

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: P573464

Luminaire Tested: **ARCH-S-PA2-80-730-U-T2R**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573464  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-80-730-U-T2R  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 820mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10815 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

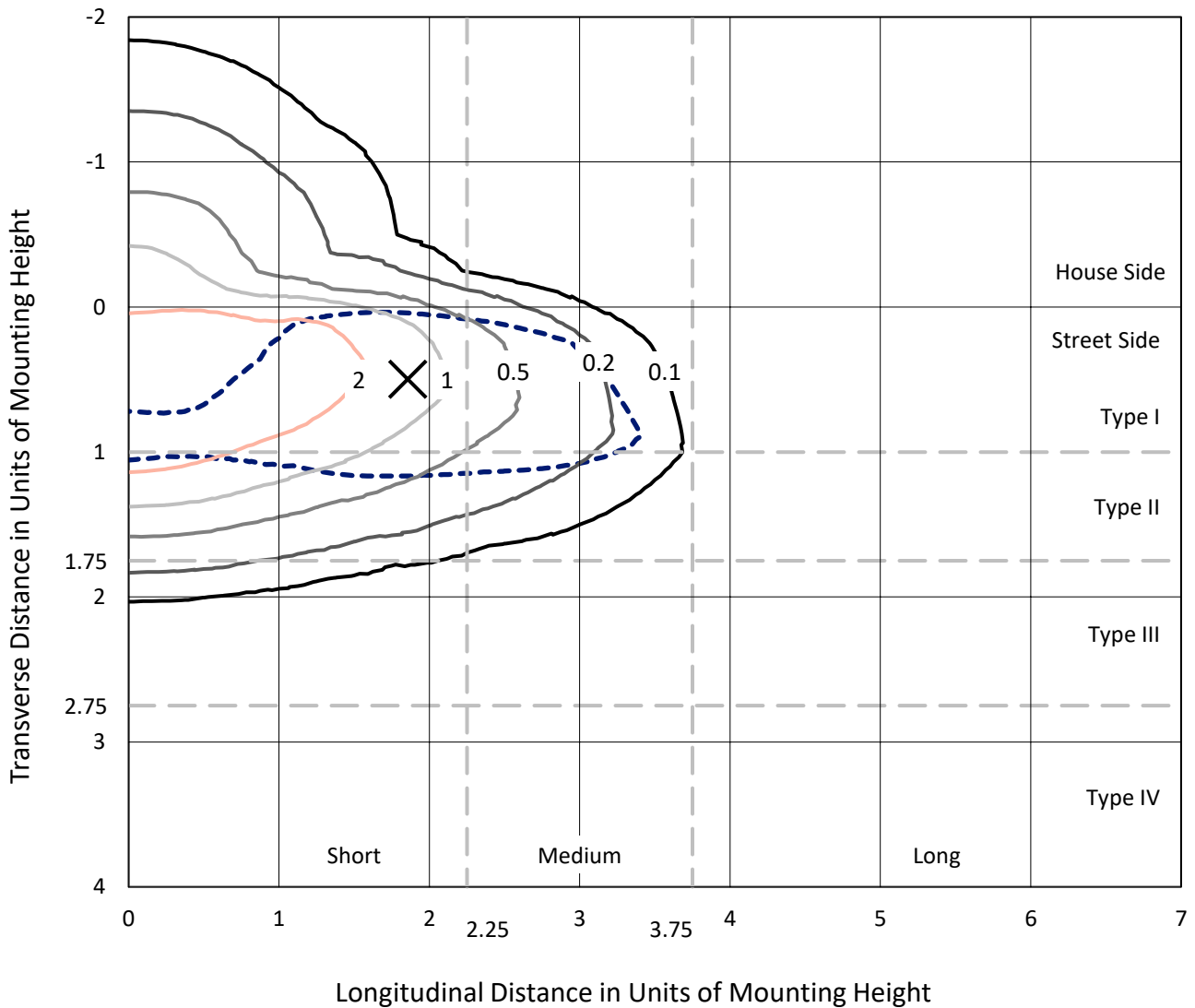
Input Watts (W): 83  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

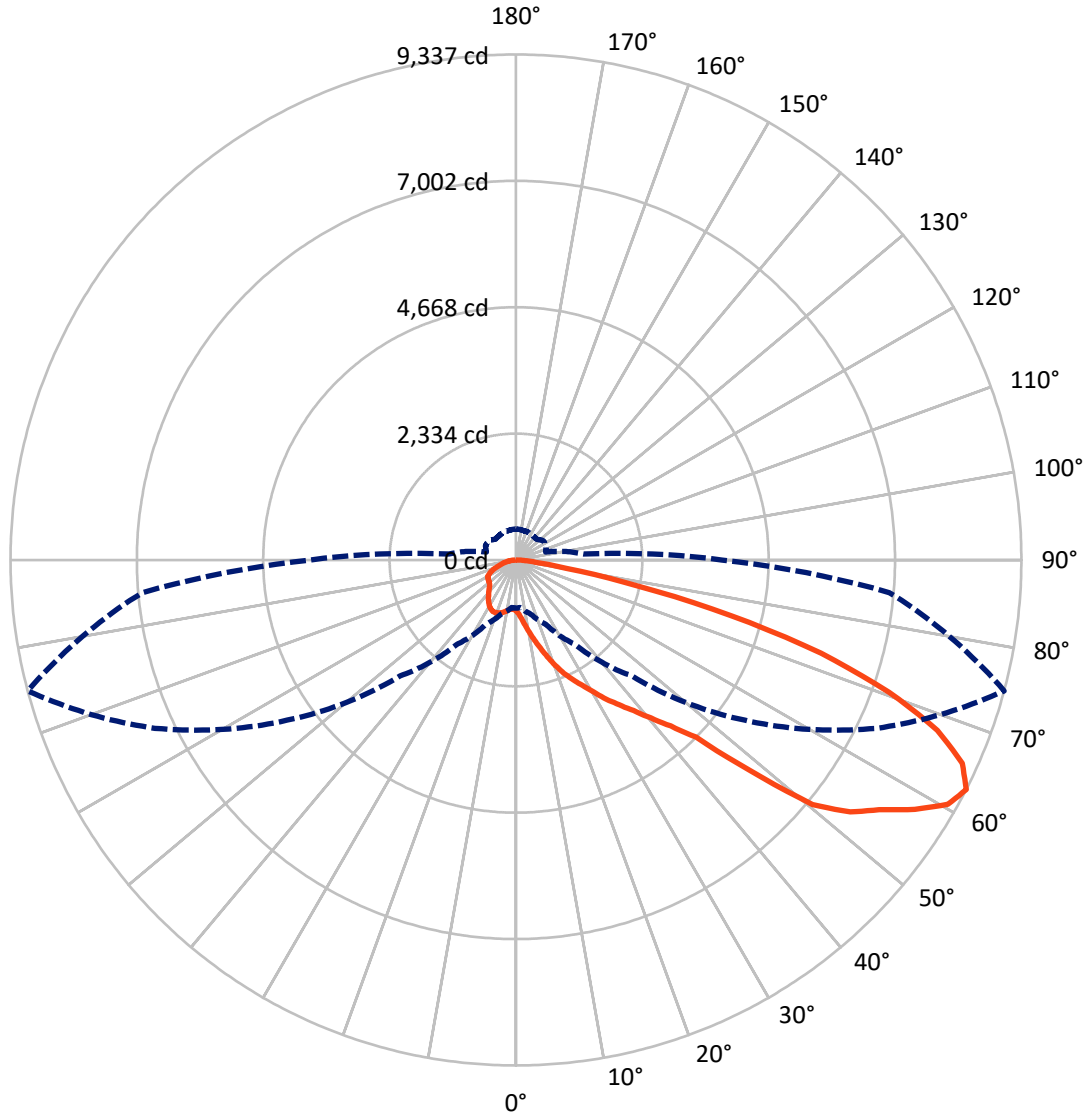
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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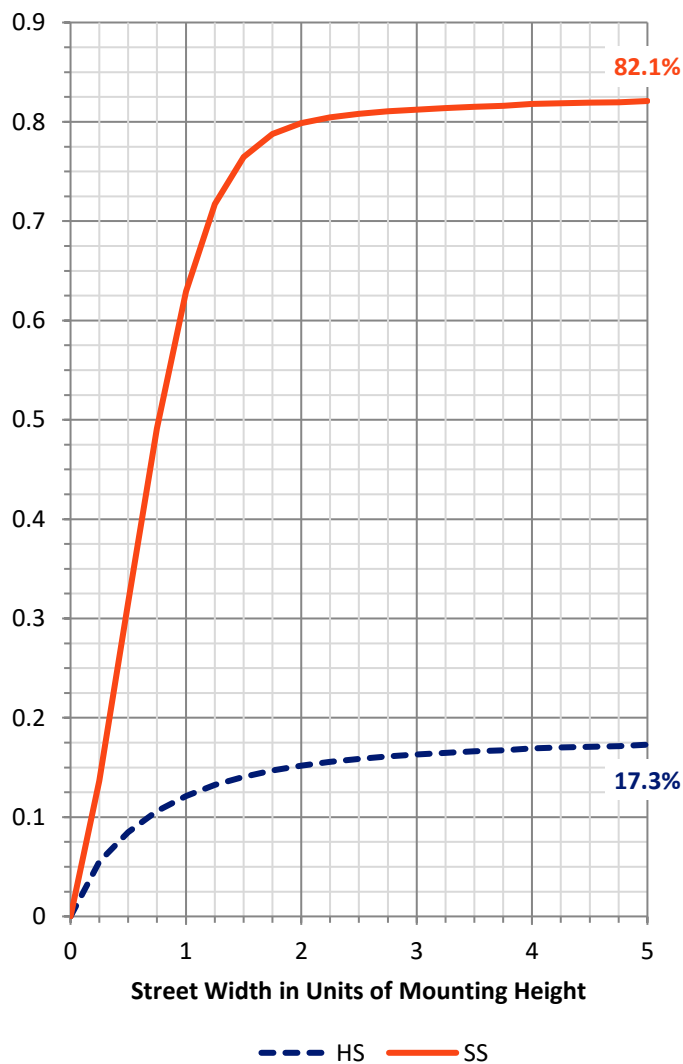
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1907.5	0.0	1907.5
	% Fixture	17.6	0.0	17.6
<b>Street Side</b>	Lumens	8907.5	0.0	8907.5
	% Fixture	82.4	0.0	82.4
<b>Total</b>	Lumens	10815.0	0.0	10815.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.3	1.0
10°-20°	447.5	4.1
20°-30°	885.4	8.2
30°-40°	1475.8	13.6
40°-50°	2177.7	20.1
50°-60°	2617.8	24.2
60°-70°	2034.6	18.8
70°-80°	900.1	8.3
80°-90°	162.9	1.5
