

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: P573302

Luminaire Tested: **ARCH-S-PA2-60-730-U-T2R**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573302  
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-PA2-60-730-U-T2R  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8647 lumens  
Efficiency: N/A  
Efficacy: 137.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

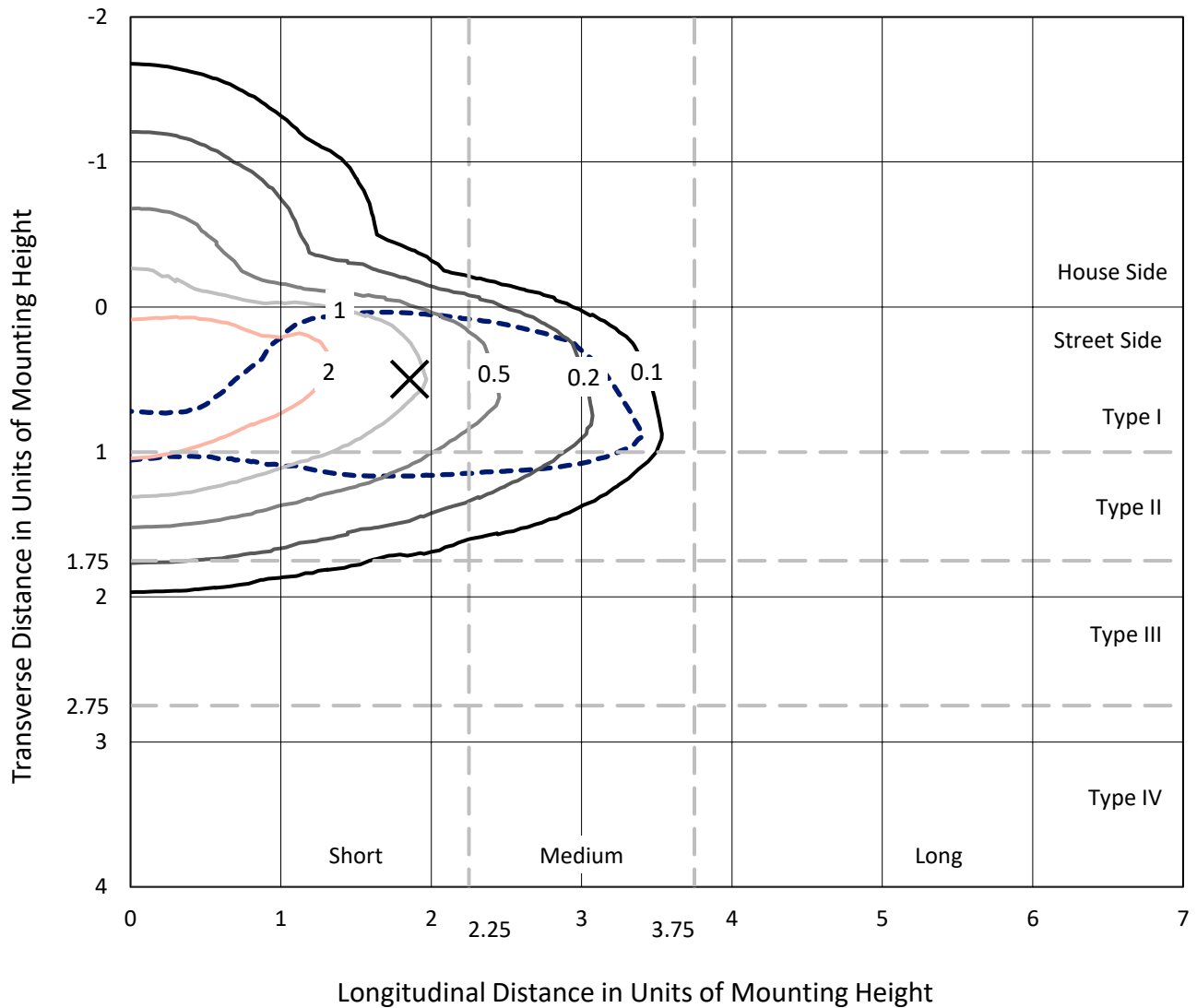
Input Watts (W): 63.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

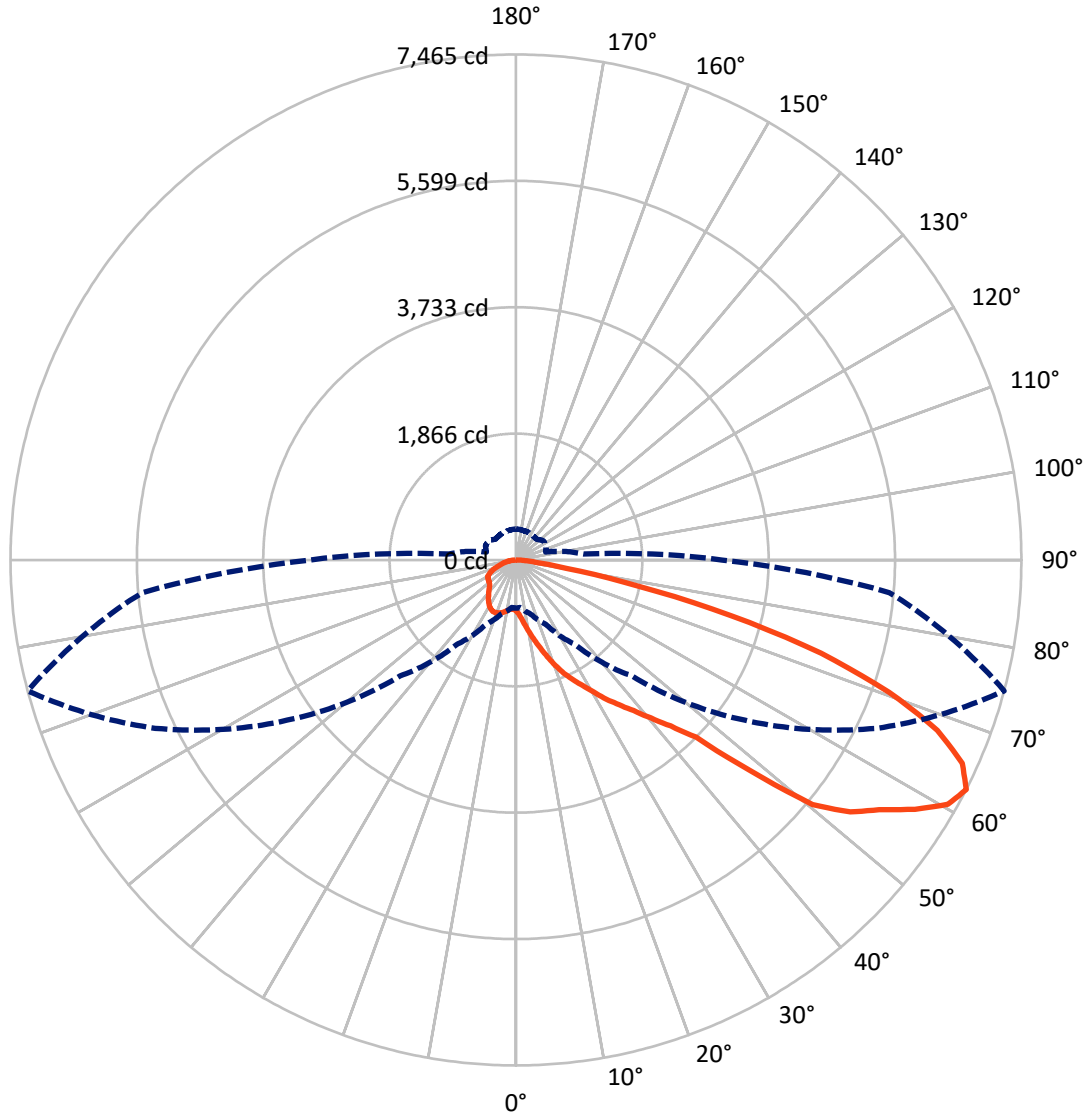
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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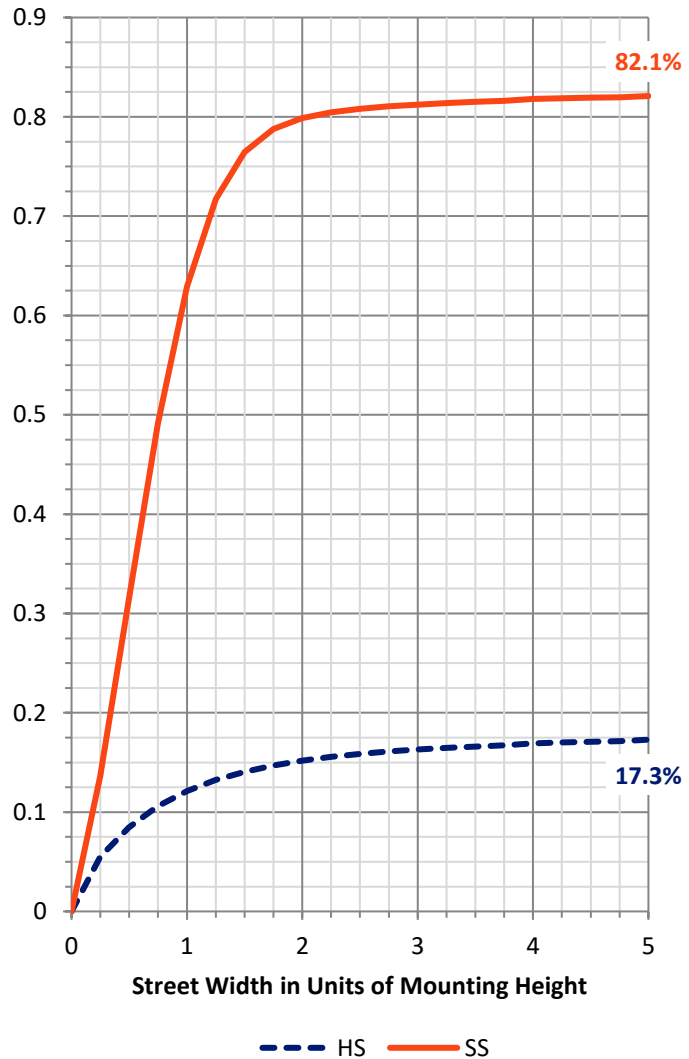
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1525.1	0.0	1525.1
	% Fixture	17.6	0.0	17.6
<b>Street Side</b>	Lumens	7121.9	0.0	7121.9
	% Fixture	82.4	0.0	82.4
<b>Total</b>	Lumens	8647.0	0.0	8647.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.5	1.0
10°-20°	357.8	4.1
20°-30°	707.9	8.2
30°-40°	1179.9	13.6
40°-50°	1741.2	20.1
50°-60°	2093.0	24.2
60°-70°	1626.7	18.8
70°-80°	719.6	8.3
80°-90°	130.3	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°	8647.0	100.0
