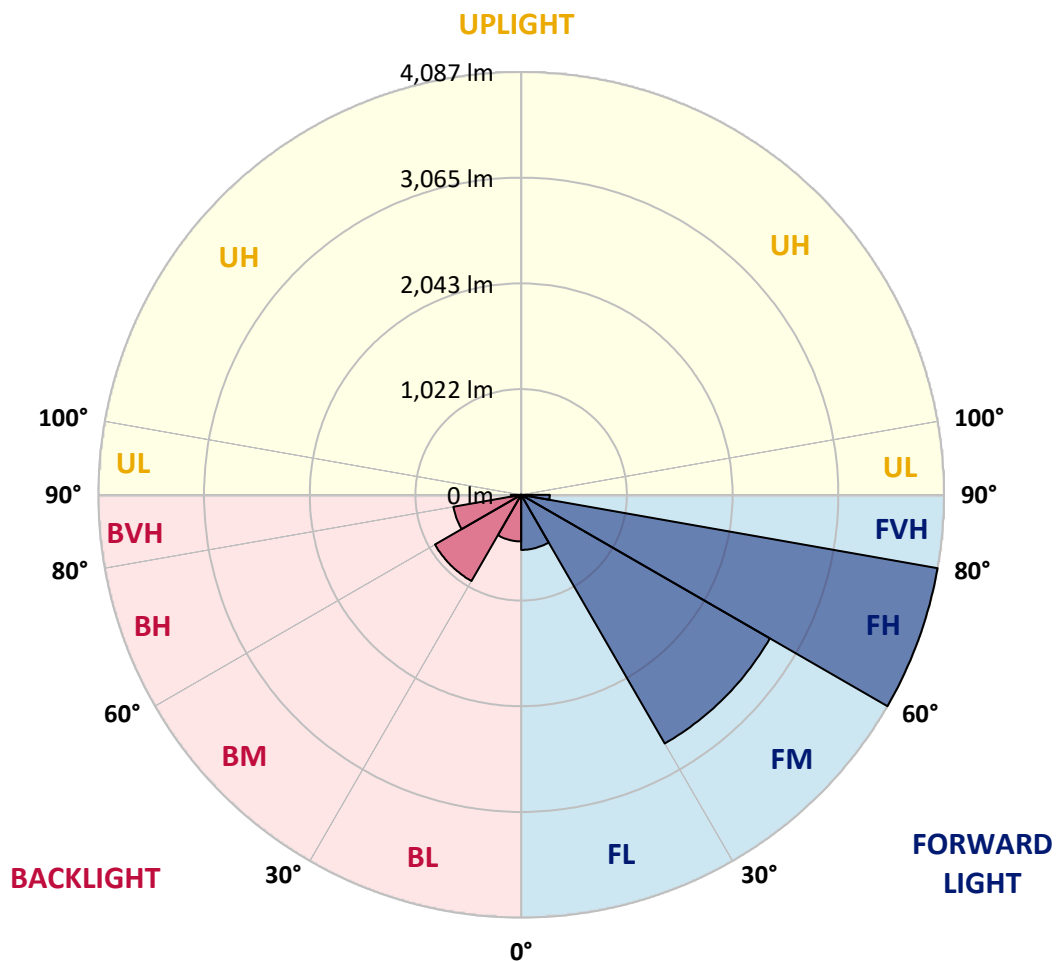
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	532.3	5.4			
FM (30°-60°)	2775.6	28.2			
FH (60°-80°)	4086.7	41.5			G2/5000
FVH (80°-90°)	276.3	2.8			G3/500
BL (0°-30°)	450.4	4.6	B1/500		
BM (30°-60°)	962.0	9.8	B1/1000		
BH (60°-80°)	664.3	6.7	B2/1000		G2/1000
BVH (80°-90°)	99.5	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°	1034.2	1034.2	1034.2	1034.2	1034.2	1034.2	1034.2	1034.2	1034.2	1034.2	1034.2
2.5°	1093.4	1088.1	1085.5	1085.5	1074.9	1068.4	1067.0	1057.8	1049.9	1042.0	1035.5
5°	1156.5	1152.6	1144.7	1138.1	1123.6	1105.2	1102.6	1082.8	1063.1	1044.7	1028.9
7.5°	1214.4	1206.5	1197.3	1184.1	1160.5	1135.5	1131.5	1103.9	1076.3	1048.6	1027.6
10°	1263.1	1255.2	1242.0	1223.6	1193.4	1163.1	1159.1	1130.2	1101.3	1068.4	1038.1
12.5°	1309.1	1302.6	1282.8	1257.8	1222.3	1194.7	1190.7	1165.7	1135.5	1098.6	1059.1
15°	1348.6	1342.0	1321.0	1292.0	1251.2	1230.2	1224.9	1201.2	1171.0	1131.5	1090.7
17.5°	1368.3	1368.3	1346.0	1314.4	1276.2	1260.5	1256.5	1227.6	1199.9	1161.8	1121.0
20°	1374.9	1377.6	1361.8	1323.6	1290.7	1284.1	1280.2	1256.5	1224.9	1188.1	1149.9
22.5°	1378.9	1384.1	1371.0	1327.6	1299.9	1296.0	1293.3	1277.6	1252.6	1217.0	1178.9
25°	1392.0	1392.0	1382.8	1334.1	1311.8	1310.5	1310.5	1301.2	1284.1	1253.9	1215.7
27.5°	1411.8	1410.4	1398.6	1348.6	1338.1	1342.0	1340.7	1339.4	1327.6	1297.3	1256.5
30°	1444.7	1444.7	1431.5	1377.6	1371.0	1388.1	1389.4	1392.0	1373.6	1326.2	1293.3
32.5°	1494.7	1489.4	1476.2	1406.5	1396.0	1411.8	1414.4	1413.1	1397.3	1352.6	1336.8
35°	1648.6	1636.7	1589.4	1471.0	1418.3	1427.5	1428.9	1435.4	1438.1	1402.6	1394.7
37.5°	1918.3	1902.5	1830.2	1623.6	1489.4	1467.0	1465.7	1482.8	1497.3	1465.7	1465.7
40°	2211.7	2198.6	2156.5	1886.7	1621.0	1547.3	1542.0	1557.8	1576.2	1553.9	1560.4
42.5°	2464.3	2474.9	2478.8	2165.7	1818.3	1697.3	1682.8	1660.4	1689.4	1669.6	1696.0
45°	2653.8	2648.5	2720.9	2451.2	2073.6	1885.4	1865.7	1805.2	1842.0	1840.7	1898.6
47.5°	2855.1	2845.9	2876.1	2719.6	2364.3	2115.7	2085.4	1995.9	2051.2	2089.4	2185.4
