

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: P397910

Luminaire Tested: **ARCH-S-PA1-60-730-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397910
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-PA1-60-730-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8226 lumens
Efficiency: N/A
Efficacy: 128.5 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 - G2

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

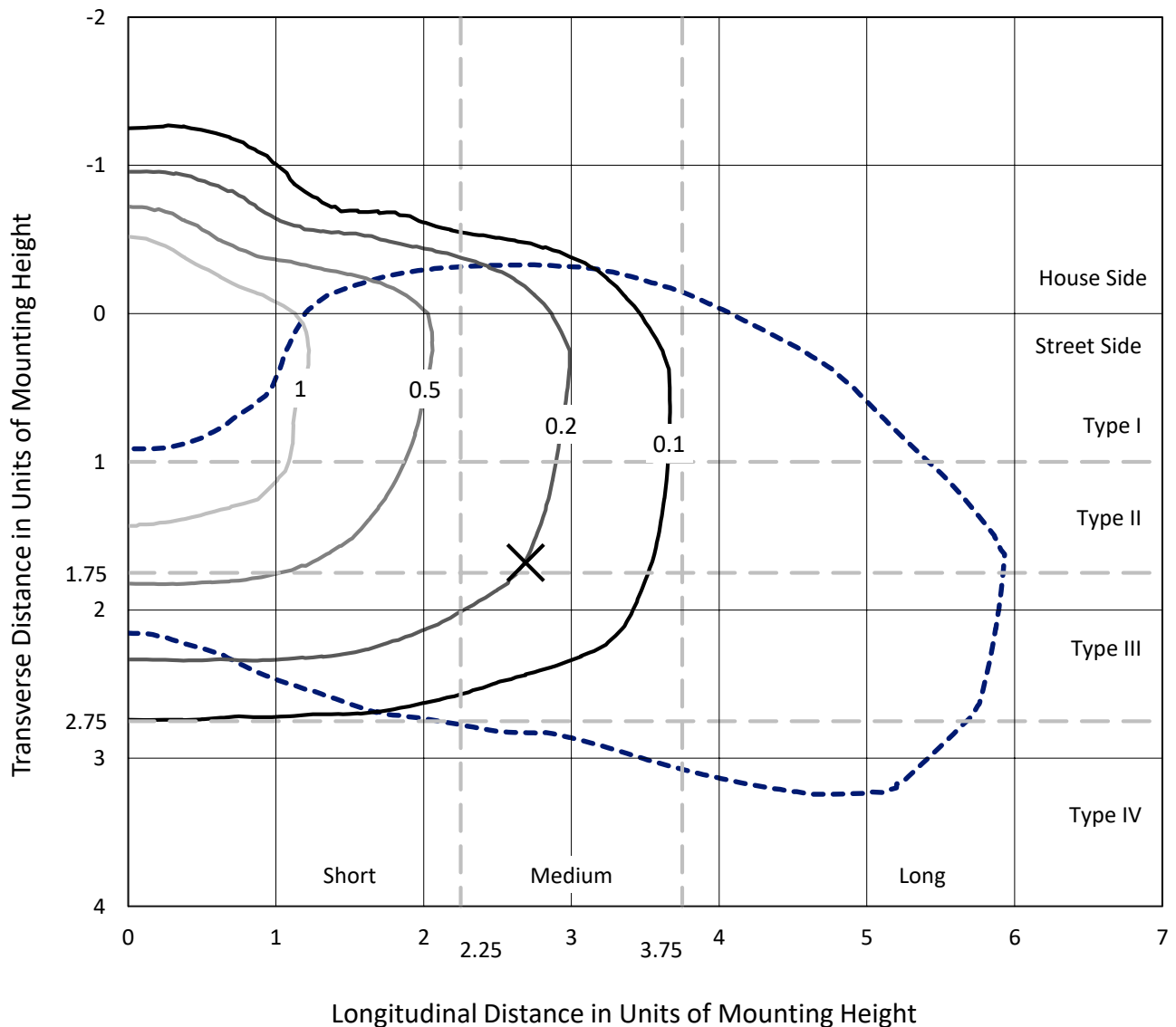


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