0°-180°	8647.0	100.0

**Coefficient of Utilization**

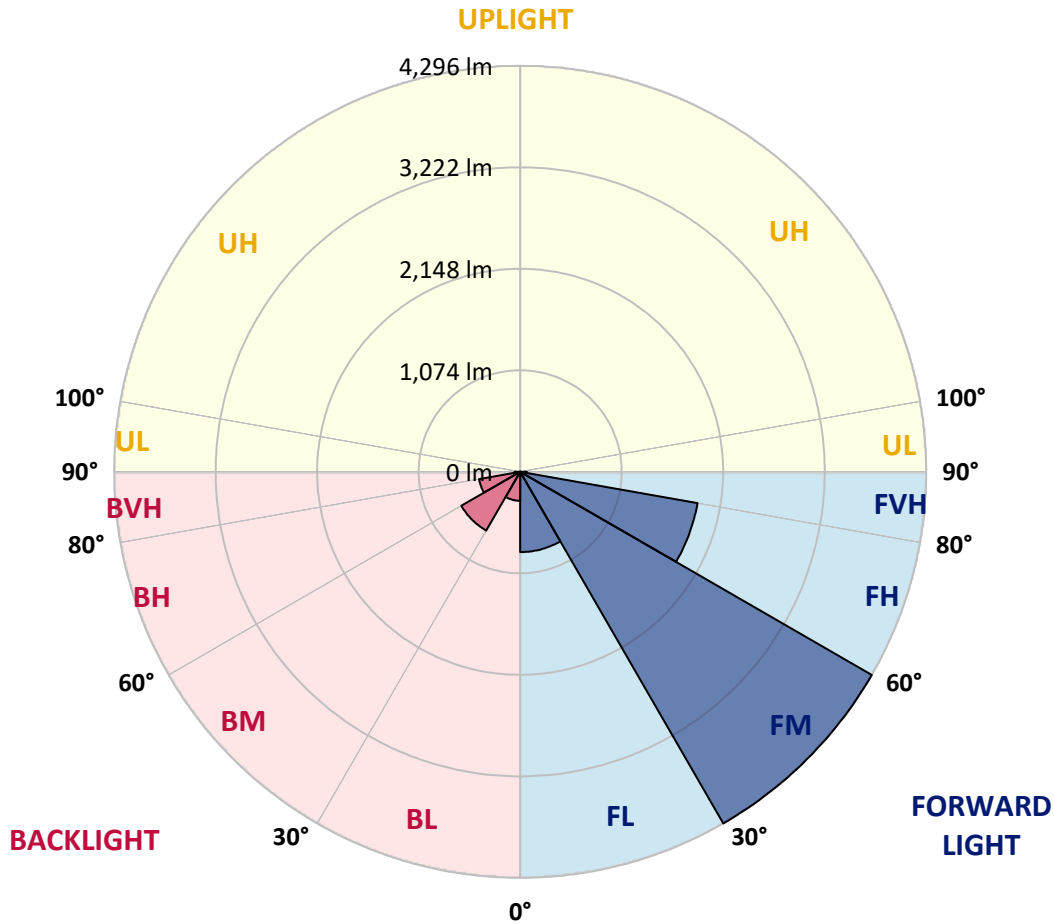


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	849.4	9.8			
FM (30°-60°)	4295.8	49.7			
FH (60°-80°)	1905.1	22.0			G2/5000
FVH (80°-90°)	71.6	0.8			G1/100
BL (0°-30°)	306.9	3.5	B1/500		
BM (30°-60°)	718.3	8.3	B1/1000		
BH (60°-80°)	441.2	5.1	B1/500		G1/500
BVH (80°-90°)	58.7	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	753.7	753.7	753.7	753.7	753.7	753.7	753.7	753.7	753.7	753.7	753.7
2.5°	963.7	935.7	935.7	905.4	907.7	882.1	854.1	826.1	795.7	772.4	760.7
5°	1260.1	1239.1	1232.1	1197.1	1141.1	1078.1	1010.4	940.4	868.1	812.1	784.1
7.5°	1537.8	1521.5	1512.1	1472.5	1395.5	1327.8	1220.4	1092.1	968.4	863.4	821.4
10°	1743.1	1731.5	1712.8	1694.1	1638.1	1579.8	1446.8	1264.8	1082.8	926.4	863.4
12.5°	1892.5	1876.2	1876.2	1873.8	1836.5	1782.8	1659.1	1463.1	1215.8	996.4	910.1
15°	1992.8	1990.5	1997.5	2011.5	2002.2	1967.2	1843.5	1645.1	1351.1	1075.8	963.7
17.5°	2067.5	2058.2	2072.2	2109.5	2137.5	2123.5	2020.8	1820.2	1500.5	1162.1	1022.1
20°	2149.2	2130.5	2149.2	2195.9	2230.9	2251.9	2202.9	1988.2	1661.5	1255.4	1078.1
