

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: P397908

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

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
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-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8243 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

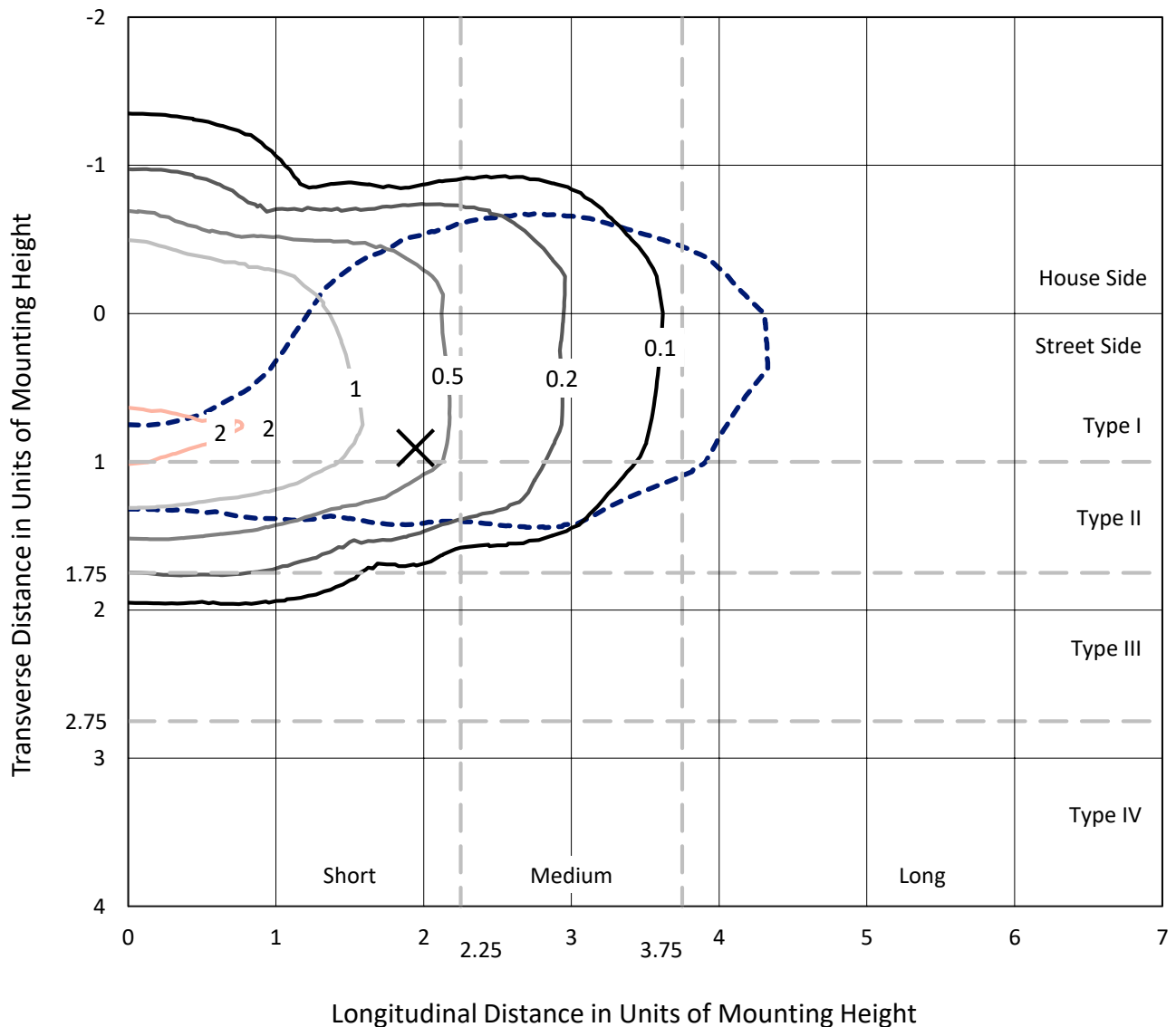
Input Watts (W): 64
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

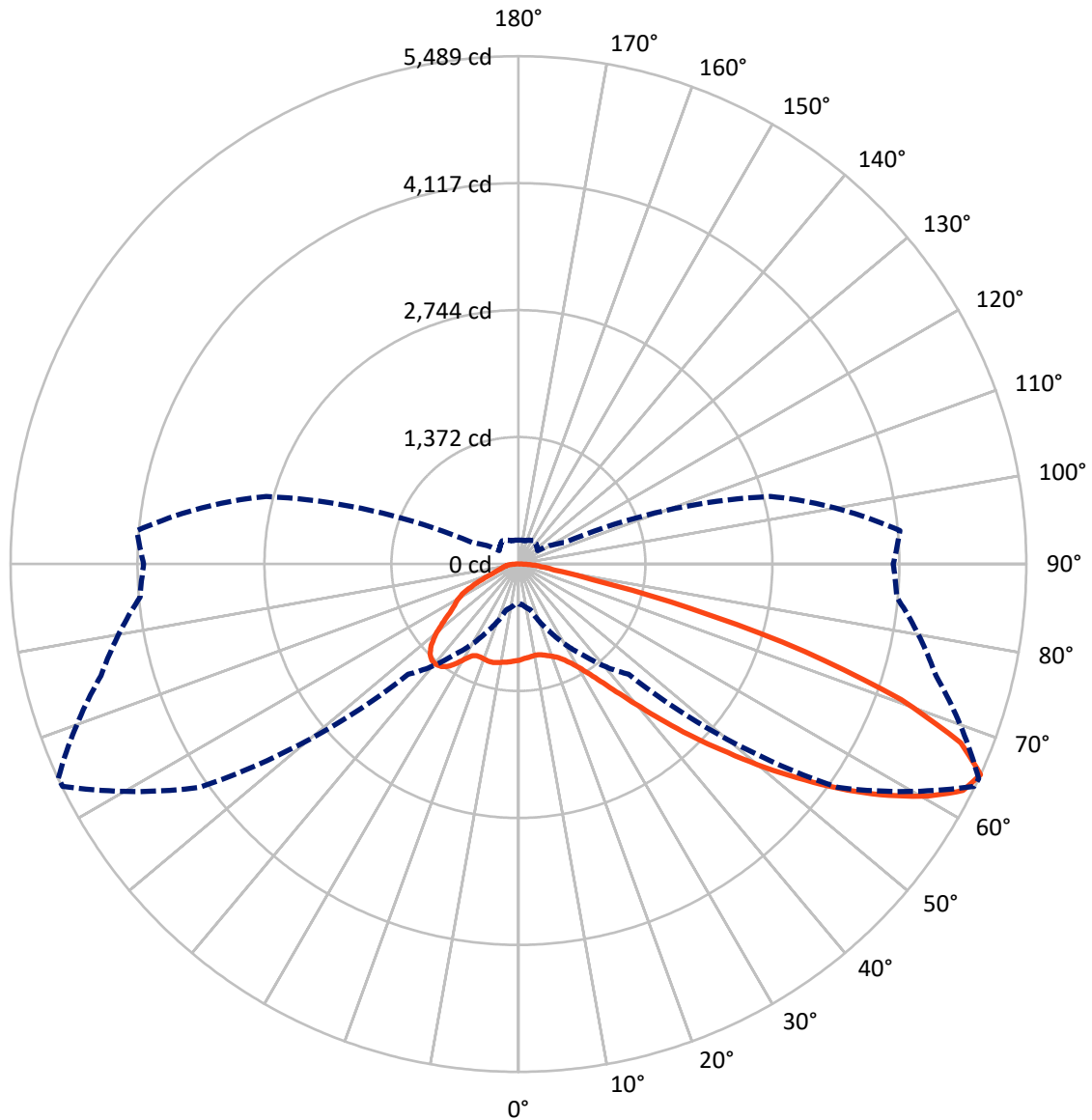
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2383.2	0.0	2383.2
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	5859.8	0.0	5859.8
	% Fixture	71.1	0.0	71.1
Total	Lumens	8243.0	0.0	8243.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	1.2
10°-20°	296.3	3.6
20°-30°	526.3	6.4
30°-40°	890.3	10.8
40°-50°	1549.8	18.8
50°-60°	2002.9	24.3
60°-70°	1752.6	21.3
70°-80°	953.3	11.6
80°-90°	172.2	2.1
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°	8243.0	100.0
0°-180°	8243.0	100.0



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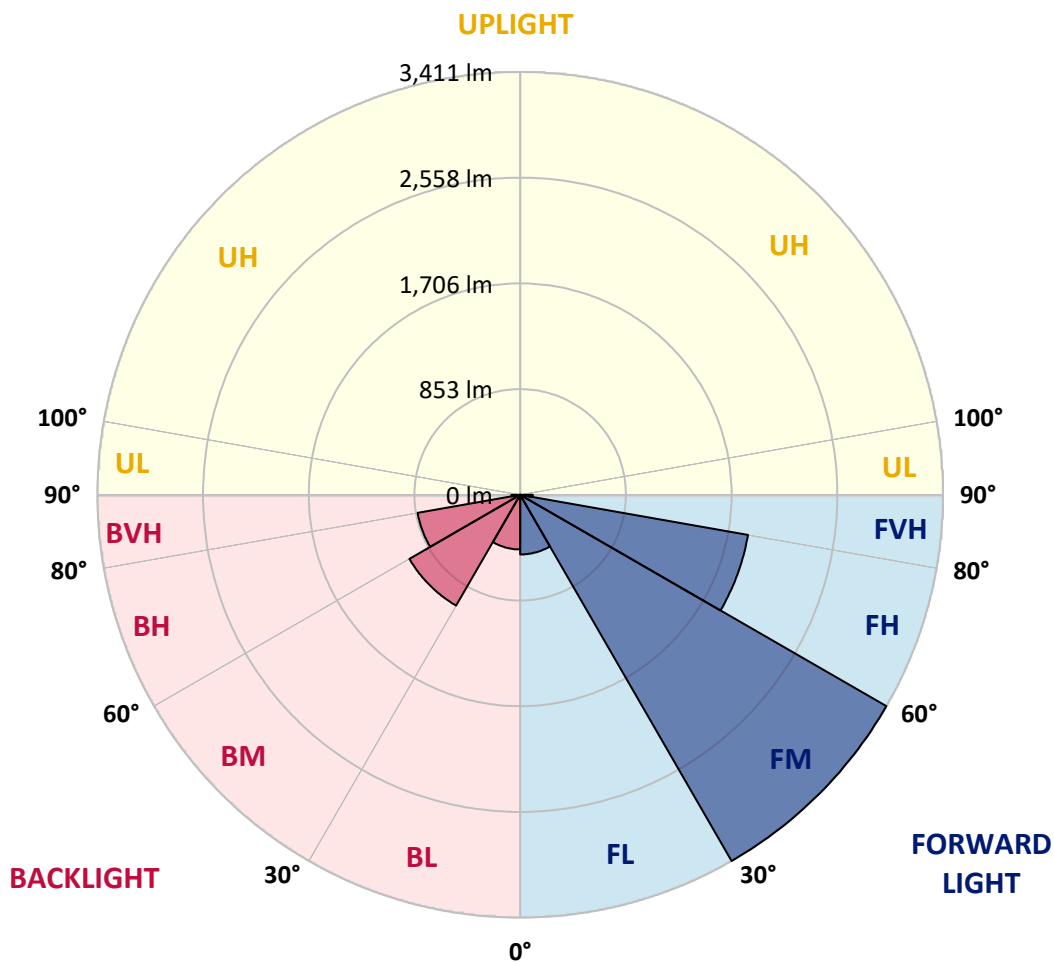
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	481.0	5.8			
FM	(30°-60°)	3411.2	41.4			
FH	(60°-80°)	1866.3	22.6			G2/5000
FVH	(80°-90°)	101.4	1.2			G2/225
BL	(0°-30°)	440.8	5.3	B1/500		
BM	(30°-60°)	1031.9	12.5	B2/2500		
BH	(60°-80°)	839.6	10.2	B2/1000		G2/1000
BVH	(80°-90°)	70.9	0.9			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°	64°	65°	75°	85°
