

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: P573545

Luminaire Tested: **ARCH-S-PA2-90-730-U-T2R**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573545  
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-PA2-90-730-U-T2R  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 910mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11733 lumens  
Efficiency: N/A  
Efficacy: 127.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

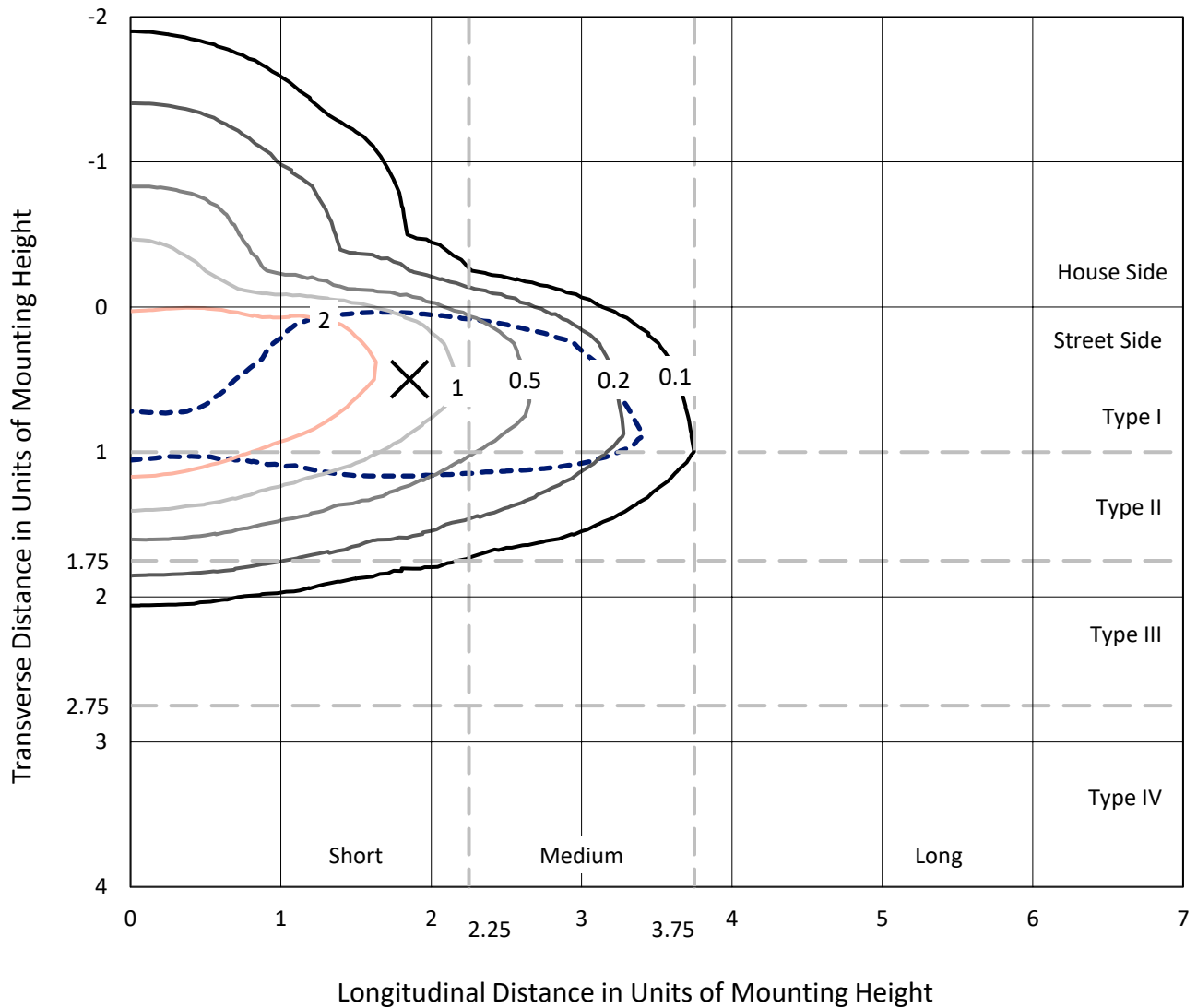
Input Watts (W): 92.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

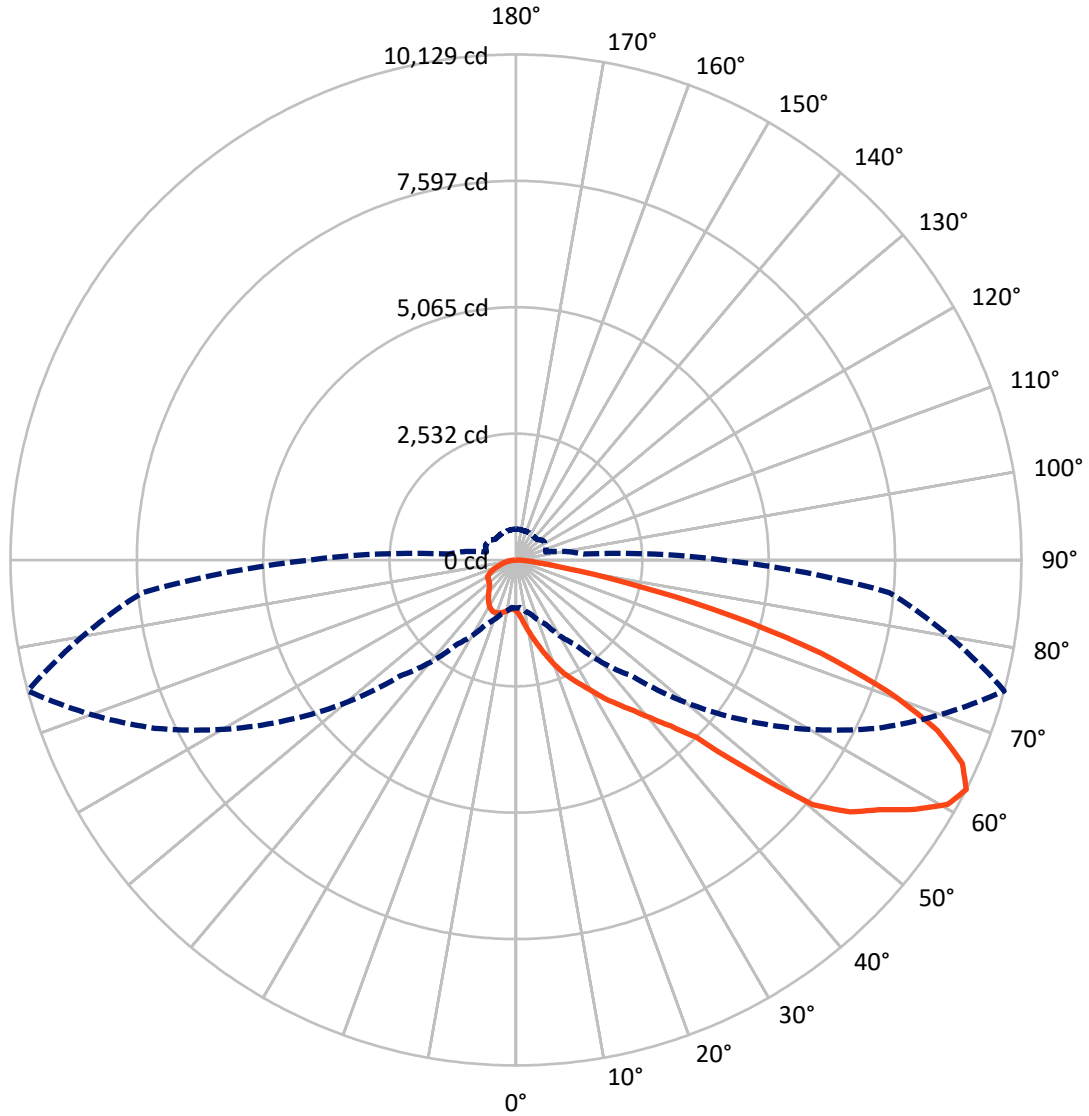
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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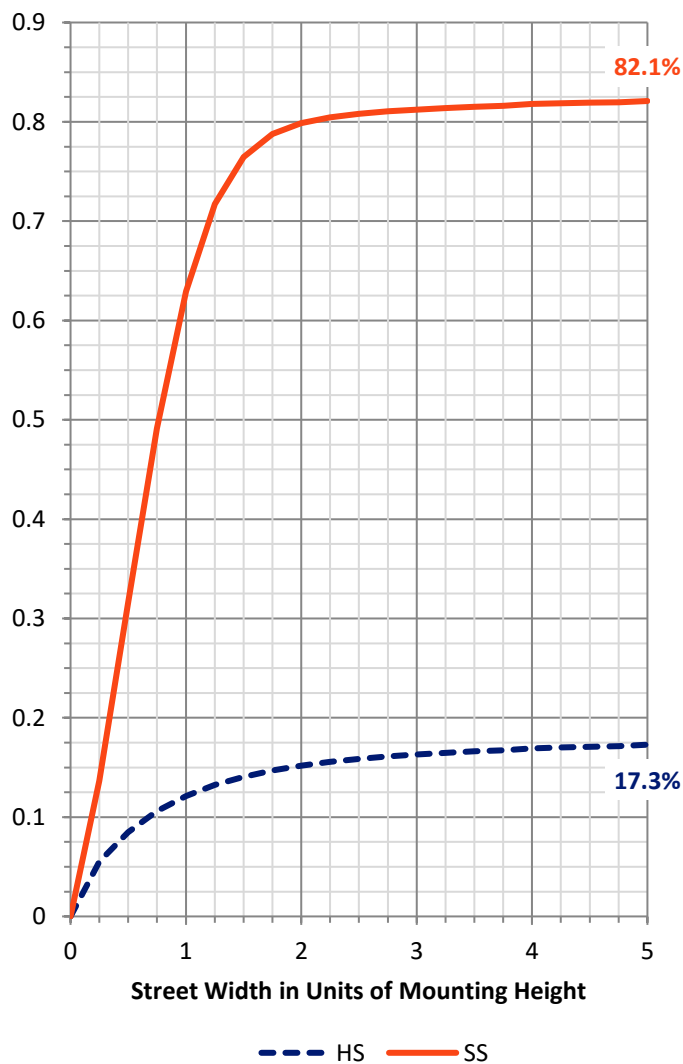
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2069.4	0.0	2069.4
	% Fixture	17.6	0.0	17.6
<b>Street Side</b>	Lumens	9663.6	0.0	9663.6
	% Fixture	82.4	0.0	82.4
<b>Total</b>	Lumens	11733.0	0.0	11733.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.9	1.0
10°-20°	485.5	4.1
20°-30°	960.5	8.2
30°-40°	1601.1	13.6
40°-50°	2362.6	20.1
50°-60°	2840.0	24.2
60°-70°	2207.2	18.8
70°-80°	976.5	8.3
