

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: P573374

Luminaire Tested: **ARCH-S-PA2-70-727-U-T2R**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573374  
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-PA2-70-727-U-T2R  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8986 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

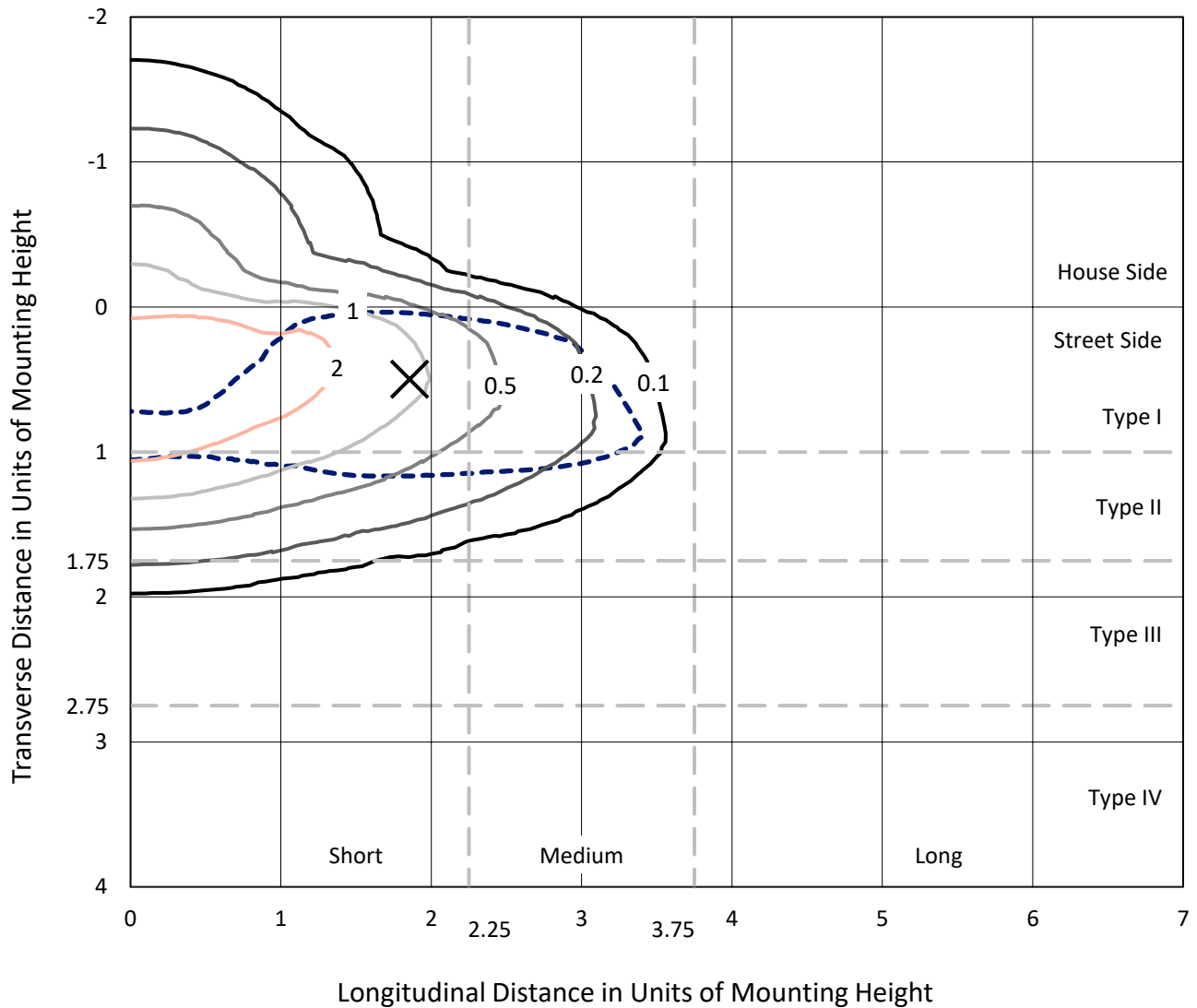
Input Watts (W): 73.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

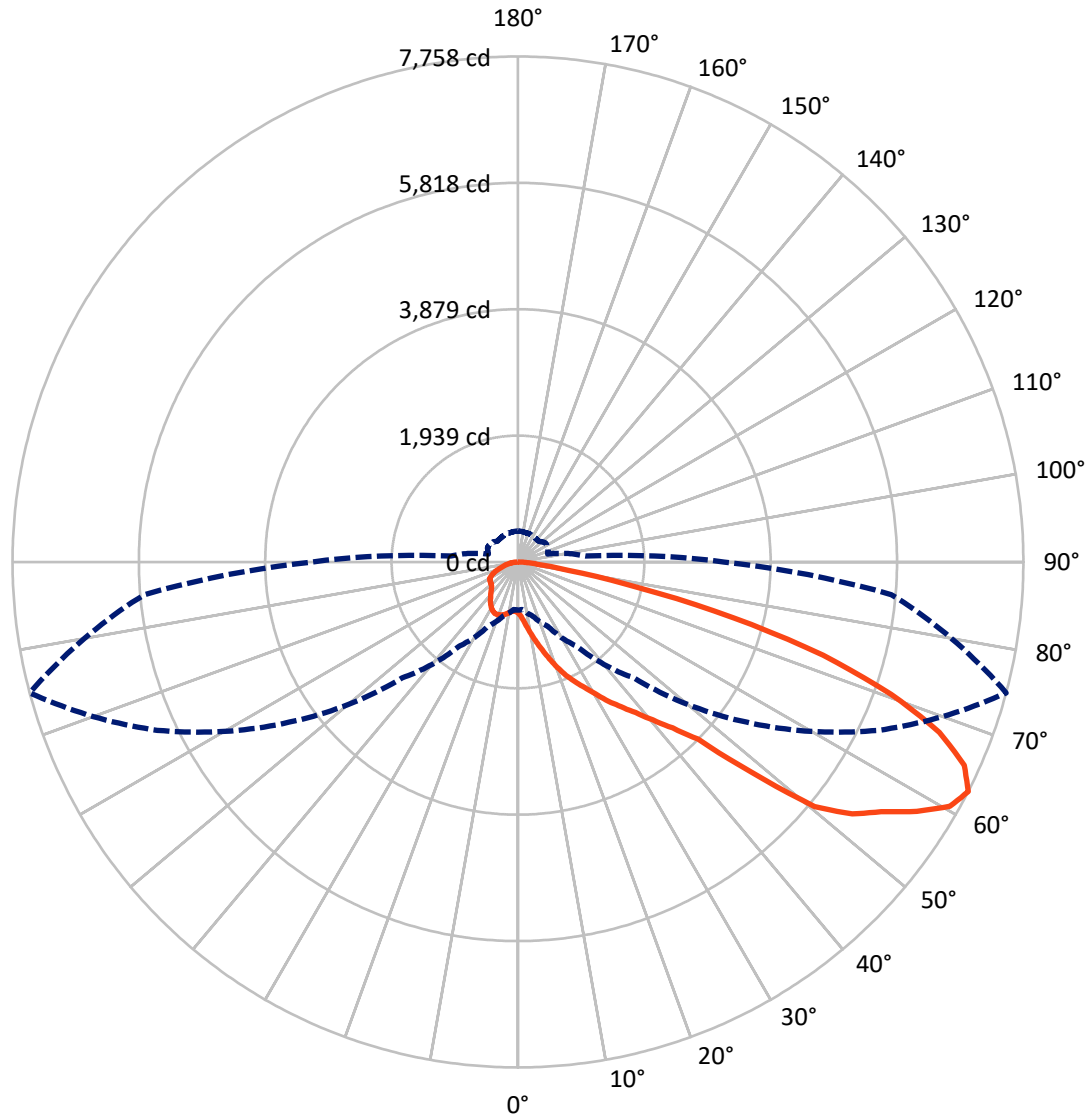
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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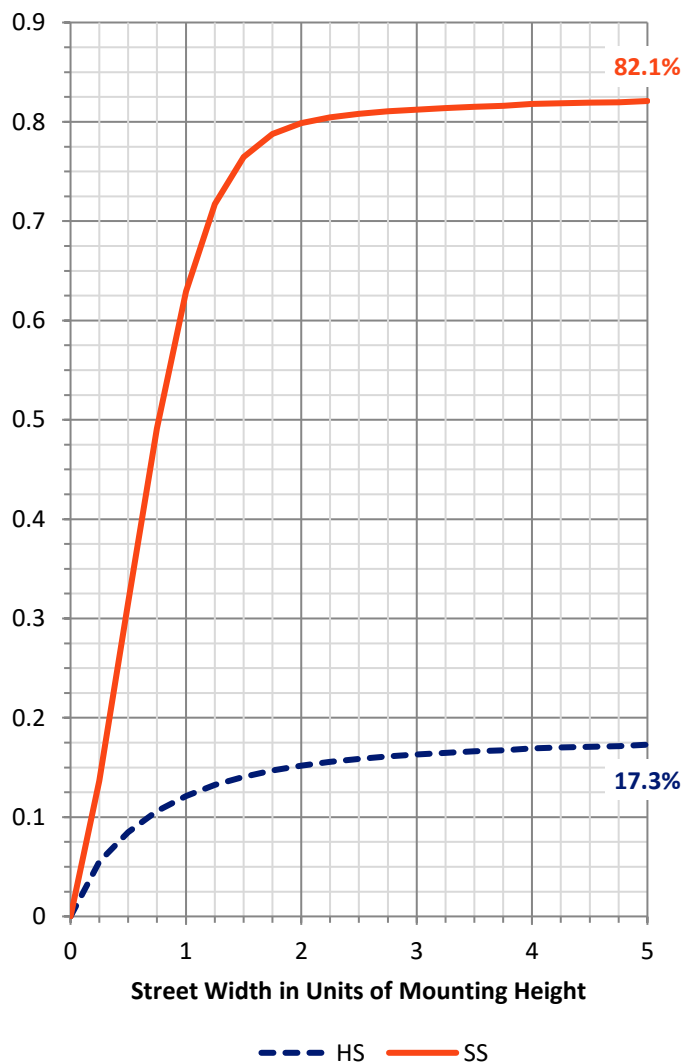
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1584.9	0.0	1584.9
	% Fixture	17.6	0.0	17.6
<b>Street Side</b>	Lumens	7401.1	0.0	7401.1
	% Fixture	82.4	0.0	82.4
<b>Total</b>	Lumens	8986.0	0.0	8986.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.1	1.0
10°-20°	371.8	4.1
20°-30°	735.6	8.2
30°-40°	1226.2	13.6
40°-50°	1809.4	20.1
50°-60°	2175.1	24.2
60°-70°	1690.5	18.8
70°-80°	747.9	8.3
80°-90°	135.4	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°	8986.0	100.0
