

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: P397573

Luminaire Tested: **ARCH-S-PA1-100-760-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-100-760-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11849 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G2

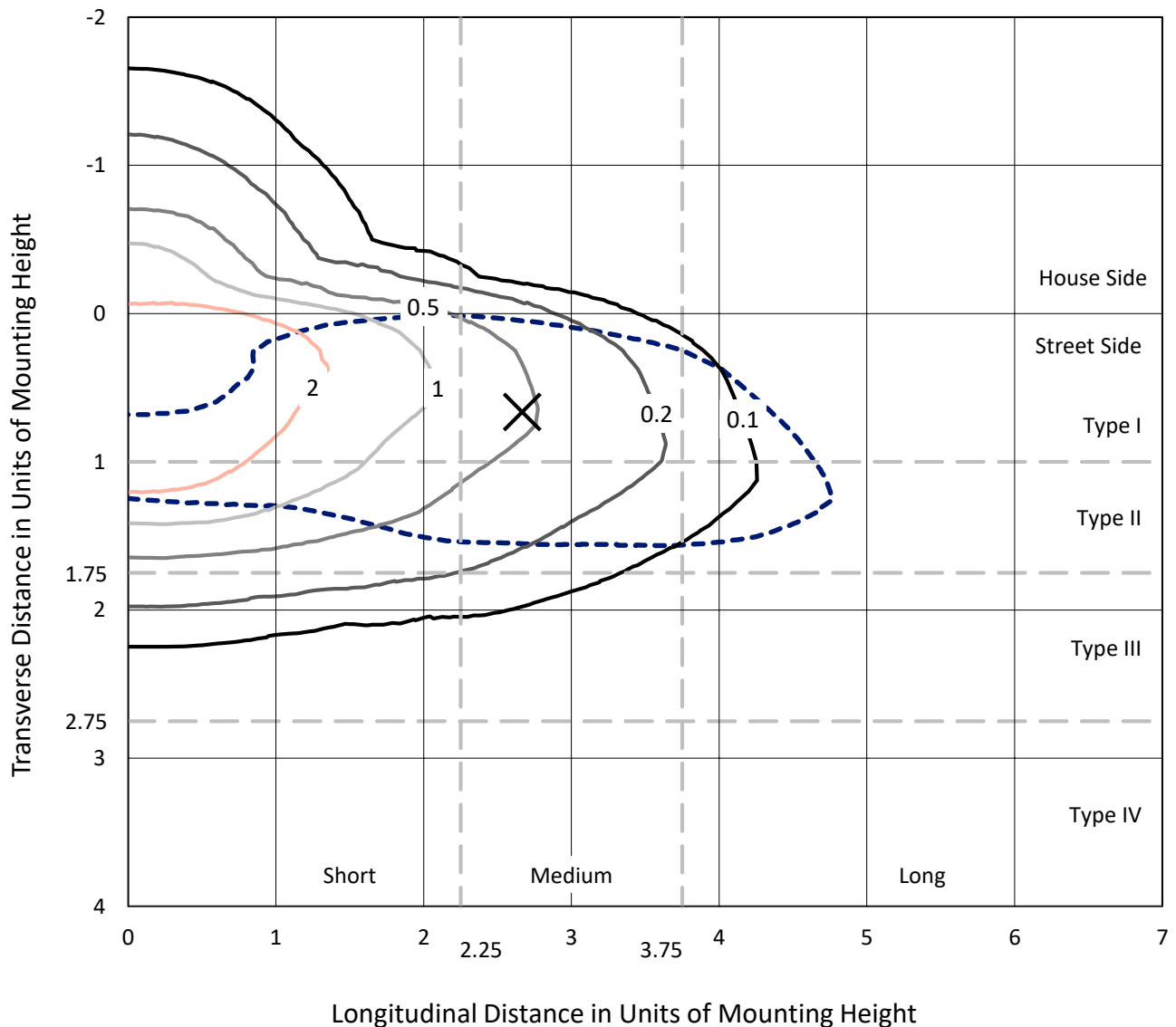
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

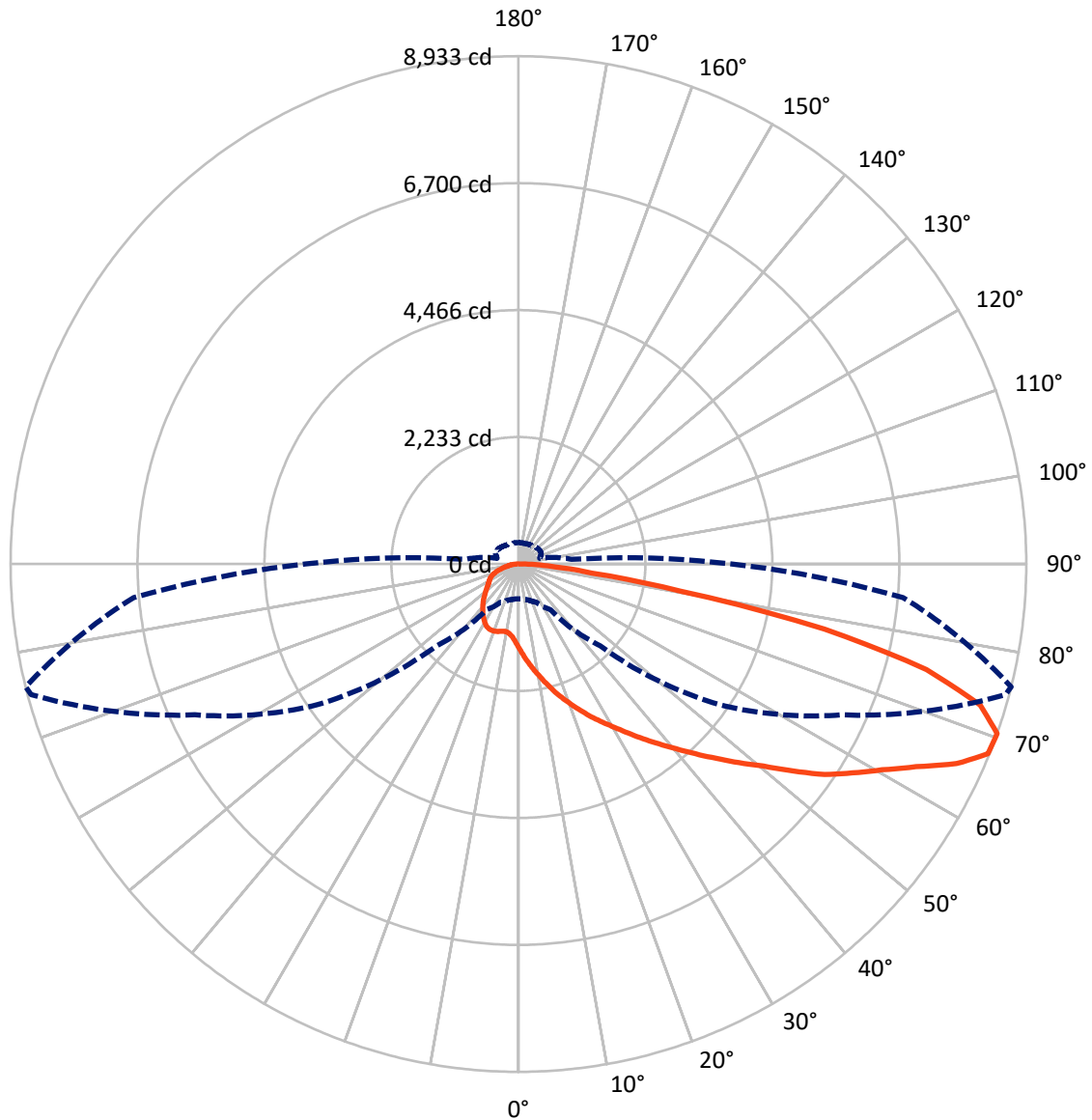
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1934.5	0.0	1934.5
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	9914.5	0.0	9914.5
	% Fixture	83.7	0.0	83.7
Total	Lumens	11849.0	0.0	11849.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.0	1.3
10°-20°	523.3	4.4
20°-30°	936.2	7.9
30°-40°	1514.4	12.8
40°-50°	2190.9	18.5
50°-60°	2507.6	21.2
60°-70°	2306.7	19.5
70°-80°	1426.4	12.0
80°-90°	289.7	2.4
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°	11849.0	100.0
0°-180°	11849.0	100.0

Coefficient of Utilization



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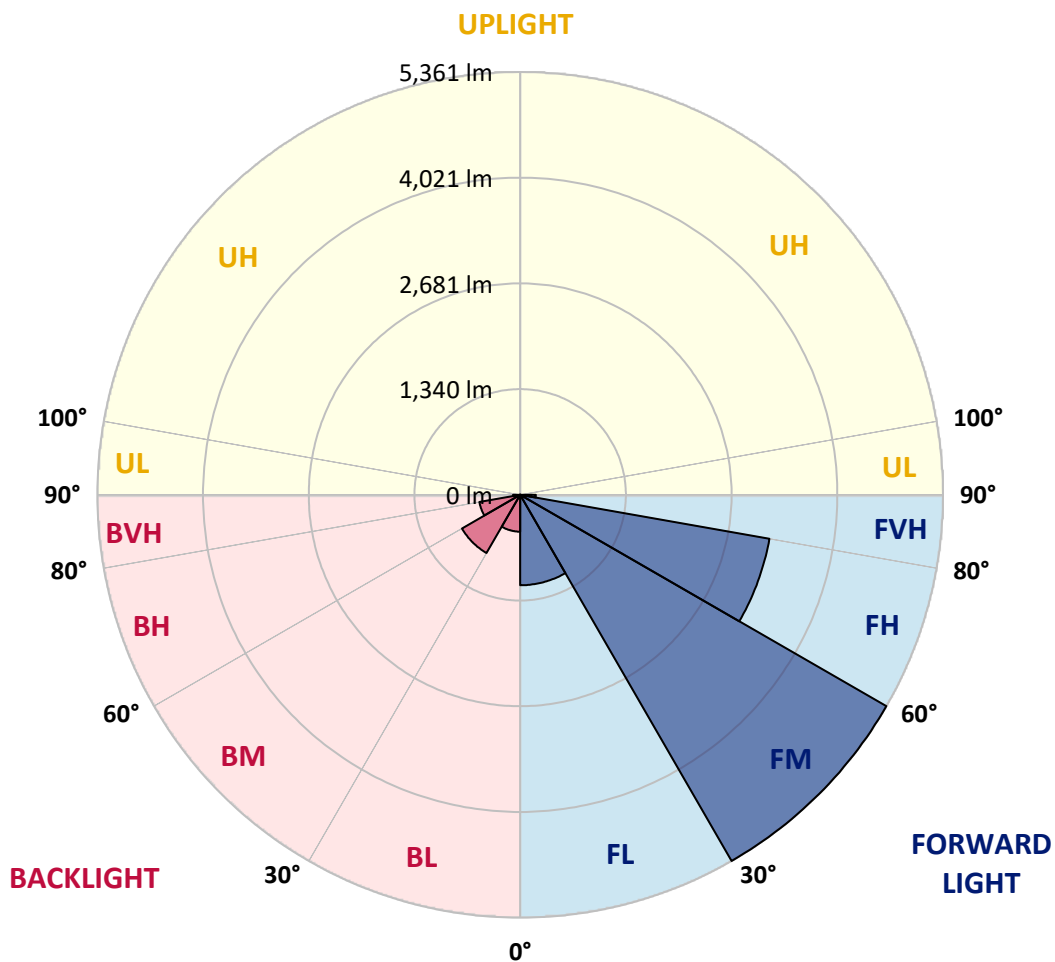
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1146.2	9.7			
FM	(30°-60°)	5361.1	45.2			
FH	(60°-80°)	3208.4	27.1			G2/5000
FVH	(80°-90°)	198.8	1.7			G2/225
BL	(0°-30°)	467.2	3.9	B1/500		
BM	(30°-60°)	851.7	7.2	B1/1000		
BH	(60°-80°)	524.7	4.4	B2/1000		G2/1000
BVH	(80°-90°)	90.8	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1481.8	1481.8	1481.8	1481.8	1481.8	1481.8	1481.8	1481.8	1481.8	1481.8	1481.8
