

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: P572889

Luminaire Tested: **ARCH-S-PA2-130-727-U-T2U-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572889  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-130-727-U-T2U-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

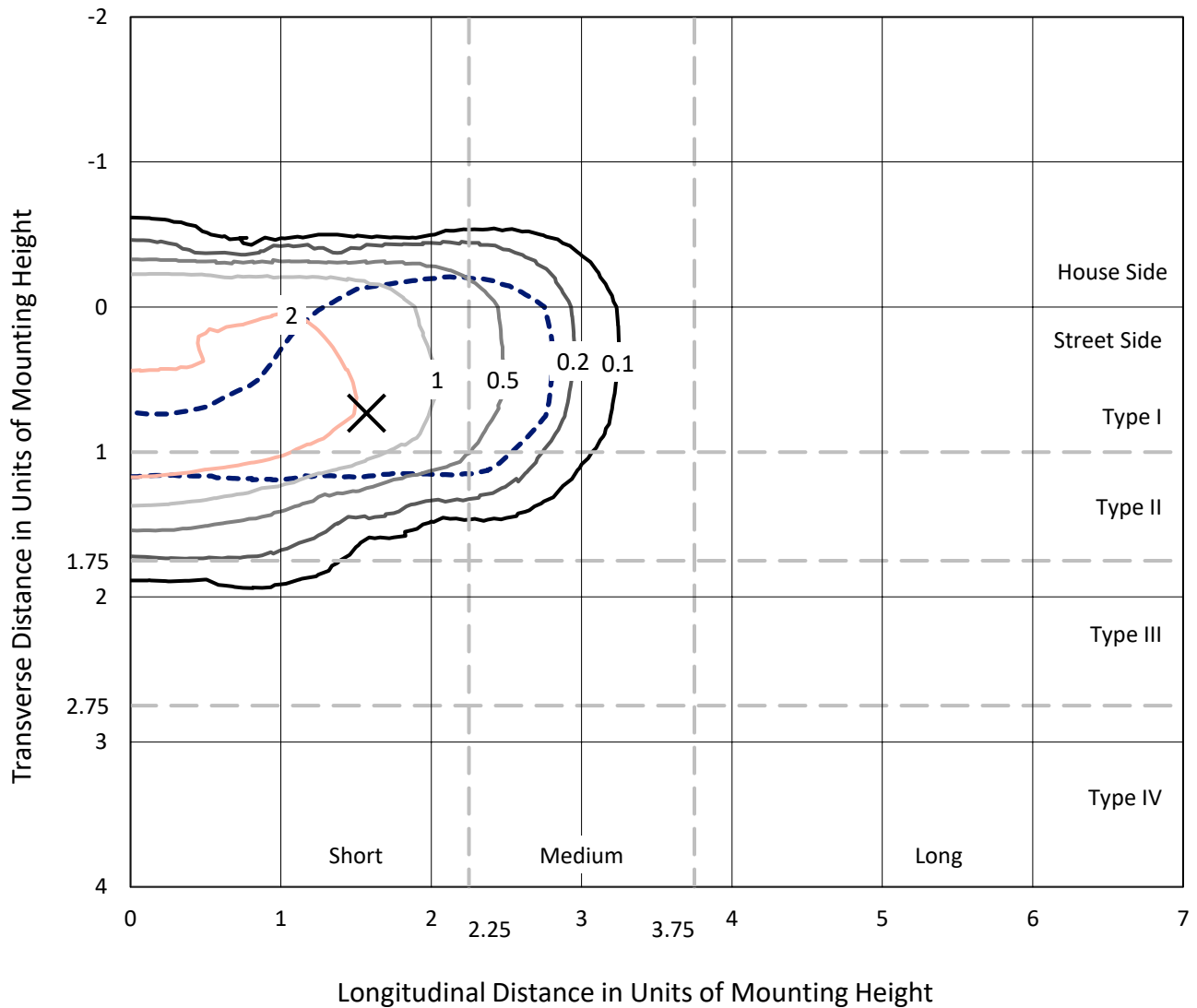
Lumens per Lamp: N/A  
Luminaire Lumens: 9314 lumens  
Efficiency: N/A  
Efficacy: 70.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 131.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

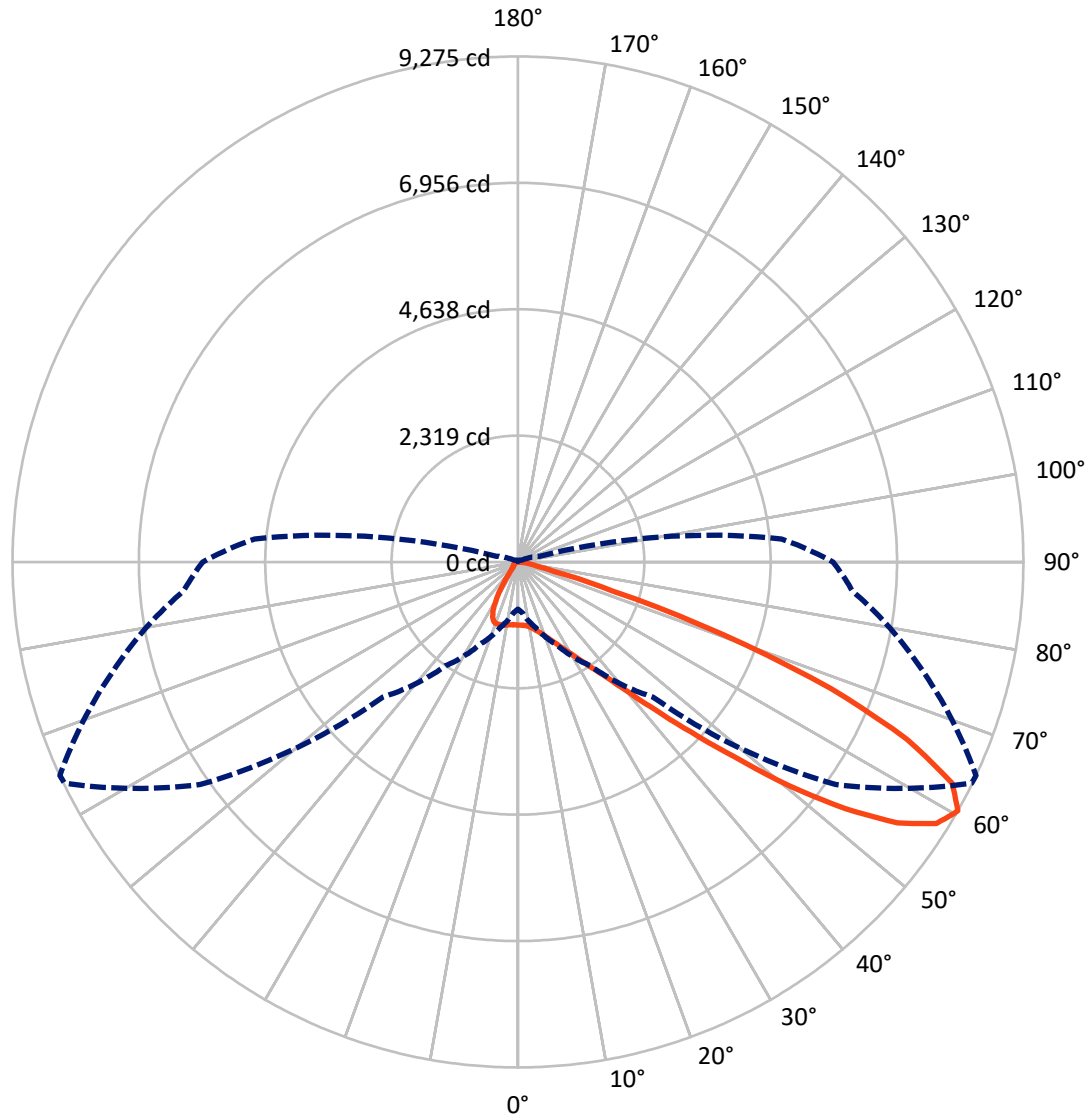
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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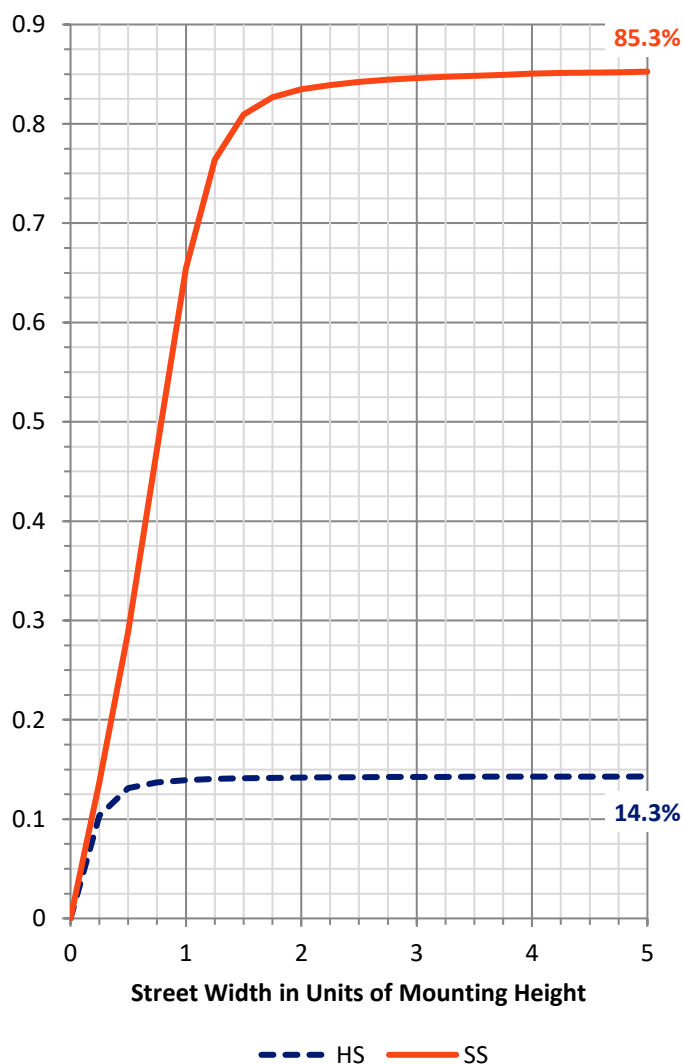
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1348.4	0.0	1348.4
	% Fixture	14.5	0.0	14.5
<b>Street Side</b>	Lumens	7965.6	0.0	7965.6
	% Fixture	85.5	0.0	85.5
<b>Total</b>	Lumens	9314.0	0.0	9314.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.7	1.2
10°-20°	311.1	3.3
20°-30°	528.5	5.7
30°-40°	1090.5	11.7
40°-50°	2193.1	23.5
50°-60°	2683.7	28.8
60°-70°	1898.6	20.4
70°-80°	457.5	4.9
80°-90°	41.3	0.4
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°	9314.0	100.0
