

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: P573208

Luminaire Tested: **ARCH-S-PA2-50-722-U-T4W-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573208  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-50-722-U-T4W-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 520mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

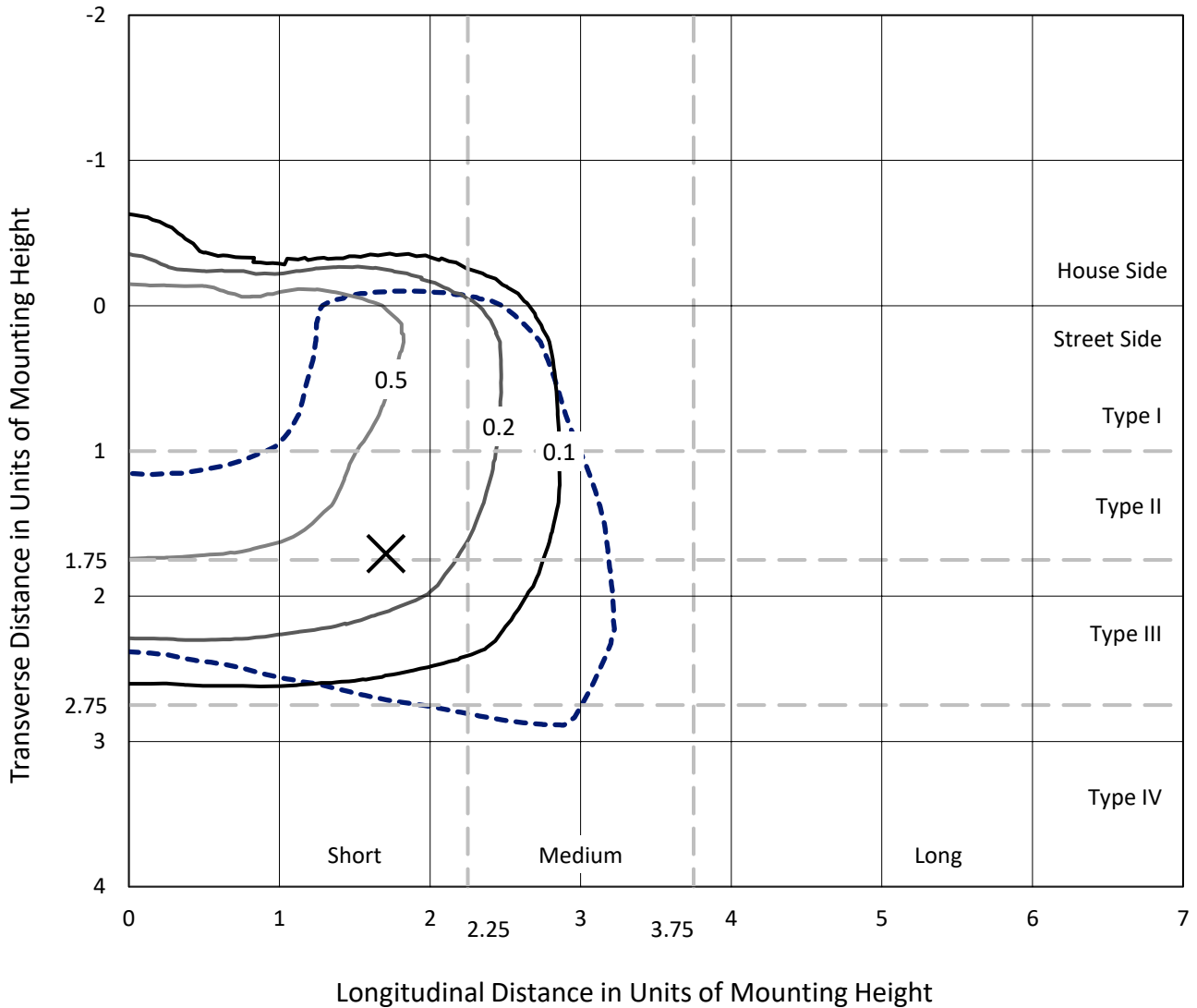
Lumens per Lamp: N/A  
Luminaire Lumens: 4319 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 53.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

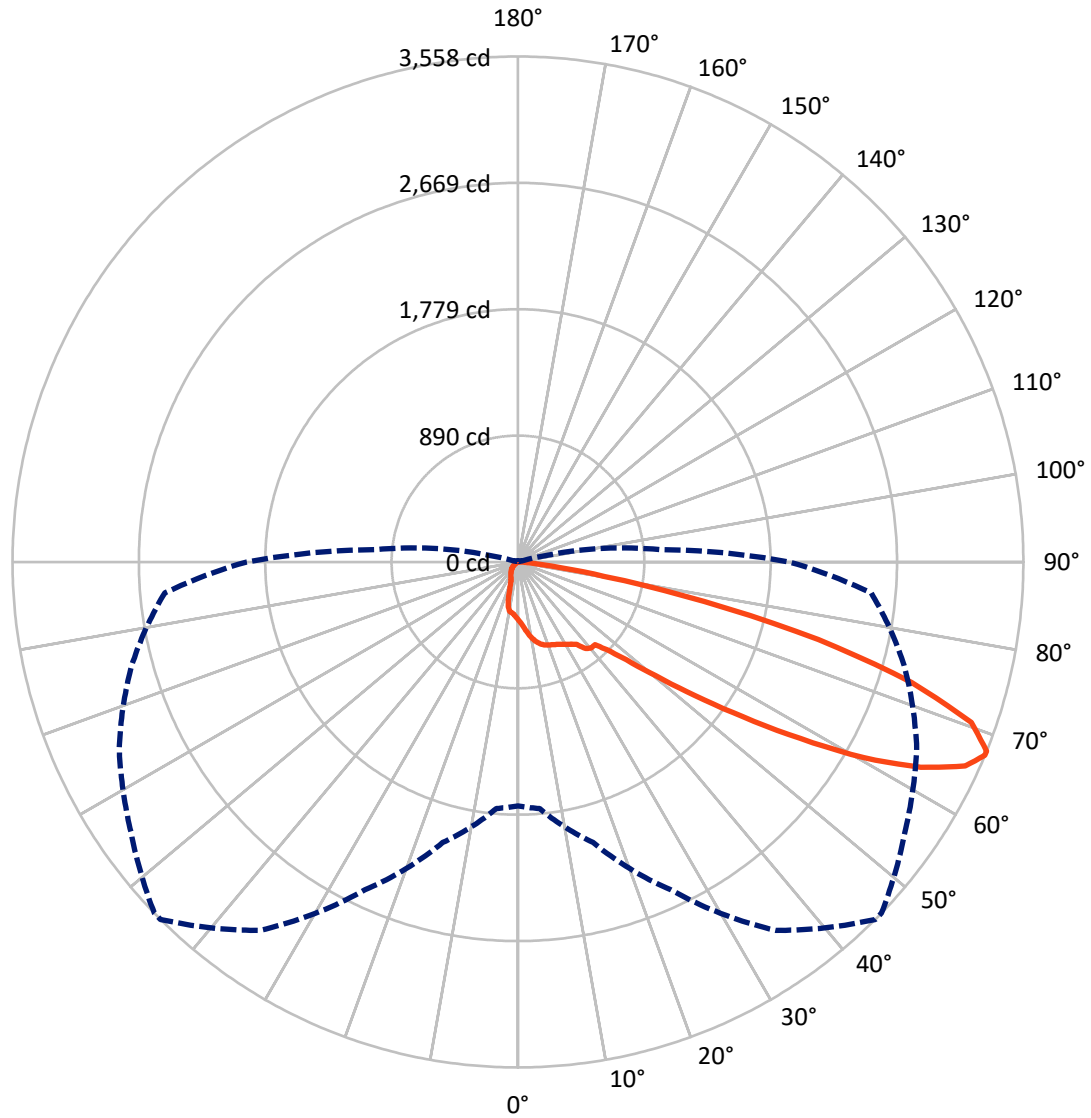
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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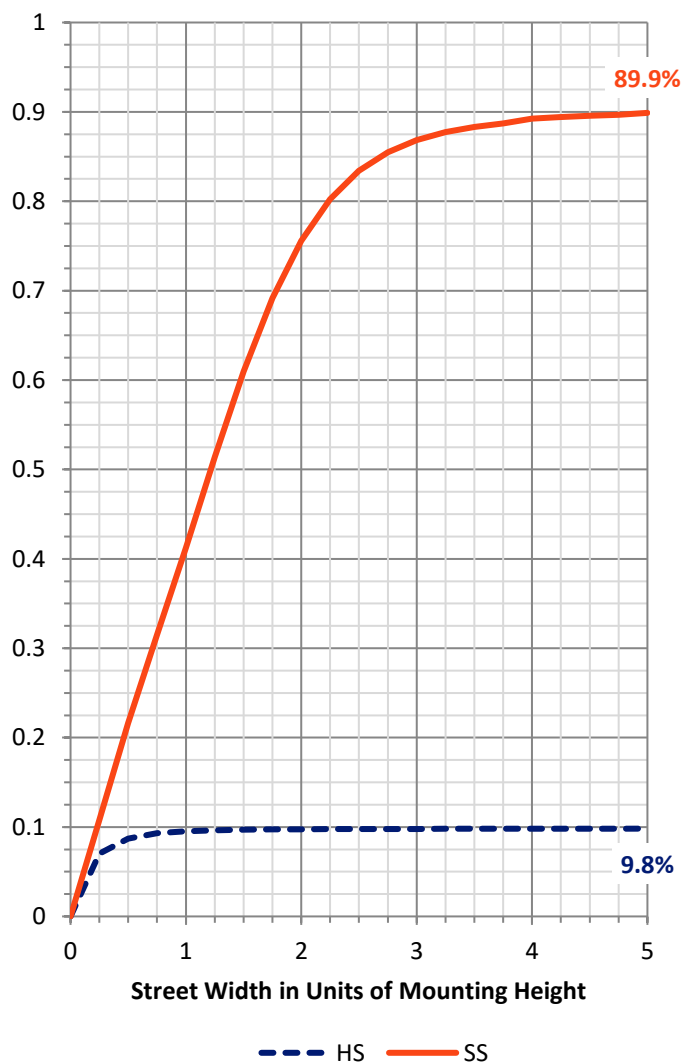
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	428.0	0.0	428.0
	% Fixture	9.9	0.0	9.9
<b>Street Side</b>	Lumens	3891.0	0.0	3891.0
	% Fixture	90.1	0.0	90.1