0°	1041.6	1041.6	1041.6	1041.6	1041.6	1041.6	1041.6	1041.6	1041.6	1041.6	1041.6
2.5°	1023.1	1022.1	1019.9	1022.1	1023.1	1025.3	1024.2	1026.4	1025.3	1028.6	1034.0
5°	997.1	994.9	993.8	999.3	1002.5	1007.9	1010.1	1017.7	1016.6	1022.1	1030.7
7.5°	967.8	967.8	966.7	973.2	977.6	987.3	994.9	1007.9	1009.0	1018.8	1028.6
10°	945.0	946.1	945.0	950.4	957.0	968.9	981.9	1000.4	1001.4	1015.5	1025.3
12.5°	936.3	936.3	936.3	943.9	952.6	968.9	984.1	1003.6	1005.8	1021.0	1029.6
15°	948.3	949.4	947.2	954.8	964.5	984.1	998.2	1018.8	1021.0	1035.1	1040.5
17.5°	990.6	994.9	989.5	993.8	991.7	1006.9	1019.9	1040.5	1041.6	1053.5	1055.7
20°	1074.1	1078.5	1069.8	1064.4	1044.8	1043.8	1049.2	1065.5	1065.5	1073.0	1067.6
22.5°	1203.2	1207.6	1192.4	1171.8	1125.1	1102.3	1090.4	1098.0	1096.9	1100.2	1086.1
25°	1374.7	1373.6	1355.1	1317.2	1242.3	1187.0	1157.7	1145.7	1145.7	1139.2	1121.9
27.5°	1587.3	1571.1	1538.5	1492.9	1388.8	1311.7	1248.8	1218.4	1213.0	1193.5	1160.9
30°	1814.1	1802.2	1755.5	1689.3	1568.9	1470.2	1366.0	1305.2	1302.0	1259.7	1210.8
32.5°	2081.0	2061.5	2009.4	1930.2	1785.9	1647.0	1516.8	1424.6	1419.2	1351.9	1284.6
35°	2423.8	2407.6	2306.7	2227.5	2041.9	1859.7	1705.6	1583.0	1578.6	1496.2	1410.5
37.5°	2835.1	2792.7	2695.1	2546.5	2351.2	2135.2	1939.9	1785.9	1780.5	1689.3	1580.8
40°	3201.8	3163.8	3077.0	2940.3	2730.9	2491.1	2226.4	2039.8	2034.3	1923.7	1787.0