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°	10815.0	100.0
0°-180°	10815.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P573464

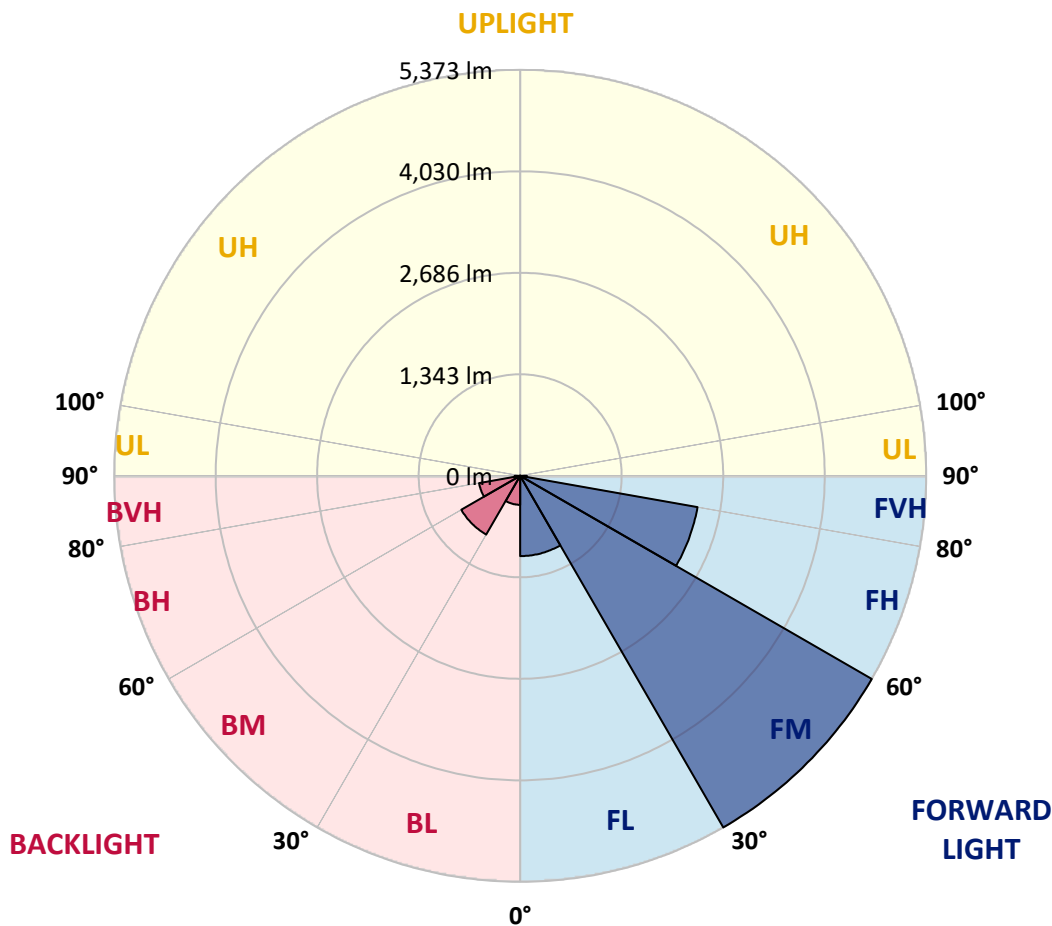
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1062.3	9.8			
FM (30°-60°)	5372.9	49.7			
FH (60°-80°)	2382.8	22.0			G2/5000
FVH (80°-90°)	89.6	0.8			G1/100
BL (0°-30°)	383.8	3.5	B1/500		
BM (30°-60°)	898.4	8.3	B1/1000		
BH (60°-80°)	551.9	5.1	B2/1000		G2/1000
BVH (80°-90°)	73.4	0.7			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°	65°	75°	85°	90°
0°	942.7	942.7	942.7	942.7	942.7	942.7	942.7	942.7	942.7	942.7	942.7
2.5°	1205.4	1170.4	1170.4	1132.4	1135.3	1103.2	1068.2	1033.2	995.2	966.1	951.5
5°	1576.0	1549.8	1541.0	1497.2	1427.2	1348.4	1263.8	1176.2	1085.7	1015.7	980.7
7.5°	1923.4	1902.9	1891.3	1841.6	1745.3	1660.7	1526.4	1365.9	1211.2	1079.9	1027.3
10°	2180.2	2165.6	2142.3	2118.9	2048.9	1975.9	1809.5	1581.9	1354.2	1158.7	1079.9
12.5°	2367.0	2346.6	2346.6	2343.6	2296.9	2229.8	2075.1	1830.0	1520.6	1246.2	1138.3
15°	2492.5	2489.6	2498.3	2515.8	2504.2	2460.4	2305.7	2057.6	1689.9	1345.5	1205.4
17.5°	2585.9	2574.2	2591.7	2638.4	2673.4	2655.9	2527.5	2276.5	1876.7	1453.5	1278.3