<b>Total</b>	Lumens	4319.0	0.0	4319.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.0	0.9
10°-20°	123.9	2.9
20°-30°	198.2	4.6
30°-40°	285.3	6.6
40°-50°	500.6	11.6
50°-60°	1054.7	24.4
60°-70°	1458.5	33.8
70°-80°	610.6	14.1
80°-90°	46.2	1.1
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°	4319.0	100.0
0°-180°	4319.0	100.0

**Coefficient of Utilization**



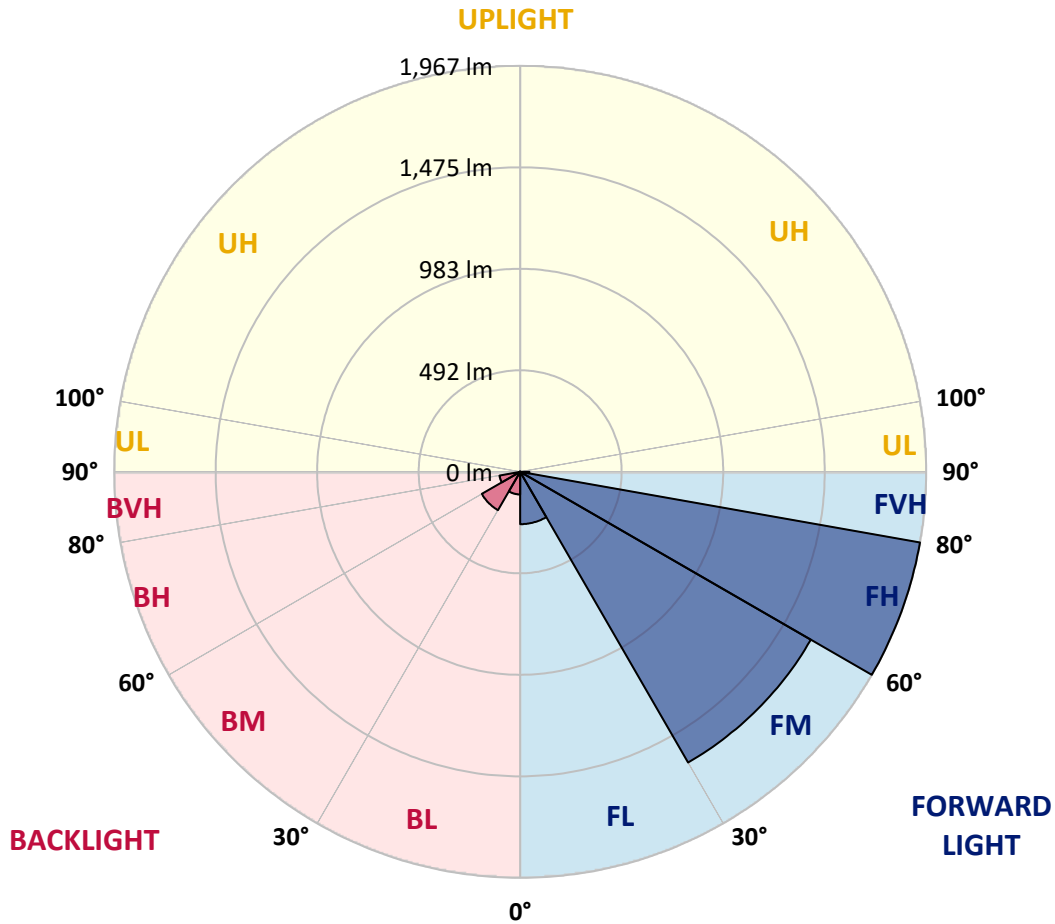
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	253.5	5.9			
FM (30°-60°)	1626.2	37.7			
FH (60°-80°)	1966.8	45.5			G2/5000
FVH (80°-90°)	44.6	1.0			G1/100
BL (0°-30°)	109.7	2.5	B0/110		
BM (30°-60°)	214.4	5.0	B0/220		
BH (60°-80°)	102.3	2.4	B0/110		G0/110
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5
2.5°	454.7	446.8	445.2	443.6	438.8	432.4	434.0	429.2	421.2	416.4	411.7
5°	510.6	502.6	499.4	489.8	480.3	465.9	465.9	453.1	438.8	426.0	413.2