2.5°	1888.4	1874.4	1872.9	1851.0	1830.8	1776.3	1737.3	1668.7	1600.2	1598.6	1530.1
5°	2182.9	2168.9	2161.1	2134.6	2100.3	2028.7	1958.6	1852.6	1735.7	1728.0	1598.6
7.5°	2382.4	2369.9	2354.3	2343.4	2310.7	2246.8	2161.1	2034.9	1874.4	1858.8	1678.1
10°	2516.4	2508.6	2505.5	2497.7	2477.4	2426.0	2343.4	2209.4	2013.1	1995.9	1762.2
12.5°	2574.0	2570.9	2584.9	2606.7	2614.5	2594.3	2514.8	2388.6	2165.8	2147.1	1863.5
15°	2507.0	2510.1	2546.0	2620.8	2700.2	2743.8	2697.1	2574.0	2338.7	2312.2	1981.9
17.5°	2475.8	2480.5	2505.5	2577.1	2689.3	2824.9	2846.7	2750.1	2505.5	2468.1	2106.6
20°	2530.4	2536.6	2555.3	2611.4	2689.3	2834.2	2948.0	2918.4	2669.1	2630.1	2226.5
22.5°	2669.1	2676.8	2675.3	2711.1	2764.1	2863.8	3004.0	3077.3	2840.4	2796.8	2351.2
25°	2965.1	2958.9	2905.9	2888.7	2902.8	2966.7	3078.8	3230.0	3019.6	2976.0	2482.1
27.5°	3367.1	3359.3	3262.7	3175.4	3097.5	3125.6	3184.8	3353.1	3201.9	3152.1	2606.7
30°	3797.1	3787.8	3675.6	3533.8	3360.9	3320.3	3312.6	3460.6	3385.8	3332.8	2739.2
32.5°	4216.3	4208.5	4088.5	3923.3	3684.9	3563.4	3488.6	3580.6	3594.6	3543.2	2884.1
35°	4598.0	4598.0	4495.2	4298.8	4029.3	3845.4	3722.3	3728.6	3834.5	3775.3	3049.2
37.5°	4937.7	4936.1	4823.9	4630.7	4372.1	4161.7	4009.0	3907.8	4063.6	4012.1	3222.2
40°	5207.2	5196.3	5113.7	4945.5	4685.3	4476.5	4322.2	4118.1	4319.1	4272.4	3406.0
42.5°	5403.5	5397.3	5341.2	5194.8	4947.0	4750.7	4644.7	4383.0	4608.9	4562.2	3621.1