20°	2688.0	2664.7	2688.0	2746.4	2790.2	2816.5	2755.2	2486.6	2078.0	1570.2	1348.4
22.5°	2883.6	2880.7	2869.0	2886.5	2915.7	2962.4	2927.4	2699.7	2273.6	1687.0	1430.1
25°	3233.8	3201.7	3169.6	3131.7	3099.6	3114.1	3085.0	2898.2	2451.6	1815.4	1500.2
27.5°	3624.9	3589.9	3531.5	3438.1	3350.6	3298.0	3236.7	3070.4	2623.8	1932.1	1567.3
30°	3983.9	3972.2	3884.7	3782.5	3630.7	3534.4	3417.7	3268.8	2831.0	2060.5	1637.3
32.5°	4319.5	4296.2	4208.6	4100.6	3922.6	3814.6	3654.1	3484.8	3067.5	2218.1	1710.3
35°	4608.5	4585.1	4483.0	4345.8	4191.1	4097.7	3913.8	3677.4	3283.4	2355.3	1771.6
37.5°	4827.4	4801.1	4704.8	4570.5	4433.4	4389.6	4232.0	3922.6	3528.6	2527.5	1847.5
40°	4949.9	4917.8	4853.6	4760.2	4646.4	4626.0	4558.9	4226.1	3838.0	2737.6	1958.4
42.5°	4964.5	4935.4	4900.3	4891.6	4882.8	4900.3	4932.4	4570.5	4191.1	3017.8	2121.8
45°	4836.1	4818.6	4821.5	4920.8	5057.9	5218.5	5411.1	5078.4	4666.8	3551.9	2489.6
47.5°	4561.8	4553.0	4617.2	4783.6	5090.0	5454.9	6000.6	5948.1	5793.4	4412.9	2962.4
50°	4118.1	4103.6	4240.7	4503.4	4941.2	5533.7	6397.6	6972.5	7101.0	5081.3	3271.8
52.5°	3481.9	3499.4	3712.5	4071.4	4599.7	5449.0	6561.0	7392.8	7731.4	5574.5	3508.2