0°-180°	8986.0	100.0

**Coefficient of Utilization**



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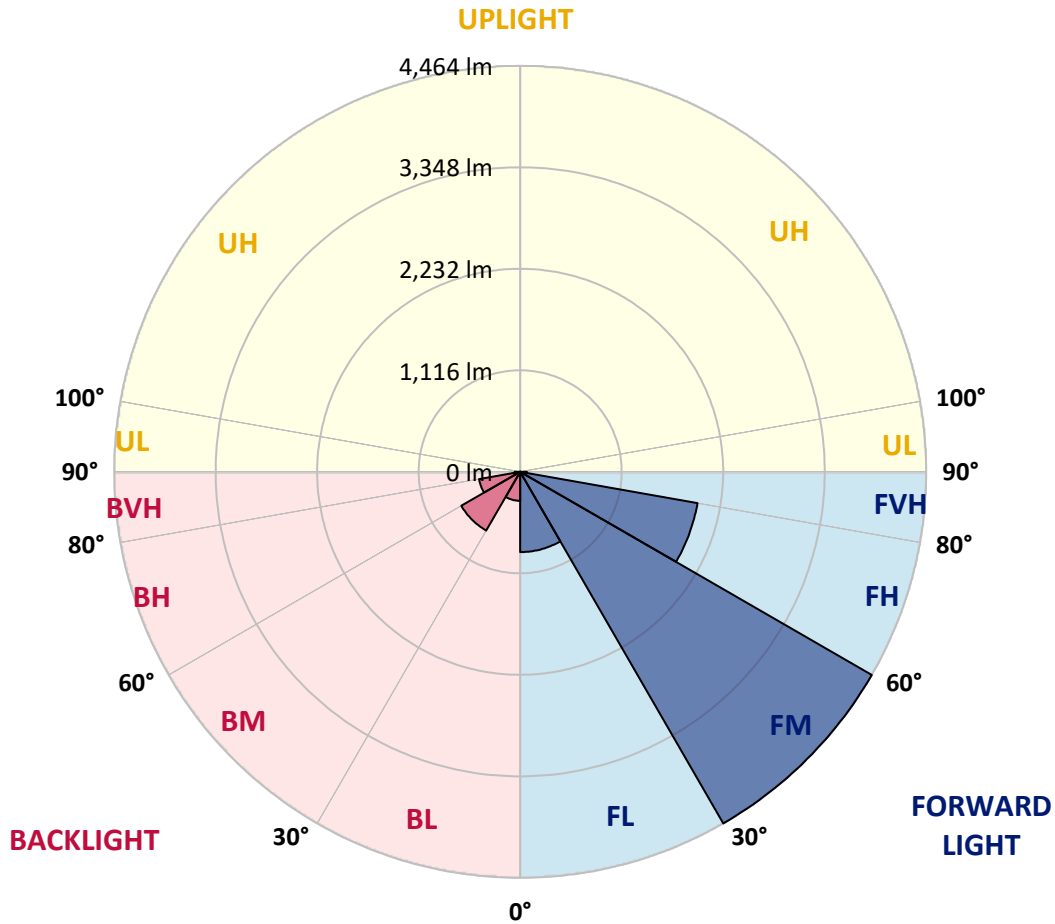
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	882.7	9.8			
FM (30°-60°)	4464.3	49.7			
FH (60°-80°)	1979.8	22.0			G2/5000
FVH (80°-90°)	74.4	0.8			G1/100
BL (0°-30°)	318.9	3.5	B1/500		
BM (30°-60°)	746.5	8.3	B1/1000		
BH (60°-80°)	458.6	5.1	B1/500		G1/500
BVH (80°-90°)	61.0	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°	783.3	783.3	783.3	783.3	783.3	783.3	783.3	783.3	783.3	783.3	783.3
2.5°	1001.5	972.4	972.4	940.9	943.3	916.7	887.6	858.5	826.9	802.7	790.6
5°	1309.5	1287.7	1280.4	1244.0	1185.8	1120.4	1050.0	977.3	902.1	843.9	814.8
7.5°	1598.1	1581.1	1571.4	1530.2	1450.2	1379.8	1268.3	1134.9	1006.4	897.3	853.6
10°	1811.5	1799.4	1780.0	1760.6	1702.4	1641.7	1503.5	1314.4	1125.2	962.7	897.3
12.5°	1966.7	1949.7	1949.7	1947.3	1908.5	1852.7	1724.2	1520.5	1263.4	1035.5	945.8
15°	2071.0	2068.5	2075.8	2090.4	2080.7	2044.3	1915.8	1709.6	1404.1	1117.9	1001.5
17.5°	2148.6	2138.9	2153.4	2192.2	2221.3	2206.8	2100.1	1891.5	1559.3	1207.7	1062.2
20°	2233.4	2214.0	2233.4	2281.9	2318.3	2340.1	2289.2	2066.1	1726.6	1304.7	1120.4