0°-180°	9314.0	100.0

**Coefficient of Utilization**



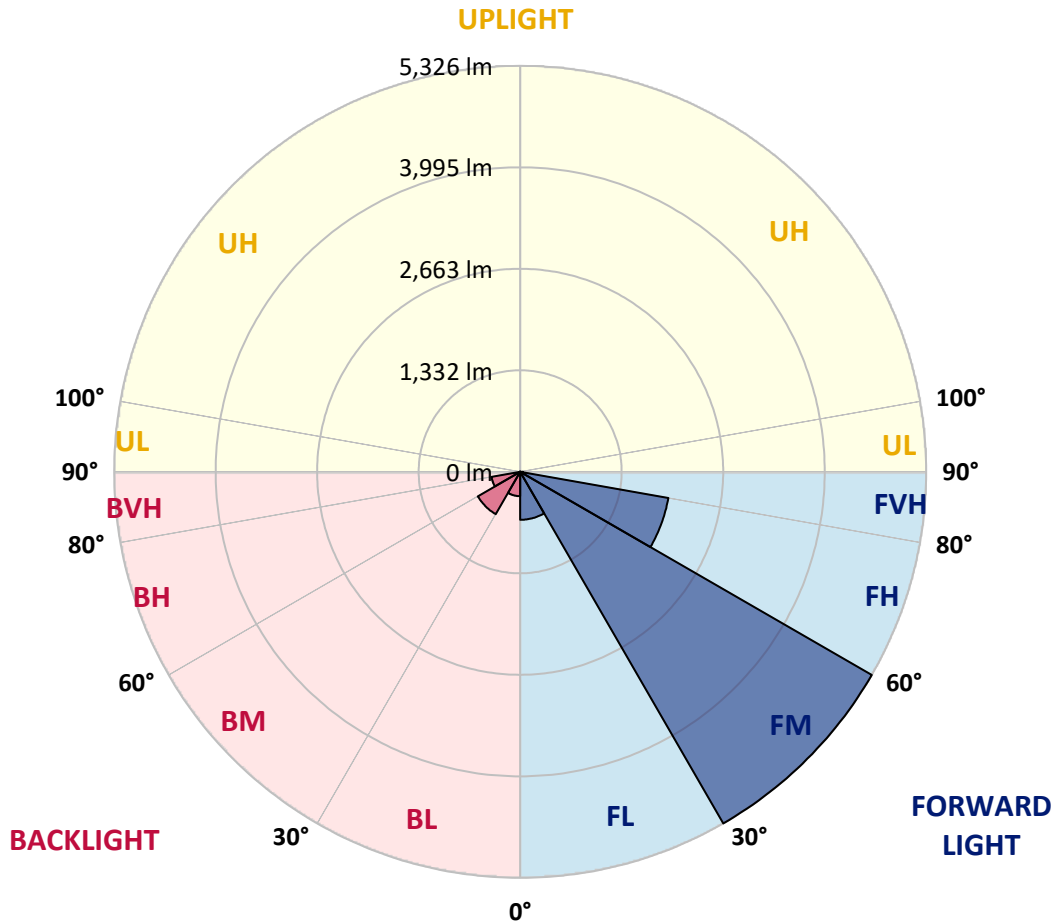
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	629.6	6.8			
FM (30°-60°)	5326.2	57.2			
FH (60°-80°)	1973.9	21.2			G2/5000
FVH (80°-90°)	36.0	0.4			G1/100
BL (0°-30°)	319.7	3.4	B1/500		
BM (30°-60°)	641.1	6.9	B1/1000		
BH (60°-80°)	382.2	4.1	B1/500		G1/500
BVH (80°-90°)	5.4	0.1			G0/10
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°	64°	65°	75°	85°
0°	1160.3	1160.3	1160.3	1160.3	1160.3	1160.3	1160.3	1160.3	1160.3	1160.3	1160.3
2.5°	1164.0	1160.3	1160.3	1160.3	1164.0	1164.0	1167.6	1160.3	1160.3	1160.3	1160.3
5°	1156.6	1152.9	1152.9	1156.6	1160.3	1160.3	1167.6	1167.6	1167.6	1171.3	1171.3
7.5°	1171.3	1164.0	1164.0	1167.6	1171.3	1171.3	1178.7	1182.3	1182.3	1189.7	1193.3
10°	1189.7	1186.0	1186.0	1193.3	1200.7	1200.7	1211.7	1211.7	1211.7	1219.0	1222.7
12.5°	1215.4	1211.7	1211.7	1222.7	1233.7	1241.1	1248.4	1252.1	1255.8	1255.8	1255.8
15°	1252.1	1248.4	1248.4	1259.4	1274.1	1292.5	1303.5	1303.5	1310.8	1307.2	1292.5
17.5°	1303.5	1299.8	1303.5	1310.8	1329.2	1347.6	1369.6	1373.3	1369.6	1362.2	1340.2