7.5°	568.0	561.6	555.3	540.9	526.5	507.4	505.8	486.6	464.3	445.2	424.4
10°	615.9	611.1	603.1	585.6	566.4	545.7	540.9	523.3	494.6	469.1	442.0
12.5°	654.2	649.4	638.2	620.7	596.7	576.0	574.4	552.1	523.3	496.2	462.7
15°	682.9	674.9	662.2	643.0	619.1	599.9	596.7	577.6	550.5	520.1	480.3
17.5°	687.7	682.9	671.7	651.0	630.2	614.3	612.7	598.3	574.4	542.5	501.0
20°	674.9	673.3	663.7	647.8	631.8	623.9	622.3	612.7	593.5	564.8	523.3
22.5°	655.8	654.2	647.8	639.8	633.4	631.8	631.8	628.6	617.5	590.4	552.1
25°	643.0	641.4	638.2	633.4	633.4	643.0	644.6	647.8	638.2	617.5	576.0
27.5°	644.6	641.4	638.2	633.4	639.8	657.4	659.0	666.9	659.0	639.8	603.1
30°	666.9	662.2	652.6	641.4	649.4	673.3	674.9	684.5	678.1	668.5	633.4
32.5°	702.0	698.9	679.7	660.6	665.3	689.3	692.5	710.0	718.0	703.6	660.6
35°	753.1	741.9	718.0	698.9	695.7	713.2	718.0	746.7	767.5	732.4	676.5
37.5°	794.6	785.0	746.7	716.4	734.0	773.8	775.4	810.5	793.0	735.5	702.0