80°-90°	176.8	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°	11733.0	100.0
0°-180°	11733.0	100.0

**Coefficient of Utilization**



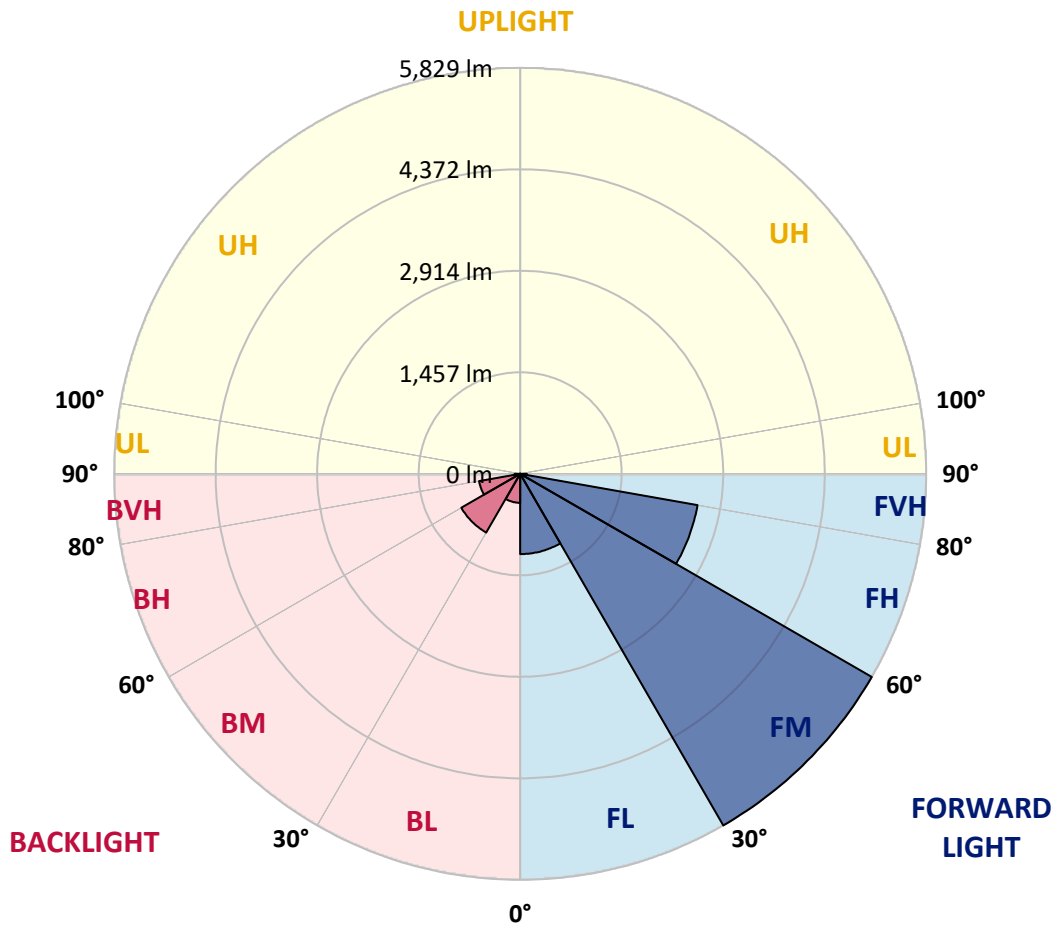
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1152.5	9.8			
FM (30°-60°)	5829.0	49.7			
FH (60°-80°)	2585.0	22.0			G2/5000
FVH (80°-90°)	97.2	0.8			G1/100
BL (0°-30°)	416.4	3.5	B1/500		
BM (30°-60°)	974.7	8.3	B1/1000		
BH (60°-80°)	598.7	5.1	B2/1000		G2/1000
BVH (80°-90°)	79.6	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°	1022.7	1022.7	1022.7	1022.7	1022.7	1022.7	1022.7	1022.7	1022.7	1022.7	1022.7
2.5°	1307.7	1269.7	1269.7	1228.5	1231.7	1196.9	1158.9	1120.9	1079.7	1048.1	1032.2
5°	1709.8	1681.3	1671.8	1624.3	1548.3	1462.8	1371.0	1276.0	1177.9	1101.9	1063.9
7.5°	2086.6	2064.5	2051.8	1998.0	1893.5	1801.6	1656.0	1481.8	1314.0	1171.5	1114.6
10°	2365.3	2349.4	2324.1	2298.8	2222.8	2143.6	1963.1	1716.2	1469.2	1257.0	1171.5
12.5°	2567.9	2545.7	2545.7	2542.6	2491.9	2419.1	2251.3	1985.3	1649.7	1352.0	1234.9
15°	2704.1	2700.9	2710.4	2729.4	2716.7	2669.2	2501.4	2232.3	1833.3	1459.7	1307.7
17.5°	2805.4	2792.7	2811.7	2862.4	2900.4	2881.4	2742.0	2469.7	2036.0	1576.8	1386.9