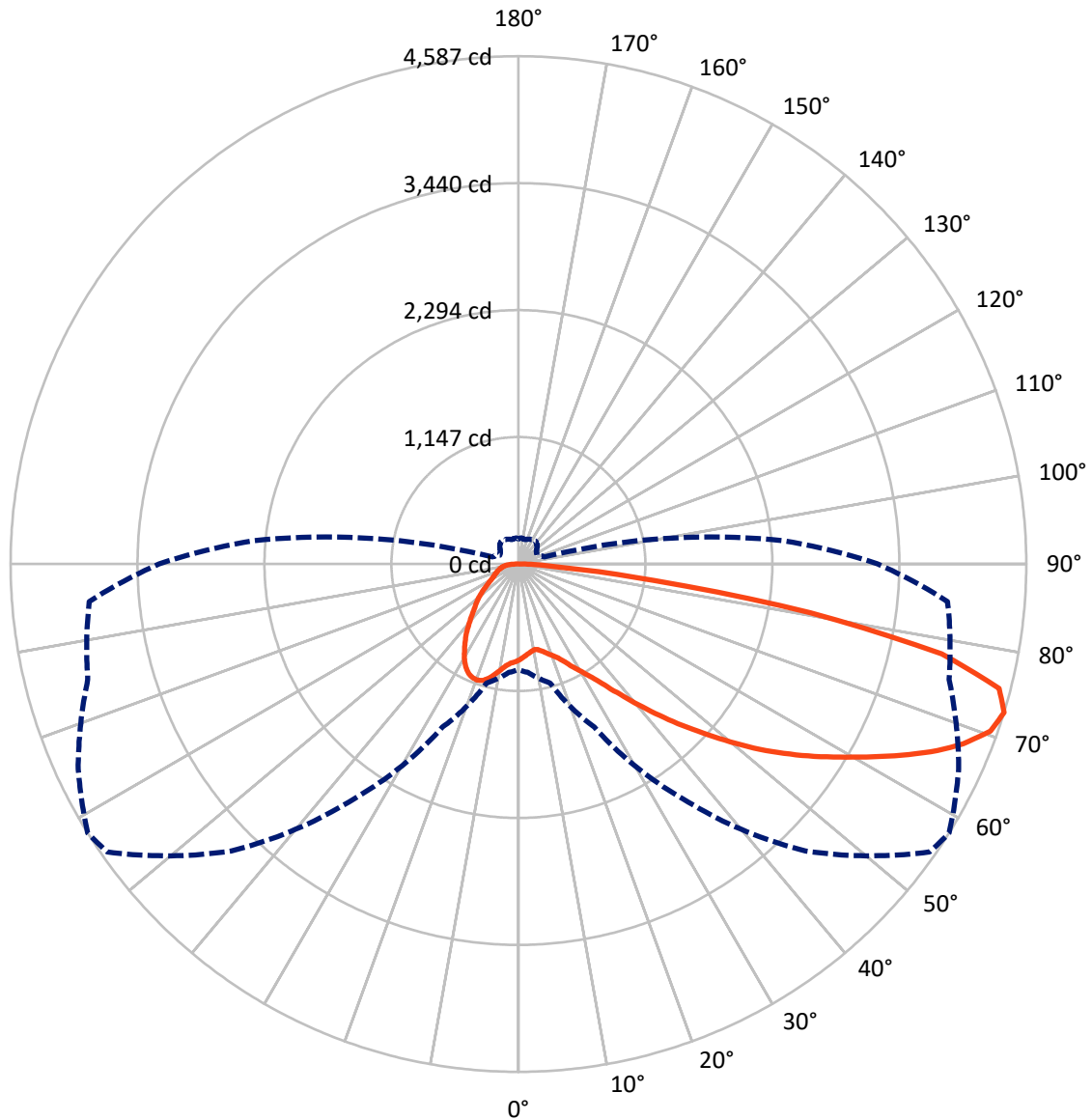


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1865.6	0.0	1865.6
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	6360.4	0.0	6360.4
	% Fixture	77.3	0.0	77.3
Total	Lumens	8226.0	0.0	8226.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	1.0
10°-20°	265.4	3.2
20°-30°	475.5	5.8
30°-40°	715.3	8.7
40°-50°	1158.3	14.1
50°-60°	1743.6	21.2
60°-70°	2052.0	24.9
70°-80°	1455.1	17.7
80°-90°	277.3	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°	8226.0	100.0
0°-180°	8226.0	100.0