22.5°	2305.5	2303.2	2293.9	2307.9	2331.2	2368.5	2340.5	2158.5	1817.8	1348.8	1143.4
25°	2585.6	2559.9	2534.2	2503.9	2478.2	2489.9	2466.5	2317.2	1960.2	1451.5	1199.4
27.5°	2898.2	2870.2	2823.6	2748.9	2678.9	2636.9	2587.9	2454.9	2097.8	1544.8	1253.1
30°	3185.3	3175.9	3105.9	3024.3	2902.9	2825.9	2732.6	2613.6	2263.5	1647.5	1309.1
32.5°	3453.6	3435.0	3365.0	3278.6	3136.3	3049.9	2921.6	2786.2	2452.5	1773.5	1367.4
35°	3684.6	3666.0	3584.3	3474.6	3351.0	3276.3	3129.3	2940.3	2625.2	1883.2	1416.5
37.5°	3859.7	3838.7	3761.7	3654.3	3544.6	3509.6	3383.6	3136.3	2821.2	2020.8	1477.1
40°	3957.7	3932.0	3880.7	3806.0	3715.0	3698.6	3645.0	3379.0	3068.6	2188.9	1565.8
42.5°	3969.3	3946.0	3918.0	3911.0	3904.0	3918.0	3943.7	3654.3	3351.0	2412.9	1696.5
45°	3866.7	3852.7	3855.0	3934.3	4044.0	4172.4	4326.4	4060.3	3731.3	2839.9	1990.5
47.5°	3647.3	3640.3	3691.6	3824.7	4069.7	4361.4	4797.7	4755.7	4632.1	3528.3	2368.5
50°	3292.6	3280.9	3390.6	3600.6	3950.7	4424.4	5115.1	5574.8	5677.5	4062.7	2615.9
52.5°	2783.9	2797.9	2968.3	3255.3	3677.6	4356.7	5245.8	5910.8	6181.5	4457.0	2804.9
55°	2263.5	2242.5	2396.5	2751.2	3273.9	4109.3	5271.4	6104.5	6508.2	4821.1	2989.3