20°	2916.2	2890.9	2916.2	2979.5	3027.0	3055.5	2989.0	2697.7	2254.4	1703.5	1462.8
22.5°	3128.3	3125.2	3112.5	3131.5	3163.2	3213.8	3175.8	2928.9	2466.6	1830.1	1551.5
25°	3508.3	3473.5	3438.6	3397.5	3362.7	3378.5	3346.8	3144.2	2659.7	1969.5	1627.5
27.5°	3932.6	3894.6	3831.3	3729.9	3635.0	3578.0	3511.5	3331.0	2846.5	2096.1	1700.3
30°	4322.1	4309.4	4214.4	4103.6	3938.9	3834.4	3707.8	3546.3	3071.3	2235.4	1776.3
32.5°	4686.2	4660.9	4565.9	4448.7	4255.6	4138.4	3964.3	3780.6	3327.8	2406.4	1855.5
35°	4999.6	4974.3	4863.5	4714.7	4546.9	4445.5	4246.1	3989.6	3562.1	2555.2	1922.0
37.5°	5237.1	5208.6	5104.1	4958.5	4809.7	4762.2	4591.2	4255.6	3828.1	2742.0	2004.3
40°	5370.1	5335.3	5265.6	5164.3	5040.8	5018.6	4945.8	4584.9	4163.7	2970.0	2124.6
42.5°	5385.9	5354.3	5316.3	5306.8	5297.3	5316.3	5351.1	4958.5	4546.9	3274.0	2301.9
45°	5246.6	5227.6	5230.8	5338.4	5487.3	5661.4	5870.4	5509.4	5063.0	3853.4	2700.9
47.5°	4949.0	4939.5	5009.1	5189.6	5522.1	5917.9	6510.0	6453.0	6285.2	4787.5	3213.8
50°	4467.7	4451.9	4600.7	4885.7	5360.6	6003.4	6940.6	7564.4	7703.7	5512.6	3549.5
52.5°	3777.4	3796.4	4027.6	4417.0	4990.1	5911.6	7117.9	8020.3	8387.6	6047.7	3805.9