55°	2831.0	2804.8	2997.4	3441.0	4094.8	5139.7	6593.1	7635.1	8140.0	6029.8	3738.7
57.5°	2063.5	2127.7	2332.0	2734.7	3443.9	4579.3	6406.3	7801.4	8688.7	6485.1	3951.8
60°	1398.0	1398.0	1579.0	1981.7	2661.8	3899.3	5907.2	7740.1	9167.3	6841.2	3998.5
62.5°	890.2	881.4	1027.3	1313.4	1905.8	3029.5	5160.1	7354.9	9336.6	6925.8	3802.9
65°	563.3	575.0	627.5	802.6	1220.0	2151.0	4141.5	6587.3	9059.3	6730.3	3461.5
67.5°	452.4	455.3	481.6	554.5	750.1	1380.5	3070.4	5527.8	8396.8	6237.1	3061.6
70°	399.8	405.7	411.5	437.8	513.7	872.7	2016.8	4450.9	7311.1	5379.0	2632.6
72.5°	364.8	370.7	376.5	382.3	423.2	569.1	1190.8	3373.9	5898.5	4132.7	2008.0
75°	335.6	341.5	341.5	344.4	367.7	423.2	653.8	2326.1	4106.5	2571.3	1252.1
77.5°	300.6	303.5	303.5	309.4	332.7	332.7	405.7	1438.9	2279.4	1164.5	633.3
80°	253.9	259.8	259.8	268.5	291.9	256.8	271.4	735.5	945.6	478.7	283.1
82.5°	186.8	198.5	204.3	218.9	233.5	195.5	195.5	370.7	399.8	213.1	151.8
85°	102.2	105.1	151.8	163.4	172.2	116.7	131.3	183.9	198.5	93.4	75.9
87.5°	29.2	32.1	73.0	90.5	81.7	49.6	55.5	70.0	70.0	26.3	20.4
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	942.7	942.7	942.7	942.7	942.7	942.7	942.7	942.7	942.7	942.7