22.5°	2395.9	2393.5	2383.8	2398.3	2422.6	2461.4	2432.3	2243.1	1889.1	1401.7	1188.3
25°	2686.9	2660.2	2633.6	2602.0	2575.4	2587.5	2563.2	2408.0	2037.0	1508.4	1246.5
27.5°	3011.9	2982.8	2934.3	2856.7	2783.9	2740.3	2689.3	2551.1	2180.1	1605.4	1302.2
30°	3310.1	3300.4	3227.7	3142.8	3016.7	2936.7	2839.7	2716.0	2352.3	1712.1	1360.4
32.5°	3589.0	3569.6	3496.9	3407.1	3259.2	3169.5	3036.1	2895.5	2548.7	1843.0	1421.1
35°	3829.1	3809.7	3724.8	3610.8	3482.3	3404.7	3251.9	3055.5	2728.1	1957.0	1472.0
37.5°	4011.0	3989.2	3909.1	3797.6	3683.6	3647.2	3516.3	3259.2	2931.8	2100.1	1535.0
40°	4112.8	4086.2	4032.8	3955.2	3860.6	3843.7	3787.9	3511.4	3188.9	2274.7	1627.2
42.5°	4125.0	4100.7	4071.6	4064.3	4057.1	4071.6	4098.3	3797.6	3482.3	2507.5	1763.0
45°	4018.3	4003.7	4006.1	4088.6	4202.6	4335.9	4496.0	4219.5	3877.6	2951.2	2068.5
47.5°	3790.3	3783.0	3836.4	3974.6	4229.2	4532.4	4985.8	4942.2	4813.7	3666.6	2461.4
50°	3421.7	3409.6	3523.5	3741.8	4105.6	4597.8	5315.6	5793.4	5900.1	4222.0	2718.4
52.5°	2893.0	2907.6	3084.6	3382.9	3821.8	4527.5	5451.4	6142.6	6423.9	4631.8	2914.9
55°	2352.3	2330.4	2490.5	2859.1	3402.3	4270.5	5478.1	6343.8	6763.4	5010.1	3106.4