57.5°	1649.8	1701.1	1864.5	2186.5	2753.6	3661.3	5122.1	6237.5	6946.9	5185.1	3159.6
60°	1117.8	1117.8	1262.4	1584.5	2128.2	3117.6	4723.1	6188.5	7329.6	5469.8	3196.9
62.5°	711.7	704.7	821.4	1050.1	1523.8	2422.2	4125.7	5880.5	7465.0	5537.5	3040.6
65°	450.4	459.7	501.7	641.7	975.4	1719.8	3311.3	5266.8	7243.3	5381.1	2767.6
67.5°	361.7	364.0	385.0	443.4	599.7	1103.8	2454.9	4419.7	6713.6	4986.8	2447.9
70°	319.7	324.4	329.0	350.0	410.7	697.7	1612.5	3558.6	5845.5	4300.7	2104.8
72.5°	291.7	296.4	301.0	305.7	338.4	455.0	952.1	2697.6	4716.1	3304.3	1605.5
75°	268.4	273.0	273.0	275.4	294.0	338.4	522.7	1859.8	3283.3	2055.8	1001.1
77.5°	240.4	242.7	242.7	247.4	266.0	266.0	324.4	1150.4	1822.5	931.1	506.4
80°	203.0	207.7	207.7	214.7	233.4	205.4	217.0	588.1	756.1	382.7	226.4
82.5°	149.3	158.7	163.3	175.0	186.7	156.3	156.3	296.4	319.7	170.3	121.3
85°	81.7	84.0	121.3	130.7	137.7	93.3	105.0	147.0	158.7	74.7	60.7
87.5°	23.3	25.7	58.3	72.3	65.3	39.7	44.3	56.0	56.0	21.0	16.3
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°	753.7	753.7	753.7	753.7	753.7	753.7	753.7	753.7	753.7	753.7
2.5°	751.4	732.7	716.4	704.7	693.1	686.1	683.7	679.1	679.1	681.4