50°	3045.9	3048.5	3059.0	2931.4	2680.1	2395.9	2357.8	2238.0	2317.0	2397.2	2532.7
52.5°	3294.5	3276.1	3263.0	3178.8	3034.0	2688.0	2663.0	2526.2	2636.7	2731.4	2911.7
55°	3511.6	3499.8	3491.9	3488.0	3330.1	3010.4	2984.0	2841.9	3001.1	3068.2	3334.0
57.5°	3743.2	3736.6	3778.7	3845.8	3782.7	3338.0	3310.3	3173.5	3351.1	3398.5	3791.9
60°	3912.9	3916.9	4032.7	4203.7	4160.3	3693.2	3660.3	3539.3	3691.9	3734.0	4249.8
62.5°	3914.2	3953.7	4222.1	4528.7	4578.7	4102.4	4064.2	3932.7	4041.9	4041.9	4660.3
65°	3540.6	3585.3	4187.9	4608.9	5002.3	4589.2	4552.4	4345.8	4386.6	4331.3	5045.8
67.5°	3168.2	3220.9	3787.9	4615.5	5299.7	5110.2	5066.8	4758.9	4689.2	4549.7	5315.5
70°	2920.9	2957.7	3431.4	4530.0	5478.6	5654.9	5622.0	5151.0	4927.3	4732.6	5258.9
72.5°	2459.1	2445.9	2898.5	4123.4	5578.6	6273.3	6245.7	5577.3	5133.9	4645.8	4485.3
75°	1427.5	1443.3	1798.6	3020.9	5028.7	6595.7	6593.0	5941.8	5043.1	4103.7	3090.6
77.5°	411.8	423.7	590.8	1327.6	3180.1	5626.0	5806.2	5433.9	4262.9	2924.8	1602.5
80°	180.3	189.5	256.6	442.1	1369.7	3674.8	3832.7	3674.8	2570.9	1342.0	628.9
82.5°	106.6	113.2	167.1	273.7	656.5	1748.6	1961.7	1713.1	1109.1	569.7	260.5
85°	60.5	63.2	96.0	173.7	413.1	611.8	686.8	643.4	540.8	323.7	136.8
87.5°	27.6	28.9	47.4	81.6	231.6	206.6	214.5	284.2	313.1	197.4	68.4
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°	1034.2	1034.2	1034.2	1034.2	1034.2	1034.2	1034.2	1034.2	1034.2	1034.2	1034.2
2.5°	1032.8	1028.9	1021.0	1018.4	1014.4	1015.7	1017.0	1017.0	1018.4	1014.4	1014.4
5°	1022.3	1015.7	1007.8	1007.8	1007.8	1018.4	1027.6	1032.8	1035.5	1035.5	1032.8
7.5°	1018.4	1010.5	1001.3	1003.9	1006.5	1019.7	1036.8	1053.9	1059.1	1059.1	1056.5
10°	1026.3	1018.4	1011.8	1015.7	1022.3	1032.8	1046.0	1061.8	1074.9	1076.3	1074.9
12.5°	1044.7	1035.5	1028.9	1036.8	1044.7	1051.3	1057.8	1064.4	1081.5	1084.1	1084.1
15°	1074.9	1065.7	1057.8	1064.4	1067.0	1067.0	1067.0	1067.0	1084.1	1086.8	1086.8
17.5°	1105.2	1097.3	1089.4	1090.7	1082.8	1072.3	1068.4	1067.0	1076.3	1084.1	1085.5
20°	1134.1	1127.6	1119.7	1106.5	1086.8	1067.0	1060.5	1060.5	1065.7	1077.6	1077.6