Coefficient of Utilization



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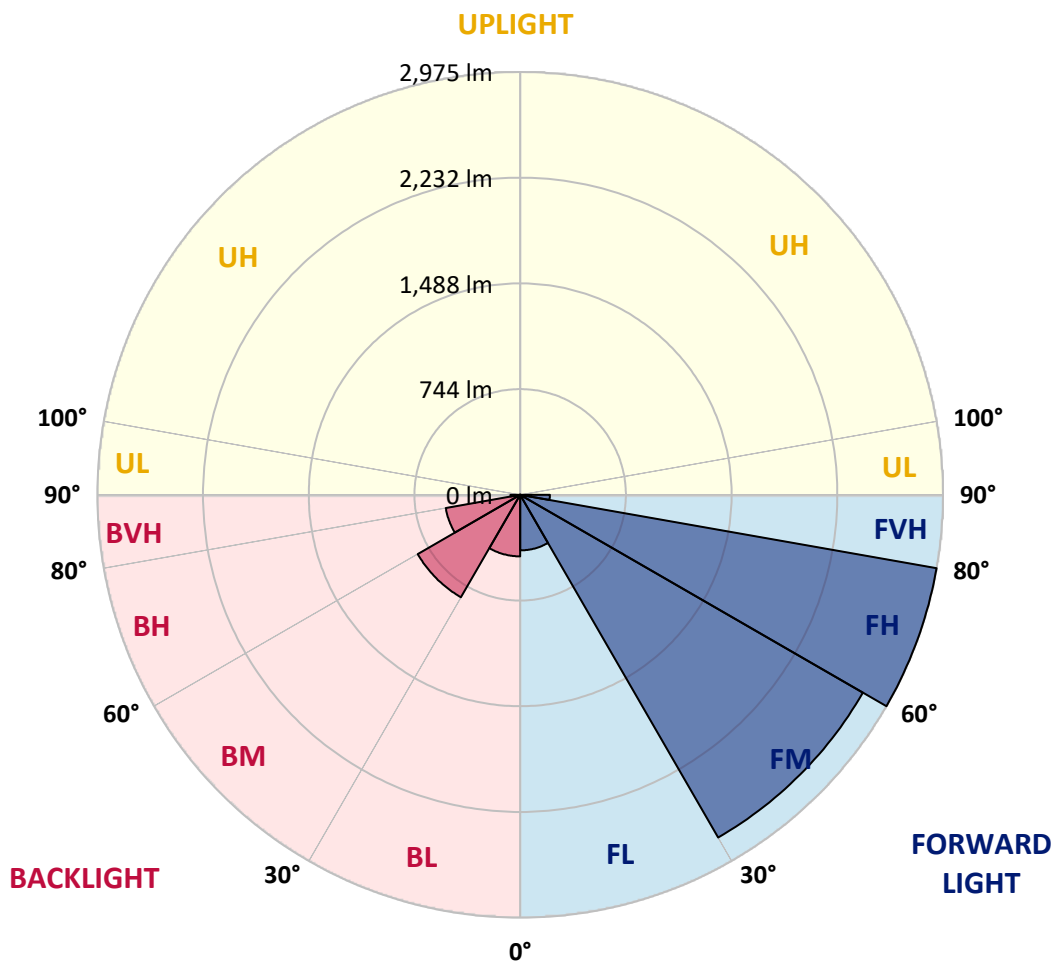
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	391.2	4.8			
FM	(30°-60°)	2784.7	33.9			
FH	(60°-80°)	2975.4	36.2			G2/5000
FVH	(80°-90°)	209.1	2.5			G2/225
BL	(0°-30°)	433.3	5.3	B1/500		
BM	(30°-60°)	832.4	10.1	B1/1000		
BH	(60°-80°)	531.7	6.5	B2/1000		G2/1000
BVH	(80°-90°)	68.1	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-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7
2.5°	835.1	830.7	831.8	831.8	836.2	838.3	839.4	842.7	844.9	850.3	857.9
5°	796.0	792.7	793.8	794.9	802.5	810.1	816.6	821.0	827.5	836.2	847.0
7.5°	767.8	765.6	766.7	768.8	775.4	784.1	794.9	801.4	811.2	827.5	845.9
10°	747.1	747.1	748.2	752.6	759.1	769.9	778.6	786.2	805.8	835.1	863.3
12.5°	730.8	730.8	734.1	742.8	753.6	764.5	785.1	793.8	819.9	860.1	893.7
15°	729.8	730.8	731.9	739.5	751.5	775.4	805.8	818.8	850.3	898.1	937.2
17.5°	747.1	748.2	743.9	746.0	760.2	793.8	834.0	849.2	889.4	941.5	981.7
20°	800.3	800.3	787.3	775.4	785.1	822.1	867.7	882.9	927.4	984.9	1025.1
22.5°	908.9	914.4	884.0	857.9	842.7	863.3	904.6	920.9	970.8	1032.7	1072.9
25°	1040.3	1045.8	1004.5	967.6	939.3	936.1	963.2	980.6	1021.9	1085.9	1119.6
27.5°	1167.4	1157.6	1119.6	1084.9	1049.0	1019.7	1040.3	1055.5	1103.3	1152.2	1172.8
30°	1267.3	1259.7	1222.8	1197.8	1164.1	1126.1	1114.2	1130.5	1169.6	1215.2	1226.0
32.5°	1378.1	1372.6	1335.7	1303.1	1274.9	1239.1	1213.0	1220.6	1242.3	1274.9	1281.4
35°	1519.2	1531.2	1492.1	1425.8	1394.4	1359.6	1341.1	1343.3	1359.6	1380.2	1369.4
37.5°	1668.0	1682.1	1684.3	1580.0	1537.7	1506.2	1486.7	1494.3	1513.8	1527.9	1494.3
40°	1943.8	1929.7	1873.3	1796.1	1731.0	1700.6	1673.4	1672.4	1686.5	1711.4	1650.6
42.5°	2309.8	2296.8	2182.7	2082.8	1979.7	1944.9	1891.7	1868.9	1875.4	1906.9	1822.2
45°	2660.6	2655.1	2563.9	2447.7	2323.9	2256.6	2135.0	2079.6	2074.2	2099.1	1998.1
47.5°	2972.2	2948.3	2882.1	2792.0	2778.9	2603.0	2379.3	2304.4	2278.3	2292.4	2179.5