57.5°	1714.5	1767.8	1937.6	2272.2	2861.5	3804.9	5322.9	6482.1	7219.3	5388.4	3283.5
60°	1161.6	1161.6	1311.9	1646.6	2211.6	3239.8	4908.2	6431.1	7617.0	5684.2	3322.3
62.5°	739.6	732.4	853.6	1091.3	1583.5	2517.2	4287.4	6111.0	7757.6	5754.6	3159.8
65°	468.0	477.7	521.4	666.9	1013.7	1787.2	3441.1	5473.3	7527.3	5592.1	2876.1
67.5°	375.9	378.3	400.1	460.8	623.2	1147.0	2551.1	4593.0	6976.8	5182.3	2543.8
70°	332.2	337.1	341.9	363.8	426.8	725.1	1675.7	3698.2	6074.7	4469.3	2187.4
72.5°	303.1	308.0	312.8	317.7	351.6	472.9	989.4	2803.3	4901.0	3433.8	1668.4
75°	278.9	283.7	283.7	286.2	305.6	351.6	543.2	1932.7	3412.0	2136.4	1040.3
77.5°	249.8	252.2	252.2	257.1	276.5	276.5	337.1	1195.5	1893.9	967.6	526.2
80°	211.0	215.8	215.8	223.1	242.5	213.4	225.5	611.1	785.7	397.7	235.2
82.5°	155.2	164.9	169.8	181.9	194.0	162.5	162.5	308.0	332.2	177.0	126.1
85°	84.9	87.3	126.1	135.8	143.1	97.0	109.1	152.8	164.9	77.6	63.1
87.5°	24.3	26.7	60.6	75.2	67.9	41.2	46.1	58.2	58.2	21.8	17.0
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	783.3	783.3	783.3	783.3	783.3	783.3	783.3	783.3	783.3	783.3
2.5°	780.9	761.5	744.5	732.4	720.2	713.0	710.5	705.7	705.7	708.1