55°	3071.3	3042.9	3251.8	3733.1	4442.4	5575.9	7152.8	8283.1	8830.9	6541.7	4056.1
57.5°	2238.6	2308.3	2529.9	2966.9	3736.3	4968.0	6950.1	8463.6	9426.2	7035.6	4287.2
60°	1516.7	1516.7	1713.0	2149.9	2887.7	4230.2	6408.7	8397.1	9945.5	7421.9	4337.9
62.5°	965.7	956.2	1114.6	1424.9	2067.6	3286.7	5598.1	7979.2	10129.1	7513.7	4125.7
65°	611.1	623.8	680.8	870.7	1323.5	2333.6	4493.0	7146.4	9828.3	7301.6	3755.3
67.5°	490.8	493.9	522.4	601.6	813.7	1497.7	3331.0	5997.0	9109.6	6766.5	3321.5
70°	433.8	440.1	446.5	475.0	557.3	946.7	2187.9	4828.7	7931.7	5835.6	2856.0
72.5°	395.8	402.1	408.5	414.8	459.1	617.4	1291.9	3660.3	6399.2	4483.5	2178.4
75°	364.1	370.5	370.5	373.6	399.0	459.1	709.3	2523.6	4455.0	2789.5	1358.4
77.5°	326.1	329.3	329.3	335.6	361.0	361.0	440.1	1561.0	2472.9	1263.4	687.1
80°	275.5	281.8	281.8	291.3	316.6	278.6	294.5	797.9	1025.9	519.3	307.1
82.5°	202.6	215.3	221.6	237.5	253.3	212.1	212.1	402.1	433.8	231.1	164.6
85°	110.8	114.0	164.6	177.3	186.8	126.7	142.5	199.5	215.3	101.3	82.3
87.5°	31.7	34.8	79.2	98.2	88.7	53.8	60.2	76.0	76.0	28.5	22.2
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°	1022.7	1022.7	1022.7	1022.7	1022.7	1022.7	1022.7	1022.7	1022.7	1022.7