2.5°	939.8	916.4	896.0	881.4	866.8	858.1	855.2	849.3	849.3	852.2
5°	951.5	910.6	878.5	861.0	849.3	843.5	840.6	840.6	843.5	843.5
7.5°	980.7	919.4	890.2	875.6	863.9	858.1	858.1	855.2	858.1	858.1
10°	1021.5	945.6	913.5	896.0	887.3	878.5	875.6	872.7	872.7	872.7
12.5°	1065.3	974.8	939.8	919.4	904.8	893.1	887.3	881.4	878.5	878.5
15°	1106.1	1004.0	957.3	934.0	913.5	896.0	884.3	875.6	872.7	872.7
17.5°	1149.9	1024.4	969.0	936.9	910.6	887.3	872.7	861.0	855.2	855.2
20°	1196.6	1039.0	969.0	928.1	893.1	869.7	852.2	840.6	828.9	828.9
22.5°	1234.6	1044.9	957.3	907.7	872.7	843.5	826.0	811.4	802.6	802.6
25°	1266.7	1039.0	931.0	875.6	834.7	808.5	790.9	779.3	770.5	770.5
27.5°	1287.1	1015.7	898.9	840.6	802.6	776.3	764.7	753.0	747.2	747.2
30°	1298.8	986.5	858.1	802.6	764.7	750.1	744.2	732.6	723.8	720.9
32.5°	1304.6	942.7	817.2	764.7	738.4	732.6	732.6	718.0	706.3	703.4
35°	1298.8	896.0	776.3	732.6	723.8	726.7	720.9	703.4	688.8	683.0
37.5°	1290.0	840.6	732.6	709.2	718.0	723.8	706.3	683.0	659.6	653.8
40°	1284.2	790.9	697.5	685.9	712.1	715.1	683.0	639.2	621.7	615.8
42.5°	1313.4	741.3	665.4	668.4	697.5	700.5	642.1	621.7	610.0	607.1
45°	1412.6	697.5	639.2	656.7	680.0	668.4	621.7	618.7	610.0	607.1