50°	3305.6	3224.2	3132.9	3077.6	3172.0	3008.1	2625.8	2547.6	2483.6	2493.3	2376.0
52.5°	3482.6	3345.8	3286.1	3302.4	3429.4	3366.4	2894.0	2798.5	2695.3	2709.4	2571.5
55°	3330.6	3329.5	3355.6	3456.6	3633.6	3560.8	3149.2	3041.7	2928.8	2932.0	2796.3
57.5°	3122.1	3164.4	3299.1	3521.7	3886.6	3765.0	3400.1	3286.1	3182.9	3166.6	3051.5
60°	2932.0	2978.7	3174.2	3510.9	3974.5	3951.7	3639.0	3539.1	3455.5	3407.7	3319.7
62.5°	2643.2	2677.9	2954.8	3441.4	3900.7	4086.4	3881.2	3812.7	3749.8	3650.9	3608.6
65°	2303.3	2315.2	2607.3	3212.2	3808.4	4138.5	4122.2	4091.8	4031.0	3885.5	3894.2
67.5°	1935.1	1959.0	2215.3	2846.3	3606.4	4114.6	4309.0	4334.0	4262.3	4044.1	4076.6
70°	1543.1	1572.4	1766.8	2340.2	3263.3	4011.5	4481.7	4521.9	4384.0	4096.2	4110.3
72.5°	954.5	982.8	1113.1	1625.7	2586.7	3665.1	4534.9	4587.0	4387.2	4026.7	3890.9
75°	330.1	333.4	435.5	779.7	1535.5	2767.0	4361.1	4483.9	4249.3	3773.7	3386.0
77.5°	150.9	156.4	193.3	321.4	680.9	1493.2	3601.0	3908.3	3830.1	3378.4	2606.3
80°	104.3	106.4	133.6	192.2	393.1	525.6	2272.9	2673.6	2810.4	2616.0	1670.2
82.5°	78.2	80.4	103.2	130.3	283.4	255.2	865.5	1242.3	1544.2	1516.0	698.3
85°	74.9	73.8	80.4	86.9	189.0	152.0	280.2	384.4	602.7	515.8	175.9
87.5°	32.6	35.8	82.5	48.9	98.8	70.6	121.6	142.3	183.5	159.6	63.0
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°	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7
2.5°	861.2	863.3	869.8	879.6	885.0	895.9	903.5	907.8	911.1	912.2	912.2
5°	853.6	857.9	872.0	888.3	903.5	926.3	946.9	958.9	967.6	970.8	971.9
7.5°	855.7	866.6	887.2	911.1	930.7	960.0	984.9	1008.8	1028.4	1036.0	1036.0
10°	876.4	891.6	919.8	951.3	976.3	1006.7	1032.7	1053.4	1076.2	1089.2	1091.4
12.5°	907.8	926.3	963.2	998.0	1026.2	1050.1	1074.0	1089.2	1100.1	1109.8	1112.0
15°	952.4	975.2	1012.1	1047.9	1072.9	1088.1	1094.6	1094.6	1093.5	1094.6	1096.8
17.5°	996.9	1018.6	1055.5	1091.4	1103.3	1094.6	1087.0	1084.9	1083.8	1081.6	1082.7
20°	1040.3	1061.0	1092.5	1119.6	1109.8	1079.4	1069.7	1068.6	1065.3	1063.1	1061.0
22.5°	1083.8	1099.0	1125.0	1134.8	1095.7	1052.3	1040.3	1033.8	1029.5	1024.0	1018.6
