

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: P573383

Luminaire Tested: **ARCH-S-PA2-70-730-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573383
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-PA2-70-730-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 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: 9785 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

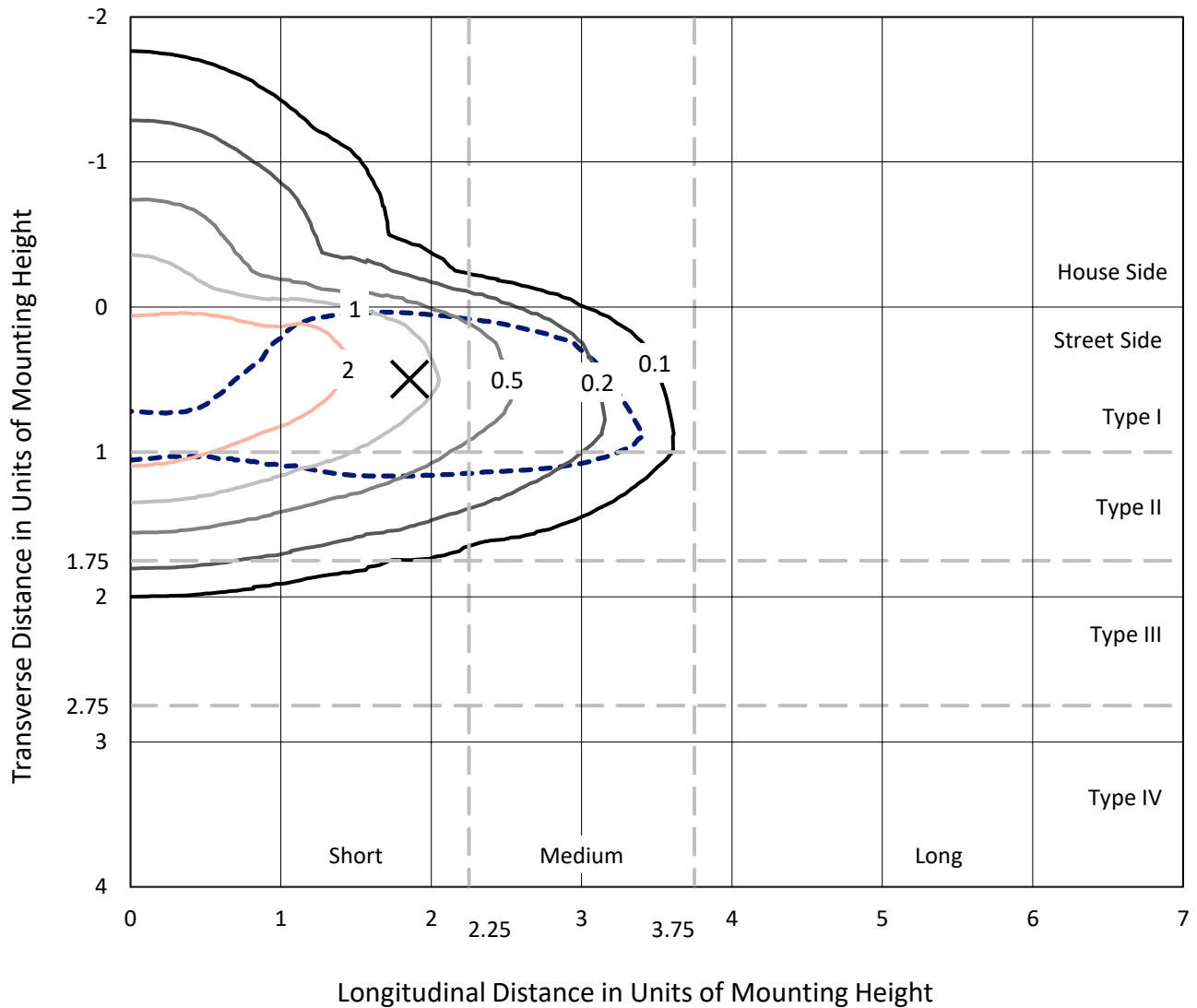
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

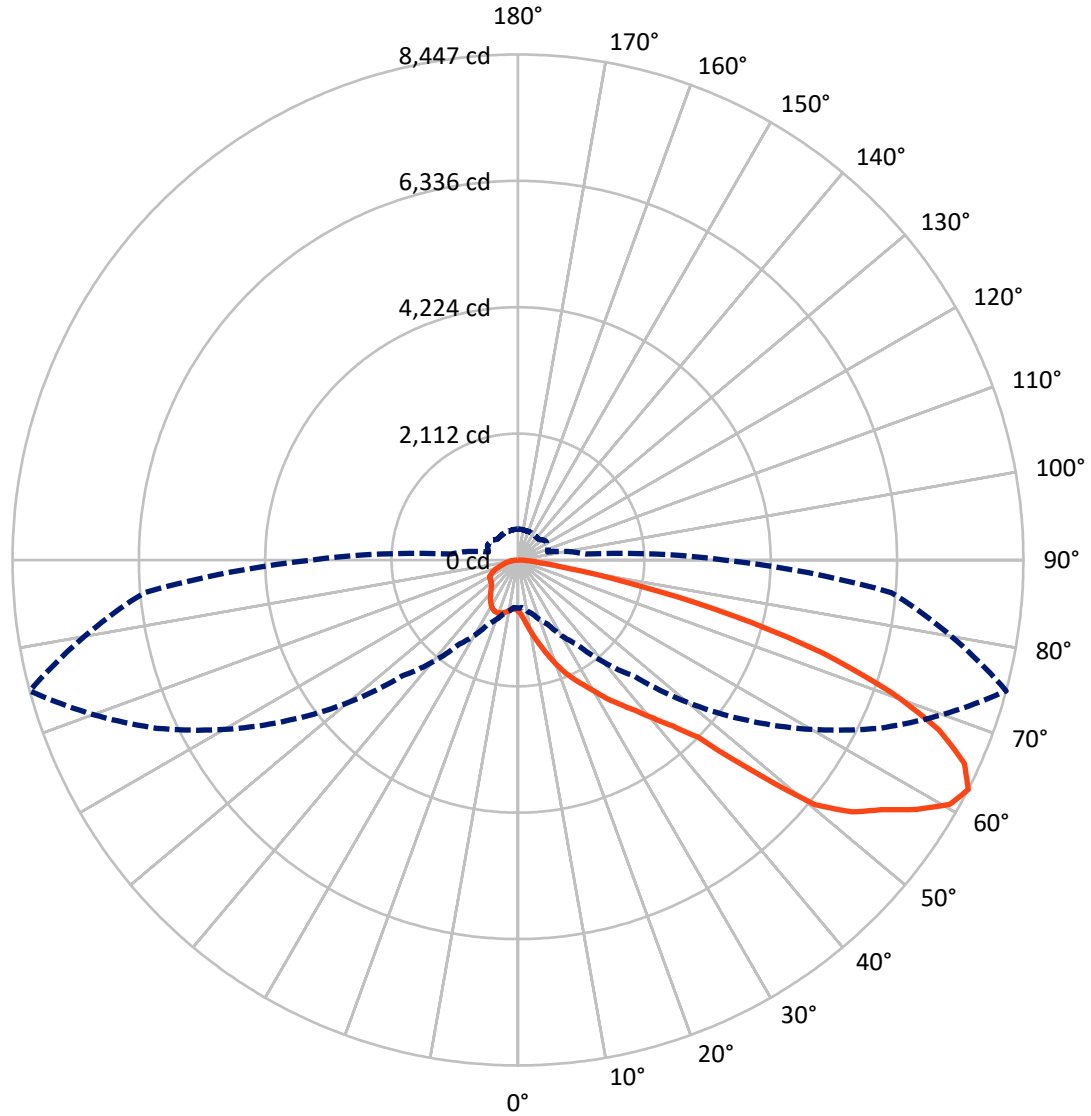
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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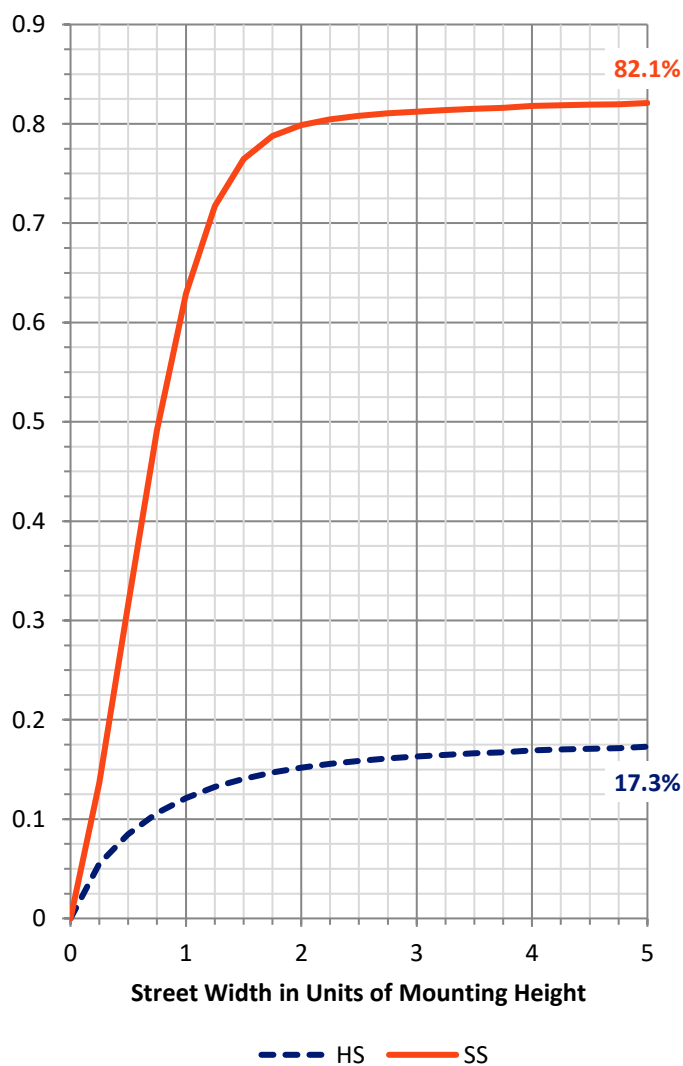
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1725.8	0.0	1725.8
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	8059.2	0.0	8059.2
	% Fixture	82.4	0.0	82.4
Total	Lumens	9785.0	0.0	9785.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	1.0
10°-20°	404.9	4.1
20°-30°	801.1	8.2
30°-40°	1335.2	13.6
40°-50°	1970.3	20.1
50°-60°	2368.5	24.2
60°-70°	1840.8	18.8
70°-80°	814.3	8.3
80°-90°	147.4	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°	9785.0	100.0