45°	5479.9	5492.4	5492.4	5353.7	5157.4	4978.2	4931.4	4674.3	4922.1	4875.3	3851.7
47.5°	5356.8	5389.5	5456.5	5465.9	5292.9	5171.4	5187.0	4967.3	5244.6	5219.7	4104.1
50°	4971.9	5032.7	5179.2	5444.1	5347.5	5319.4	5405.1	5266.4	5590.5	5582.7	4411.0
52.5°	3979.4	4127.4	4584.0	5059.2	5310.1	5388.0	5621.7	5603.0	6036.1	6048.6	4811.5
55°	3052.3	3108.4	3636.6	4445.3	5081.0	5366.2	5766.6	5931.7	6519.2	6534.7	5179.2
57.5°	2468.1	2505.5	2793.7	3636.6	4559.0	5247.7	5880.3	6123.4	6890.0	6930.5	5506.4
60°	1955.4	2010.0	2203.2	2782.8	3828.3	4962.6	5959.8	6336.9	7288.9	7349.6	5897.5
62.5°	1453.7	1480.2	1662.5	2061.4	3030.5	4450.0	5917.7	6569.0	7778.1	7851.3	6368.0
65°	1034.6	1058.0	1187.3	1466.2	2240.6	3756.6	5673.1	6742.0	8392.0	8466.8	6841.7
67.5°	774.4	783.7	857.0	1025.2	1509.8	2918.4	5177.6	6712.4	8840.7	8907.7	7031.8
70°	612.3	615.5	651.3	741.7	981.6	2031.8	4309.7	6277.6	8873.5	8932.7	6791.8
72.5°	507.9	506.4	526.6	570.3	684.0	1285.4	3192.6	5470.5	8452.8	8493.3	6121.8
75°	419.1	422.2	436.3	461.2	522.0	847.6	2069.2	4364.3	7457.1	7413.5	5137.1
77.5°	352.1	350.6	356.8	378.6	422.2	609.2	1212.2	3153.6	5526.6	5504.8	3371.8
80°	283.6	286.7	296.0	314.7	355.3	464.3	716.7	1967.9	2965.1	2885.6	1611.1
82.5°	190.1	219.7	238.4	260.2	306.9	342.8	455.0	1000.3	1326.0	1305.7	730.8
85°	90.4	120.0	177.6	202.6	249.3	215.0	308.5	476.8	663.8	656.0	263.3
87.5°	18.7	18.7	95.0	113.7	154.3	91.9	171.4	207.2	321.0	300.7	107.5