5°	760.7	728.1	702.4	688.4	679.1	674.4	672.1	672.1	674.4	674.4
7.5°	784.1	735.1	711.7	700.1	690.7	686.1	686.1	683.7	686.1	686.1
10°	816.7	756.1	730.4	716.4	709.4	702.4	700.1	697.7	697.7	697.7
12.5°	851.7	779.4	751.4	735.1	723.4	714.1	709.4	704.7	702.4	702.4
15°	884.4	802.7	765.4	746.7	730.4	716.4	707.1	700.1	697.7	697.7
17.5°	919.4	819.1	774.7	749.1	728.1	709.4	697.7	688.4	683.7	683.7
20°	956.7	830.7	774.7	742.1	714.1	695.4	681.4	672.1	662.7	662.7
22.5°	987.1	835.4	765.4	725.7	697.7	674.4	660.4	648.7	641.7	641.7
25°	1012.8	830.7	744.4	700.1	667.4	646.4	632.4	623.1	616.1	616.1
27.5°	1029.1	812.1	718.7	672.1	641.7	620.7	611.4	602.1	597.4	597.4
30°	1038.4	788.7	686.1	641.7	611.4	599.7	595.1	585.7	578.7	576.4
32.5°	1043.1	753.7	653.4	611.4	590.4	585.7	585.7	574.0	564.7	562.4
35°	1038.4	716.4	620.7	585.7	578.7	581.0	576.4	562.4	550.7	546.0
37.5°	1031.4	672.1	585.7	567.0	574.0	578.7	564.7	546.0	527.4	522.7
40°	1026.8	632.4	557.7	548.4	569.4	571.7	546.0	511.0	497.0	492.4
42.5°	1050.1	592.7	532.0	534.4	557.7	560.0	513.4	497.0	487.7	485.4
45°	1129.4	557.7	511.0	525.0	543.7	534.4	497.0	494.7	487.7	485.4