20°	1387.9	1376.9	1384.3	1402.6	1402.6	1413.6	1443.0	1454.0	1457.7	1435.7	1395.3
22.5°	1476.1	1476.1	1483.4	1505.4	1490.8	1505.4	1531.1	1549.5	1556.8	1538.5	1472.4
25°	1641.3	1648.6	1637.6	1630.3	1593.6	1600.9	1634.0	1670.7	1670.7	1656.0	1560.5
27.5°	2004.8	1997.5	1920.4	1813.9	1718.4	1725.8	1758.8	1806.5	1810.2	1777.2	1648.6
30°	2526.2	2533.5	2383.0	2140.7	1931.4	1876.3	1913.0	1968.1	1975.4	1920.4	1762.5
32.5°	3341.3	3278.9	2999.9	2676.7	2283.9	2085.6	2100.3	2159.0	2181.1	2133.3	1942.4
35°	4395.2	4248.3	3829.7	3429.5	2860.3	2460.1	2346.3	2408.7	2419.7	2394.0	2166.4
37.5°	5023.0	4905.5	4633.8	4270.3	3602.0	2959.5	2669.4	2731.8	2720.8	2669.4	2390.3
40°	5412.2	5346.2	5199.3	5030.4	4604.4	3745.2	3201.8	3150.4	3154.1	3080.6	2753.9
42.5°	5632.6	5573.8	5518.7	5562.8	5437.9	5169.9	3972.9	3737.9	3715.9	3576.3	3176.1
45°	5643.6	5555.4	5621.5	5878.6	6076.8	6433.0	4979.0	4435.5	4446.6	4215.2	3701.2
47.5°	5221.3	5151.5	5342.5	5845.5	6502.8	7259.2	6150.3	5390.2	5338.8	4883.5	4233.6
50°	4387.8	4384.1	4637.5	5349.8	6502.8	7685.1	7406.0	6510.1	6455.0	5581.1	4718.3
52.5°	3473.5	3543.3	3715.9	4391.5	5904.3	7644.7	8331.3	7666.7	7512.5	6201.7	5122.2
55°	2702.5	2676.7	2886.0	3352.4	4681.6	6947.1	8632.4	8577.3	8448.8	6752.5	5478.3