0°-180°	9785.0	100.0

Coefficient of Utilization



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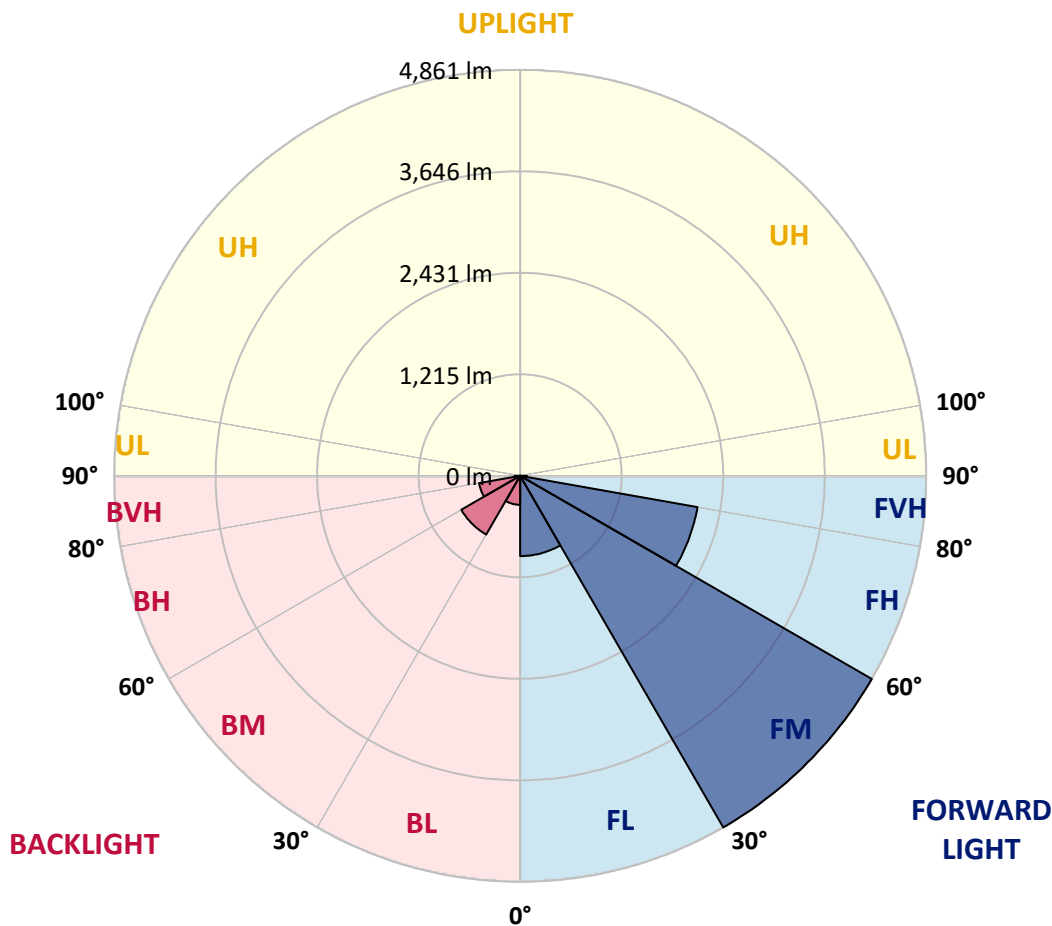
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	961.1	9.8			
FM (30°-60°)	4861.2	49.7			
FH (60°-80°)	2155.8	22.0			G2/5000
FVH (80°-90°)	81.0	0.8			G1/100
BL (0°-30°)	347.3	3.5	B1/500		
BM (30°-60°)	812.8	8.3	B1/1000		
BH (60°-80°)	499.3	5.1	B1/500		G1/500
BVH (80°-90°)	66.4	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	852.9	852.9	852.9	852.9	852.9	852.9	852.9	852.9	852.9	852.9	852.9
2.5°	1090.6	1058.9	1058.9	1024.6	1027.2	998.2	966.5	934.8	900.5	874.1	860.8
5°	1425.9	1402.2	1394.3	1354.6	1291.3	1220.0	1143.4	1064.2	982.3	918.9	887.3
7.5°	1740.2	1721.7	1711.1	1666.2	1579.1	1502.5	1381.1	1235.8	1095.9	977.0	929.5
10°	1972.6	1959.4	1938.2	1917.1	1853.7	1787.7	1637.2	1431.2	1225.3	1048.3	977.0
12.5°	2141.6	2123.1	2123.1	2120.4	2078.2	2017.4	1877.5	1655.7	1375.8	1127.6	1029.8
15°	2255.1	2252.5	2260.4	2276.2	2265.7	2226.1	2086.1	1861.7	1528.9	1217.3	1090.6
17.5°	2339.6	2329.0	2344.9	2387.1	2418.8	2403.0	2286.8	2059.7	1697.9	1315.0	1156.6