40°	935.0	933.4	866.4	770.7	751.5	796.2	802.6	808.9	801.0	772.2	757.9
42.5°	1161.6	1142.4	1067.4	920.6	789.8	794.6	797.8	831.3	872.8	860.0	864.8
45°	1407.3	1391.3	1306.8	1121.7	920.6	880.7	883.9	938.2	1018.0	1033.9	1059.4
47.5°	1633.8	1608.3	1560.4	1373.8	1144.0	1027.5	1033.9	1099.3	1231.8	1266.9	1306.8
50°	1825.3	1807.8	1763.1	1640.2	1418.4	1258.9	1265.3	1319.5	1491.8	1547.7	1598.7
52.5°	2102.9	2079.0	1992.8	1935.4	1767.9	1560.4	1546.1	1603.5	1801.4	1838.1	1906.7
55°	2358.2	2308.8	2257.7	2233.8	2163.6	1921.0	1916.3	1927.4	2091.8	2110.9	2233.8
57.5°	2466.7	2457.1	2500.2	2580.0	2596.0	2345.5	2324.7	2281.6	2410.9	2409.3	2552.9
60°	2535.3	2535.3	2650.2	2848.1	2975.7	2798.6	2769.9	2635.9	2682.1	2683.7	2816.1
62.5°	2492.3	2503.4	2682.1	2980.5	3237.4	3183.1	3164.0	2939.0	2935.8	2899.1	2945.4
65°	2225.8	2244.9	2532.1	2907.1	3333.1	3460.8	3452.8	3197.5	3104.9	2970.9	2867.2