57.5°	1659.7	1755.1	2037.9	2452.8	3407.4	5463.7	8199.1	9131.8	9054.7	7266.5	5849.2
60°	862.9	936.3	1241.1	1674.3	2327.9	3502.9	7116.0	9260.3	9275.0	7681.4	6165.0
62.5°	543.4	539.8	679.3	1175.0	1498.1	1968.1	5526.1	8805.0	8944.5	8000.9	6466.1
65°	407.6	411.2	466.3	778.4	1017.1	1028.1	3278.9	7615.3	7846.7	8085.3	6568.9
67.5°	378.2	381.9	407.6	510.4	763.7	686.6	1443.0	5871.2	6194.3	7306.9	6172.3
70°	337.8	341.5	381.9	422.3	576.5	503.0	649.9	3536.0	3983.9	5302.1	4938.6
72.5°	264.4	271.7	319.4	400.2	429.6	381.9	451.6	1564.2	1824.9	2915.4	2827.3
75°	194.6	198.3	242.3	308.4	378.2	271.7	348.8	620.5	679.3	1094.2	932.6
77.5°	135.9	135.9	168.9	231.3	315.8	190.9	249.7	334.1	341.5	407.6	268.0
80°	84.5	88.1	106.5	157.9	194.6	183.6	154.2	224.0	224.0	213.0	110.2
82.5°	47.7	51.4	73.4	106.5	132.2	124.8	99.1	128.5	132.2	135.9	62.4
85°	22.0	25.7	44.1	66.1	77.1	58.7	58.7	66.1	66.1	88.1	36.7
87.5°	3.7	3.7	22.0	29.4	25.7	29.4	29.4	36.7	36.7	44.1	18.4
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1160.3	1160.3	1160.3	1160.3	1160.3	1160.3	1160.3	1160.3	1160.3	1160.3	1160.3
2.5°	1156.6	1156.6	1156.6	1152.9	1152.9	1149.3	1141.9	1141.9	1141.9	1141.9	1145.6