20°	2432.0	2410.9	2432.0	2484.8	2524.5	2548.2	2492.8	2249.8	1880.1	1420.7	1220.0
22.5°	2609.0	2606.3	2595.7	2611.6	2638.0	2680.2	2648.6	2442.6	2057.1	1526.3	1293.9
25°	2925.8	2896.8	2867.7	2833.4	2804.4	2817.6	2791.2	2622.2	2218.1	1642.5	1357.3
27.5°	3279.7	3248.0	3195.2	3110.7	3031.5	2983.9	2928.5	2778.0	2373.9	1748.1	1418.0
30°	3604.5	3593.9	3514.7	3422.3	3285.0	3197.8	3092.2	2957.5	2561.4	1864.3	1481.4
32.5°	3908.1	3887.0	3807.8	3710.1	3549.0	3451.3	3306.1	3152.9	2775.3	2006.9	1547.4
35°	4169.6	4148.4	4056.0	3931.9	3792.0	3707.5	3541.1	3327.2	2970.7	2131.0	1602.9
37.5°	4367.6	4343.9	4256.7	4135.2	4011.1	3971.5	3828.9	3549.0	3192.5	2286.8	1671.5
40°	4478.5	4449.5	4391.4	4306.9	4203.9	4185.4	4124.7	3823.6	3472.4	2476.9	1771.9
42.5°	4491.7	4465.3	4433.6	4425.7	4417.8	4433.6	4462.7	4135.2	3792.0	2730.4	1919.7
45°	4375.5	4359.7	4362.3	4452.1	4576.2	4721.5	4895.7	4594.7	4222.4	3213.7	2252.5
47.5°	4127.3	4119.4	4177.5	4328.0	4605.3	4935.4	5429.2	5381.6	5241.7	3992.6	2680.2
50°	3725.9	3712.7	3836.8	4074.5	4470.6	5006.7	5788.3	6308.5	6424.7	4597.4	2960.2
52.5°	3150.3	3166.1	3358.9	3683.7	4161.6	4930.1	5936.2	6688.7	6995.1	5043.6	3174.0
55°	2561.4	2537.7	2711.9	3113.3	3704.8	4650.2	5965.2	6907.9	7364.7	5455.6	3382.7