42.5°	3473.0	3447.0	3390.6	3311.4	3161.6	3016.2	2592.0	2346.8	2337.1	2193.8	2023.5
45°	3630.3	3609.7	3577.2	3596.7	3594.5	3567.4	3028.2	2712.5	2681.0	2495.5	2287.1
47.5°	3592.4	3573.9	3586.9	3738.8	3948.2	4105.6	3536.0	3086.8	3044.5	2802.5	2568.2
50°	3317.9	3325.5	3393.8	3684.6	4154.4	4503.8	4099.1	3513.2	3456.8	3111.7	2835.1
52.5°	2817.7	2836.1	3002.1	3409.0	4131.6	4762.0	4607.9	3953.7	3878.8	3413.4	3078.1
55°	2238.3	2285.0	2499.8	2927.3	3834.3	4780.4	4992.0	4396.3	4313.9	3696.5	3289.7
57.5°	1655.7	1725.1	1973.6	2366.3	3264.7	4488.6	5184.0	4819.5	4719.7	3977.5	3513.2
60°	1050.3	1092.6	1379.0	1842.3	2498.7	3774.7	5159.1	5179.7	5092.9	4257.5	3746.4
62.5°	670.5	691.1	835.4	1313.9	1746.8	2794.9	4886.8	5452.0	5393.4	4512.4	3967.8
65°	430.7	439.4	513.2	808.3	1189.1	1687.1	4208.6	5481.3	5488.9	4671.9	4104.5
67.5°	350.4	354.8	381.9	499.1	840.9	932.0	2931.6	5064.7	5156.9	4630.7	4057.8
70°	319.0	324.4	352.6	398.2	651.0	643.4	1419.2	4237.9	4388.8	4393.1	3850.6
72.5°	269.1	276.7	314.6	376.5	503.4	507.8	601.1	3018.4	3240.8	3926.5	3539.2
75°	224.6	228.9	261.5	332.0	426.4	405.8	422.1	1600.3	1921.5	3148.6	3208.3
77.5°	182.3	186.6	210.5	264.7	378.7	315.7	332.0	662.9	819.2	2137.4	2622.4
80°	130.2	134.5	161.7	206.1	286.4	284.3	246.3	365.6	397.1	1155.5	1703.4
82.5°	93.3	96.6	122.6	147.6	198.6	285.4	185.5	248.5	260.4	512.1	686.8
85°	62.9	62.9	84.6	97.6	128.0	180.1	149.7	168.2	175.8	243.0	185.5
87.5°	27.1	27.1	45.6	49.9	67.3	83.5	111.8	84.6	86.8	131.3	75.9