5°	1171.3	1167.6	1164.0	1152.9	1145.6	1130.9	1116.2	1112.6	1101.5	1101.5	1105.2
7.5°	1189.7	1189.7	1178.7	1160.3	1141.9	1116.2	1090.5	1072.2	1053.8	1050.1	1046.5
10°	1222.7	1215.4	1204.4	1171.3	1141.9	1101.5	1061.2	1013.4	976.7	958.3	951.0
12.5°	1248.4	1244.7	1222.7	1186.0	1138.3	1075.8	984.0	873.9	785.8	738.0	738.0
15°	1285.1	1277.8	1244.7	1193.3	1127.2	980.4	793.1	624.2	528.7	477.3	470.0
17.5°	1321.9	1307.2	1266.8	1197.0	1079.5	807.8	554.4	400.2	334.1	308.4	301.1
20°	1365.9	1340.2	1281.5	1200.7	962.0	587.5	359.8	268.0	242.3	231.3	235.0
22.5°	1424.7	1380.6	1296.1	1178.7	785.8	381.9	253.4	216.6	201.9	190.9	190.9
25°	1498.1	1435.7	1321.9	1116.2	569.1	257.0	201.9	179.9	165.2	157.9	154.2
27.5°	1564.2	1487.1	1347.6	1006.1	363.5	201.9	168.9	150.5	135.9	132.2	128.5
30°	1652.3	1545.8	1373.3	829.8	238.7	165.2	143.2	124.8	113.8	110.2	110.2
32.5°	1802.9	1659.7	1421.0	631.6	179.9	143.2	121.2	106.5	99.1	95.5	95.5
35°	1979.1	1799.2	1461.4	440.6	154.2	121.2	102.8	91.8	88.1	84.5	84.5
37.5°	2162.7	1964.4	1468.7	279.1	135.9	106.5	91.8	84.5	77.1	77.1	77.1
40°	2493.2	2254.5	1435.7	187.3	117.5	95.5	80.8	77.1	69.8	69.8	69.8
42.5°	2878.7	2607.0	1351.2	150.5	106.5	84.5	77.1	69.8	62.4	62.4	58.7