57.5°	1866.9	1925.0	2109.9	2474.3	3116.0	4143.2	5796.2	7058.4	7861.2	5867.5	3575.4
60°	1264.9	1264.9	1428.6	1793.0	2408.3	3527.9	5344.7	7003.0	8294.2	6189.7	3617.7
62.5°	805.4	797.5	929.5	1188.3	1724.3	2741.0	4668.7	6654.4	8447.4	6266.2	3440.8
65°	509.6	520.2	567.7	726.2	1103.8	1946.2	3747.1	5959.9	8196.5	6089.3	3131.8
67.5°	409.3	411.9	435.7	501.7	678.6	1249.0	2778.0	5001.4	7597.1	5643.0	2770.0
70°	361.8	367.0	372.3	396.1	464.8	789.6	1824.7	4027.0	6614.8	4866.7	2381.9
72.5°	330.1	335.4	340.6	345.9	382.9	514.9	1077.4	3052.6	5336.7	3739.1	1816.8
75°	303.7	309.0	309.0	311.6	332.7	382.9	591.5	2104.6	3715.4	2326.4	1132.8
77.5°	272.0	274.6	274.6	279.9	301.0	301.0	367.0	1301.8	2062.3	1053.6	573.0
80°	229.7	235.0	235.0	242.9	264.1	232.4	245.6	665.4	855.6	433.1	256.1
82.5°	169.0	179.6	184.8	198.0	211.3	176.9	176.9	335.4	361.8	192.8	137.3
85°	92.4	95.1	137.3	147.9	155.8	105.6	118.8	166.4	179.6	84.5	68.7
87.5°	26.4	29.0	66.0	81.9	73.9	44.9	50.2	63.4	63.4	23.8	18.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	852.9	852.9	852.9	852.9	852.9	852.9	852.9	852.9	852.9	852.9