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°	1041.6	1041.6	1041.6	1041.6	1041.6	1041.6	1041.6	1041.6	1041.6	1041.6	1041.6
2.5°	1037.2	1038.3	1040.5	1047.0	1051.3	1057.9	1061.1	1065.5	1065.5	1063.3	1064.4
5°	1035.1	1038.3	1045.9	1057.9	1065.5	1077.4	1086.1	1092.6	1094.7	1092.6	1093.7
7.5°	1034.0	1039.4	1052.4	1069.8	1080.6	1095.8	1107.8	1115.4	1120.8	1118.6	1119.7
10°	1030.7	1039.4	1055.7	1077.4	1093.7	1108.9	1119.7	1123.0	1126.2	1124.0	1123.0
12.5°	1035.1	1044.8	1062.2	1088.2	1106.7	1118.6	1121.9	1116.4	1108.9	1104.5	1103.4
15°	1043.8	1053.5	1070.9	1098.0	1114.3	1118.6	1111.0	1093.7	1076.3	1066.5	1065.5
17.5°	1055.7	1062.2	1076.3	1100.2	1113.2	1107.8	1092.6	1072.0	1058.9	1051.3	1052.4
20°	1063.3	1063.3	1074.1	1092.6	1103.4	1099.1	1080.6	1057.9	1037.2	1027.5	1024.2
22.5°	1074.1	1068.7	1069.8	1086.1	1101.3	1094.7	1055.7	1015.5	986.2	975.4	974.3
25°	1103.4	1088.2	1078.5	1088.2	1124.0	1070.9	992.8	946.1	919.0	909.2	910.3
27.5°	1139.2	1118.6	1098.0	1114.3	1142.5	1016.6	912.5	859.3	843.0	835.4	838.7
30°	1175.0	1147.9	1120.8	1179.4	1129.5	932.0	809.4	757.3	743.2	737.8	742.1
32.5°	1241.2	1196.7	1164.2	1266.2	1089.3	835.4	697.6	649.9	636.9	630.4	628.2
35°	1351.9	1295.5	1262.9	1342.1	1032.9	728.0	595.7	562.0	547.9	533.8	531.6
37.5°	1511.4	1443.0	1413.7	1385.5	953.7	621.7	517.5	494.8	474.1	452.4	451.4
40°	1702.3	1613.4	1591.7	1405.1	844.1	521.9	463.3	441.6	415.5	394.9	396.0