47.5°	1488.5	665.4	627.5	647.9	665.4	624.6	618.7	615.8	607.1	604.2
50°	1514.8	645.0	624.6	642.1	645.0	604.2	612.9	612.9	604.2	601.2
52.5°	1517.7	633.3	630.4	639.2	612.9	595.4	607.1	607.1	598.3	595.4
55°	1529.3	627.5	633.3	639.2	577.9	583.7	595.4	598.3	589.6	586.6
57.5°	1506.0	618.7	639.2	642.1	563.3	572.0	583.7	583.7	583.7	583.7
60°	1415.5	601.2	636.3	636.3	551.6	557.5	569.1	575.0	577.9	577.9
62.5°	1249.2	566.2	618.7	618.7	539.9	545.8	560.4	560.4	569.1	569.1
65°	1039.0	516.6	583.7	580.8	528.3	534.1	551.6	545.8	560.4	563.3
67.5°	866.8	455.3	531.2	537.0	516.6	531.2	542.9	522.4	551.6	551.6
70°	691.7	382.3	461.1	487.4	496.2	534.1	525.3	493.2	531.2	522.4
72.5°	537.0	324.0	379.4	426.1	472.8	531.2	487.4	452.4	475.7	461.1
75°	391.1	268.5	312.3	353.2	440.7	522.4	449.5	396.9	396.9	391.1
77.5°	274.3	218.9	251.0	280.2	408.6	499.1	402.8	341.5	326.9	324.0
80°	186.8	172.2	198.5	216.0	361.9	452.4	347.3	283.1	256.8	251.0
82.5°	122.6	122.6	134.3	145.9	280.2	376.5	271.4	210.1	271.4	259.8
85°	70.0	73.0	73.0	84.6	154.7	265.6	192.6	210.1	125.5	116.7
87.5°	23.3	23.3	23.3	23.3	32.1	108.0	81.7	75.9	29.2	26.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)