2.5°	850.3	829.2	810.7	797.5	784.3	776.3	773.7	768.4	768.4	771.1
5°	860.8	823.9	794.8	779.0	768.4	763.1	760.5	760.5	763.1	763.1
7.5°	887.3	831.8	805.4	792.2	781.6	776.3	776.3	773.7	776.3	776.3
10°	924.2	855.6	826.5	810.7	802.8	794.8	792.2	789.6	789.6	789.6
12.5°	963.8	882.0	850.3	831.8	818.6	808.0	802.8	797.5	794.8	794.8
15°	1000.8	908.4	866.1	845.0	826.5	810.7	800.1	792.2	789.6	789.6
17.5°	1040.4	926.9	876.7	847.6	823.9	802.8	789.6	779.0	773.7	773.7
20°	1082.7	940.1	876.7	839.7	808.0	786.9	771.1	760.5	749.9	749.9
22.5°	1117.0	945.3	866.1	821.2	789.6	763.1	747.3	734.1	726.2	726.2
25°	1146.0	940.1	842.4	792.2	755.2	731.5	715.6	705.1	697.1	697.1
27.5°	1164.5	918.9	813.3	760.5	726.2	702.4	691.8	681.3	676.0	676.0
30°	1175.1	892.5	776.3	726.2	691.8	678.6	673.4	662.8	654.9	652.2
32.5°	1180.4	852.9	739.4	691.8	668.1	662.8	662.8	649.6	639.0	636.4
35°	1175.1	810.7	702.4	662.8	654.9	657.5	652.2	636.4	623.2	617.9
37.5°	1167.2	760.5	662.8	641.7	649.6	654.9	639.0	617.9	596.8	591.5
40°	1161.9	715.6	631.1	620.6	644.3	647.0	617.9	578.3	562.5	557.2
42.5°	1188.3	670.7	602.1	604.7	631.1	633.8	580.9	562.5	551.9	549.3
45°	1278.1	631.1	578.3	594.1	615.3	604.7	562.5	559.8	551.9	549.3