5°	790.6	756.6	729.9	715.4	705.7	700.8	698.4	698.4	700.8	700.8
7.5°	814.8	763.9	739.6	727.5	717.8	713.0	713.0	710.5	713.0	713.0
10°	848.8	785.7	759.0	744.5	737.2	729.9	727.5	725.1	725.1	725.1
12.5°	885.1	810.0	780.9	763.9	751.8	742.1	737.2	732.4	729.9	729.9
15°	919.1	834.2	795.4	776.0	759.0	744.5	734.8	727.5	725.1	725.1
17.5°	955.5	851.2	805.1	778.4	756.6	737.2	725.1	715.4	710.5	710.5
20°	994.3	863.3	805.1	771.2	742.1	722.7	708.1	698.4	688.7	688.7
22.5°	1025.8	868.2	795.4	754.2	725.1	700.8	686.3	674.2	666.9	666.9
25°	1052.5	863.3	773.6	727.5	693.6	671.7	657.2	647.5	640.2	640.2
27.5°	1069.4	843.9	746.9	698.4	666.9	645.1	635.4	625.7	620.8	620.8
30°	1079.1	819.7	713.0	666.9	635.4	623.2	618.4	608.7	601.4	599.0
32.5°	1084.0	783.3	679.0	635.4	613.5	608.7	608.7	596.6	586.9	584.4
35°	1079.1	744.5	645.1	608.7	601.4	603.8	599.0	584.4	572.3	567.5
37.5°	1071.9	698.4	608.7	589.3	596.6	601.4	586.9	567.5	548.1	543.2
40°	1067.0	657.2	579.6	569.9	591.7	594.1	567.5	531.1	516.5	511.7
42.5°	1091.3	616.0	552.9	555.3	579.6	582.0	533.5	516.5	506.8	504.4
45°	1173.7	579.6	531.1	545.6	565.0	555.3	516.5	514.1	506.8	504.4