47.5°	1190.1	532.0	501.7	518.0	532.0	499.4	494.7	492.4	485.4	483.0
50°	1211.1	515.7	499.4	513.4	515.7	483.0	490.0	490.0	483.0	480.7
52.5°	1213.4	506.4	504.0	511.0	490.0	476.0	485.4	485.4	478.4	476.0
55°	1222.8	501.7	506.4	511.0	462.0	466.7	476.0	478.4	471.4	469.0
57.5°	1204.1	494.7	511.0	513.4	450.4	457.4	466.7	466.7	466.7	466.7
60°	1131.8	480.7	508.7	508.7	441.0	445.7	455.0	459.7	462.0	462.0
62.5°	998.8	452.7	494.7	494.7	431.7	436.4	448.0	448.0	455.0	455.0
65°	830.7	413.0	466.7	464.4	422.4	427.0	441.0	436.4	448.0	450.4
67.5°	693.1	364.0	424.7	429.4	413.0	424.7	434.0	417.7	441.0	441.0
70°	553.0	305.7	368.7	389.7	396.7	427.0	420.0	394.4	424.7	417.7
72.5°	429.4	259.0	303.4	340.7	378.0	424.7	389.7	361.7	380.4	368.7
75°	312.7	214.7	249.7	282.4	352.4	417.7	359.4	317.4	317.4	312.7
77.5°	219.4	175.0	200.7	224.0	326.7	399.0	322.0	273.0	261.4	259.0
80°	149.3	137.7	158.7	172.7	289.4	361.7	277.7	226.4	205.4	200.7
82.5°	98.0	98.0	107.3	116.7	224.0	301.0	217.0	168.0	217.0	207.7
85°	56.0	58.3	58.3	67.7	123.7	212.4	154.0	168.0	100.3	93.3
87.5°	18.7	18.7	18.7	18.7	25.7	86.3	65.3	60.7	23.3	21.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)