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°	1481.8	1481.8	1481.8	1481.8	1481.8	1481.8	1481.8	1481.8	1481.8	1481.8	1481.8
2.5°	1489.6	1447.5	1363.4	1296.4	1227.8	1188.8	1140.5	1117.2	1112.5	1100.0	1109.4
5°	1516.0	1433.5	1274.5	1170.1	1100.0	1065.8	1048.6	1042.4	1040.8	1037.7	1037.7
7.5°	1551.9	1425.7	1218.4	1112.5	1067.3	1056.4	1061.1	1070.4	1072.0	1075.1	1073.5
10°	1595.5	1427.2	1187.3	1098.5	1076.7	1078.2	1093.8	1106.3	1112.5	1117.2	1115.6
12.5°	1656.3	1445.9	1182.6	1107.8	1098.5	1104.7	1120.3	1132.8	1139.0	1140.5	1140.5
15°	1735.7	1484.9	1193.5	1128.1	1120.3	1125.0	1134.3	1139.0	1140.5	1139.0	1139.0
17.5°	1823.0	1531.6	1209.1	1140.5	1128.1	1123.4	1120.3	1115.6	1106.3	1100.0	1100.0
20°	1907.1	1573.7	1216.9	1139.0	1117.2	1098.5	1079.8	1056.4	1040.8	1028.4	1028.4
22.5°	1991.3	1612.6	1216.9	1121.8	1087.6	1051.7	1012.8	975.4	952.0	936.4	936.4
25°	2080.1	1650.0	1207.5	1092.2	1040.8	989.4	936.4	889.7	866.3	850.7	847.6
27.5°	2154.9	1671.9	1182.6	1050.2	983.2	917.7	857.0	808.7	791.5	777.5	777.5
30°	2234.3	1685.9	1135.9	995.6	917.7	842.9	780.6	741.7	723.0	702.7	701.2
32.5°	2323.2	1695.2	1082.9	938.0	850.7	771.3	718.3	687.1	646.6	624.8	621.7
35°	2426.0	1707.7	1026.8	872.5	783.7	712.1	680.9	629.5	590.5	571.8	570.3
37.5°	2535.1	1717.0	966.0	814.9	723.0	673.1	641.9	581.2	546.9	518.9	515.7
40°	2650.4	1717.0	903.7	758.8	674.7	656.0	596.8	542.2	484.6	470.6	467.4