47.5°	1236.8	552.9	521.4	538.4	552.9	519.0	514.1	511.7	504.4	502.0
50°	1258.6	535.9	519.0	533.5	535.9	502.0	509.3	509.3	502.0	499.6
52.5°	1261.0	526.2	523.8	531.1	509.3	494.7	504.4	504.4	497.1	494.7
55°	1270.7	521.4	526.2	531.1	480.2	485.0	494.7	497.1	489.9	487.4
57.5°	1251.3	514.1	531.1	533.5	468.0	475.3	485.0	485.0	485.0	485.0
60°	1176.1	499.6	528.7	528.7	458.3	463.2	472.9	477.7	480.2	480.2
62.5°	1037.9	470.5	514.1	514.1	448.6	453.5	465.6	465.6	472.9	472.9
65°	863.3	429.2	485.0	482.6	438.9	443.8	458.3	453.5	465.6	468.0
67.5°	720.2	378.3	441.4	446.2	429.2	441.4	451.1	434.1	458.3	458.3
70°	574.7	317.7	383.2	405.0	412.3	443.8	436.5	409.8	441.4	434.1
72.5°	446.2	269.2	315.3	354.1	392.9	441.4	405.0	375.9	395.3	383.2
75°	325.0	223.1	259.5	293.4	366.2	434.1	373.5	329.8	329.8	325.0
77.5°	228.0	181.9	208.6	232.8	339.5	414.7	334.7	283.7	271.6	269.2
80°	155.2	143.1	164.9	179.5	300.7	375.9	288.6	235.2	213.4	208.6
82.5°	101.9	101.9	111.6	121.3	232.8	312.8	225.5	174.6	225.5	215.8
85°	58.2	60.6	60.6	70.3	128.5	220.7	160.1	174.6	104.3	97.0
87.5°	19.4	19.4	19.4	19.4	26.7	89.7	67.9	63.1	24.3	21.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)