2.5°	1019.6	994.2	972.1	956.2	940.4	930.9	927.7	921.4	921.4	924.6
5°	1032.2	987.9	953.1	934.1	921.4	915.1	911.9	911.9	915.1	915.1
7.5°	1063.9	997.4	965.7	949.9	937.2	930.9	930.9	927.7	930.9	930.9
10°	1108.2	1025.9	991.1	972.1	962.6	953.1	949.9	946.7	946.7	946.7
12.5°	1155.7	1057.6	1019.6	997.4	981.6	968.9	962.6	956.2	953.1	953.1
15°	1200.0	1089.2	1038.6	1013.2	991.1	972.1	959.4	949.9	946.7	946.7
17.5°	1247.5	1111.4	1051.2	1016.4	987.9	962.6	946.7	934.1	927.7	927.7
20°	1298.2	1127.2	1051.2	1006.9	968.9	943.6	924.6	911.9	899.2	899.2
22.5°	1339.4	1133.5	1038.6	984.7	946.7	915.1	896.1	880.2	870.7	870.7
25°	1374.2	1127.2	1010.1	949.9	905.6	877.1	858.1	845.4	835.9	835.9
27.5°	1396.4	1101.9	975.2	911.9	870.7	842.2	829.6	816.9	810.6	810.6
30°	1409.0	1070.2	930.9	870.7	829.6	813.7	807.4	794.8	785.3	782.1
32.5°	1415.4	1022.7	886.6	829.6	801.1	794.8	794.8	778.9	766.3	763.1
35°	1409.0	972.1	842.2	794.8	785.3	788.4	782.1	763.1	747.3	740.9
37.5°	1399.5	911.9	794.8	769.4	778.9	785.3	766.3	740.9	715.6	709.3
40°	1393.2	858.1	756.8	744.1	772.6	775.8	740.9	693.4	674.4	668.1
42.5°	1424.9	804.3	721.9	725.1	756.8	759.9	696.6	674.4	661.8	658.6
45°	1532.5	756.8	693.4	712.4	737.8	725.1	674.4	671.3	661.8	658.6