45°	3378.1	3007.2	1208.0	132.2	95.5	77.1	69.8	62.4	58.7	55.1	55.1
47.5°	3848.1	3462.5	1072.2	117.5	88.1	73.4	62.4	55.1	51.4	51.4	51.4
50°	4296.0	3811.3	914.3	110.2	80.8	69.8	58.7	51.4	47.7	44.1	44.1
52.5°	4619.1	4086.7	767.4	99.1	73.4	62.4	55.1	47.7	40.4	36.7	36.7
55°	4979.0	4365.8	635.2	88.1	69.8	58.7	47.7	40.4	33.0	29.4	29.4
57.5°	5382.9	4637.5	514.1	80.8	66.1	51.4	40.4	33.0	25.7	22.0	22.0
60°	5783.1	4854.1	411.2	73.4	58.7	47.7	36.7	25.7	18.4	14.7	14.7
62.5°	6183.3	5001.0	315.8	66.1	55.1	40.4	29.4	18.4	11.0	7.3	7.3
65°	6348.6	4960.6	235.0	58.7	47.7	33.0	25.7	18.4	11.0	7.3	7.3
67.5°	5889.6	4461.2	165.2	58.7	44.1	33.0	22.0	14.7	7.3	3.7	3.7
70°	4597.1	3444.2	121.2	58.7	44.1	33.0	22.0	14.7	7.3	3.7	3.7
72.5°	2607.0	1916.7	91.8	51.4	40.4	29.4	22.0	14.7	7.3	3.7	3.7
75°	929.0	616.9	69.8	47.7	36.7	25.7	22.0	14.7	7.3	3.7	3.7
77.5°	224.0	157.9	55.1	40.4	33.0	25.7	18.4	14.7	11.0	3.7	3.7
80°	91.8	66.1	44.1	33.0	25.7	22.0	18.4	14.7	7.3	3.7	3.7
82.5°	40.4	33.0	18.4	18.4	14.7	14.7	14.7	14.7	7.3	3.7	3.7
85°	18.4	14.7	7.3	7.3	3.7	3.7	3.7	7.3	7.3	3.7	3.7
87.5°	11.0	7.3	7.3	7.3	3.7	3.7	3.7	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)