47.5°	1346.7	602.1	567.7	586.2	602.1	565.1	559.8	557.2	549.3	546.6
50°	1370.5	583.6	565.1	580.9	583.6	546.6	554.5	554.5	546.6	544.0
52.5°	1373.1	573.0	570.4	578.3	554.5	538.7	549.3	549.3	541.3	538.7
55°	1383.7	567.7	573.0	578.3	522.8	528.1	538.7	541.3	533.4	530.8
57.5°	1362.6	559.8	578.3	580.9	509.6	517.6	528.1	528.1	528.1	528.1
60°	1280.7	544.0	575.7	575.7	499.1	504.4	514.9	520.2	522.8	522.8
62.5°	1130.2	512.3	559.8	559.8	488.5	493.8	507.0	507.0	514.9	514.9
65°	940.1	467.4	528.1	525.5	478.0	483.2	499.1	493.8	507.0	509.6
67.5°	784.3	411.9	480.6	485.9	467.4	480.6	491.2	472.7	499.1	499.1
70°	625.8	345.9	417.2	441.0	448.9	483.2	475.3	446.3	480.6	472.7
72.5°	485.9	293.1	343.3	385.5	427.8	480.6	441.0	409.3	430.4	417.2
75°	353.8	242.9	282.5	319.5	398.7	472.7	406.7	359.1	359.1	353.8
77.5°	248.2	198.0	227.1	253.5	369.7	451.5	364.4	309.0	295.8	293.1
80°	169.0	155.8	179.6	195.4	327.4	409.3	314.2	256.1	232.4	227.1
82.5°	110.9	110.9	121.5	132.0	253.5	340.6	245.6	190.1	245.6	235.0
85°	63.4	66.0	66.0	76.6	140.0	240.3	174.3	190.1	113.5	105.6
87.5°	21.1	21.1	21.1	21.1	29.0	97.7	73.9	68.7	26.4	23.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)