47.5°	1614.8	721.9	680.8	702.9	721.9	677.6	671.3	668.1	658.6	655.4
50°	1643.3	699.8	677.6	696.6	699.8	655.4	664.9	664.9	655.4	652.3
52.5°	1646.5	687.1	683.9	693.4	664.9	645.9	658.6	658.6	649.1	645.9
55°	1659.2	680.8	687.1	693.4	626.9	633.3	645.9	649.1	639.6	636.4
57.5°	1633.8	671.3	693.4	696.6	611.1	620.6	633.3	633.3	633.3	633.3
60°	1535.7	652.3	690.3	690.3	598.4	604.8	617.4	623.8	626.9	626.9
62.5°	1355.2	614.3	671.3	671.3	585.8	592.1	607.9	607.9	617.4	617.4
65°	1127.2	560.4	633.3	630.1	573.1	579.4	598.4	592.1	607.9	611.1
67.5°	940.4	493.9	576.3	582.6	560.4	576.3	588.9	566.8	598.4	598.4
70°	750.4	414.8	500.3	528.8	538.3	579.4	569.9	535.1	576.3	566.8
72.5°	582.6	351.5	411.6	462.3	512.9	576.3	528.8	490.8	516.1	500.3
75°	424.3	291.3	338.8	383.1	478.1	566.8	487.6	430.6	430.6	424.3
77.5°	297.6	237.5	272.3	304.0	443.3	541.4	437.0	370.5	354.6	351.5
80°	202.6	186.8	215.3	234.3	392.6	490.8	376.8	307.1	278.6	272.3
82.5°	133.0	133.0	145.7	158.3	304.0	408.5	294.5	228.0	294.5	281.8
85°	76.0	79.2	79.2	91.8	167.8	288.1	209.0	228.0	136.2	126.7
87.5°	25.3	25.3	25.3	25.3	34.8	117.2	88.7	82.3	31.7	28.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)