25°	1133.7	1138.1	1157.6	1142.4	1061.0	1002.3	984.9	975.2	970.8	965.4	961.1
27.5°	1180.4	1180.4	1183.7	1130.5	1009.9	936.1	910.0	892.6	891.6	890.5	889.4
30°	1222.8	1217.3	1206.5	1094.6	943.7	854.6	815.5	798.2	804.7	810.1	811.2
32.5°	1272.7	1261.9	1231.5	1045.8	864.4	763.4	715.6	708.0	715.6	722.2	717.8
35°	1350.9	1331.4	1257.5	989.3	788.4	679.8	634.2	623.3	621.2	620.1	611.4
37.5°	1462.8	1429.1	1278.2	928.5	713.5	606.0	572.3	549.5	528.9	507.1	503.9
40°	1599.6	1542.0	1292.3	859.0	634.2	544.1	508.2	478.9	444.2	406.1	401.8
42.5°	1749.5	1663.7	1298.8	781.9	564.7	493.0	448.5	411.6	372.5	343.2	337.7
45°	1911.3	1795.1	1293.4	708.0	508.2	449.6	399.6	359.4	328.0	307.3	303.0
47.5°	2068.7	1946.0	1278.2	649.4	464.8	412.7	361.6	324.7	300.8	278.0	272.6
50°	2270.7	2090.4	1259.7	603.8	417.0	375.7	337.7	298.6	271.5	260.6	258.5
52.5°	2494.4	2234.9	1238.0	546.2	370.3	346.4	322.5	287.8	279.1	258.5	255.2
55°	2736.6	2406.4	1233.6	473.5	329.0	325.8	307.3	297.5	299.7	258.5	253.0
57.5°	2991.8	2590.0	1243.4	400.7	295.4	307.3	313.8	306.2	303.0	263.9	253.0
60°	3257.8	2767.0	1214.1	333.4	269.3	292.1	321.4	301.9	278.0	261.7	254.1
62.5°	3516.3	2915.8	1087.0	285.6	249.8	287.8	317.1	285.6	258.5	258.5	255.2
65°	3704.2	2982.0	850.3	250.9	236.7	282.3	309.5	274.7	253.0	260.6	256.3
67.5°	3725.9	2913.6	571.2	223.7	225.9	272.6	292.1	265.0	247.6	267.1	260.6
70°	3592.3	2735.5	349.7	203.1	211.8	255.2	276.9	255.2	240.0	261.7	251.9
72.5°	3245.9	2403.2	246.5	185.7	196.6	238.9	262.8	246.5	229.1	236.7	227.0
75°	2662.7	1862.4	195.5	169.4	181.4	223.7	250.9	233.5	216.1	212.8	206.3
77.5°	1886.3	1193.5	157.5	156.4	165.1	205.2	234.6	218.3	200.9	194.4	190.0
80°	1084.9	585.3	135.7	141.2	149.9	186.8	215.0	200.9	184.6	174.8	168.3
82.5°	414.8	204.2	119.5	122.7	132.5	167.2	195.5	183.5	167.2	175.9	147.7
85°	134.7	111.9	97.7	101.0	110.8	139.0	172.7	162.9	144.4	128.1	118.4
87.5°	59.7	60.8	52.1	57.6	69.5	92.3	126.0	119.5	105.3	88.0	84.7
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)