42.5°	1922.6	1808.7	1762.0	1399.6	708.5	468.7	424.2	400.4	377.6	359.1	358.0
45°	2158.0	2028.9	1921.5	1361.7	574.0	431.8	400.4	372.1	349.4	328.7	326.6
47.5°	2418.4	2274.1	2069.1	1287.9	474.1	405.8	386.3	346.1	325.5	312.5	312.5
50°	2681.0	2508.5	2204.7	1176.1	415.5	386.3	365.6	332.0	315.7	304.9	304.9
52.5°	2905.6	2752.6	2316.4	1042.7	378.7	370.0	351.5	325.5	308.1	298.4	297.3
55°	3123.7	2979.4	2416.3	910.3	348.3	348.3	348.3	320.1	300.5	291.9	290.8
57.5°	3340.7	3218.1	2520.4	823.5	321.2	329.8	341.8	313.6	294.0	286.4	285.4
60°	3585.9	3504.5	2640.8	762.7	297.3	310.3	333.1	306.0	283.2	276.7	275.6
62.5°	3846.3	3846.3	2750.4	677.0	275.6	294.0	320.1	296.2	273.4	268.0	266.9
65°	4050.2	4138.1	2821.0	549.0	253.9	277.8	304.9	283.2	260.4	259.3	257.1
67.5°	4074.1	4211.9	2776.5	414.5	234.4	260.4	289.7	269.1	247.4	247.4	244.1
70°	3902.7	4042.6	2637.6	310.3	220.3	243.0	270.2	251.7	231.1	233.3	227.8
72.5°	3616.2	3651.0	2292.6	245.2	204.0	224.6	246.3	232.2	213.7	213.7	206.1
75°	3238.7	3045.5	1665.4	205.1	184.4	202.9	222.4	210.5	194.2	188.8	184.4
77.5°	2577.9	2206.9	967.8	176.9	168.2	182.3	195.3	186.6	172.5	160.6	160.6
80°	1571.1	1293.3	427.5	153.0	148.6	159.5	168.2	158.4	146.5	134.5	131.3
82.5°	597.8	499.1	207.2	131.3	130.2	136.7	143.2	133.5	124.8	119.3	103.1
85°	163.8	150.8	142.1	109.6	107.4	106.3	113.9	109.6	97.6	80.3	71.6
87.5°	61.8	70.5	77.0	67.3	71.6	66.2	75.9	69.4	61.8	40.1	35.8
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)