22.5°	1165.7	1157.8	1144.7	1114.4	1081.5	1053.9	1047.3	1051.3	1057.8	1073.6	1072.3
25°	1201.2	1190.7	1168.4	1111.8	1064.4	1031.5	1032.8	1044.7	1056.5	1073.6	1073.6
27.5°	1240.7	1226.2	1181.5	1090.7	1026.3	994.7	1006.5	1034.2	1051.3	1069.7	1072.3
30°	1284.1	1271.0	1192.0	1053.9	964.4	935.5	964.4	1009.2	1035.5	1052.6	1056.5
32.5°	1336.8	1326.2	1201.2	1006.5	884.2	859.2	901.3	956.5	998.6	1018.4	1022.3
35°	1402.6	1392.0	1213.1	952.6	809.2	782.8	821.0	877.6	932.8	957.8	965.7
37.5°	1488.1	1472.3	1223.6	894.7	746.0	715.7	734.2	785.5	835.5	869.7	878.9
40°	1597.3	1572.3	1232.8	828.9	690.7	656.5	663.1	688.1	717.1	747.3	759.2
42.5°	1751.2	1701.2	1234.1	759.2	634.2	602.6	600.0	607.9	607.9	607.9	611.8
45°	1965.7	1870.9	1236.8	693.4	576.3	543.4	535.5	532.9	513.1	475.0	472.3
47.5°	2236.7	2093.3	1248.6	638.1	515.8	486.8	476.3	465.8	428.9	389.5	381.6
50°	2584.1	2351.2	1272.3	585.5	464.4	444.7	431.6	406.6	365.8	335.5	327.6
52.5°	2984.0	2657.7	1294.7	530.2	426.3	413.1	397.3	367.1	323.7	305.2	302.6
55°	3443.2	2999.8	1339.4	481.6	393.4	384.2	369.7	340.8	307.9	294.7	293.4
57.5°	3912.9	3382.7	1402.6	438.1	361.8	356.6	356.6	331.6	310.5	305.2	305.2
60°	4365.5	3711.6	1353.9	397.3	332.9	335.5	360.5	353.9	338.1	344.7	348.7
62.5°	4716.8	3905.0	1098.6	364.5	311.8	335.5	400.0	400.0	381.6	378.9	378.9
65°	4866.8	3902.4	772.3	339.5	303.9	368.4	446.0	425.0	376.3	357.9	353.9
67.5°	4828.7	3731.4	532.9	322.3	301.3	402.6	467.1	407.9	352.6	336.8	325.0
70°	4493.2	3369.5	410.5	306.6	297.4	388.1	460.5	388.1	334.2	319.7	309.2
72.5°	3624.8	2702.5	340.8	290.8	281.6	359.2	438.1	369.7	319.7	303.9	293.4
75°	2311.7	1699.9	288.1	269.7	251.3	322.3	407.9	351.3	303.9	282.9	275.0
77.5°	1111.8	732.9	251.3	244.7	226.3	298.7	377.6	327.6	282.9	265.8	260.5
80°	450.0	335.5	218.4	219.7	207.9	284.2	356.6	305.2	261.8	243.4	234.2
82.5°	234.2	194.7	184.2	189.5	189.5	271.0	340.8	286.8	243.4	235.5	205.3
85°	126.3	121.0	142.1	152.6	164.5	244.7	317.1	267.1	222.4	190.8	184.2
87.5°	61.8	78.9	80.3	92.1	114.5	196.0	267.1	223.7	185.5	153.9	151.3
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)