42.5°	2778.1	1713.9	841.4	704.3	629.5	617.0	570.3	512.6	483.0	470.6	467.4
45°	2913.7	1703.0	782.2	641.9	582.7	557.8	522.0	506.4	493.9	493.9	493.9
47.5°	3067.9	1693.7	715.2	585.9	548.5	520.4	493.9	484.6	483.0	487.7	492.4
50°	3265.8	1690.6	659.1	545.3	522.0	489.2	486.1	478.3	479.9	479.9	479.9
52.5°	3505.8	1662.5	606.1	515.7	495.5	456.5	465.9	473.7	476.8	475.2	473.7
55°	3681.8	1612.6	560.9	495.5	476.8	444.1	456.5	469.0	472.1	467.4	467.4
57.5°	3840.8	1542.5	525.1	479.9	464.3	436.3	450.3	462.8	459.6	458.1	456.5
60°	4023.1	1475.5	497.0	472.1	451.9	433.2	445.6	453.4	448.7	445.6	444.1
62.5°	4220.9	1410.1	476.8	472.1	442.5	431.6	440.9	444.1	434.7	431.6	431.6
65°	4312.9	1307.3	455.0	472.1	437.8	428.5	431.6	428.5	419.1	419.1	417.6
67.5°	4161.7	1137.4	426.9	465.9	444.1	423.8	417.6	412.9	402.0	402.0	398.9
70°	3744.2	934.9	386.4	445.6	445.6	422.2	398.9	388.0	375.5	380.2	373.9
72.5°	3198.8	741.7	336.6	411.3	436.3	420.7	378.6	361.5	350.6	355.3	345.9
75°	2591.1	574.9	277.3	356.8	412.9	412.9	358.4	335.0	322.5	322.5	311.6
77.5°	1651.6	425.4	225.9	296.0	370.8	402.0	341.2	305.4	286.7	282.0	274.2
80°	818.0	299.2	185.4	235.3	316.3	377.1	328.8	271.1	244.6	235.3	221.3
82.5°	434.7	207.2	148.0	183.9	252.4	339.7	313.2	233.7	201.0	187.0	171.4
85°	194.8	127.8	118.4	140.2	191.6	278.9	282.0	191.6	154.3	183.9	135.6
87.5°	71.7	57.7	57.7	71.7	110.6	116.9	199.4	123.1	98.2	67.0	53.0
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)