67°	1815.7	1850.8	2198.7	2642.2	3224.6	3556.5	3558.1	3309.2	3106.5	2851.3	2591.2
67.5°	1716.8	1742.3	2043.9	2546.5	3165.6	3558.1	3558.1	3323.5	3097.0	2814.6	2495.4
70°	1094.5	1100.9	1429.6	1970.5	2704.5	3385.8	3398.5	3215.0	2820.9	2278.4	1751.9
72.5°	540.9	526.5	754.7	1268.5	2029.5	2897.5	2931.0	2745.9	2232.2	1488.6	925.4
75°	212.2	226.6	328.7	674.9	1271.7	2184.3	2209.8	1997.6	1436.0	767.5	365.4
77.5°	94.1	94.1	140.4	303.2	668.5	1340.3	1353.0	1219.0	757.9	315.9	111.7
80°	51.1	54.2	73.4	132.4	336.7	615.9	671.7	604.7	343.0	138.8	38.3
82.5°	25.5	27.1	44.7	75.0	169.1	233.0	245.7	256.9	158.0	86.2	16.0
85°	9.6	11.2	23.9	43.1	76.6	78.2	78.2	100.5	86.2	65.4	8.0
87.5°	1.6	3.2	11.2	17.6	30.3	27.1	23.9	31.9	47.9	41.5	4.8
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°	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5
2.5°	408.5	405.3	398.9	394.1	390.9	387.7	384.5	384.5	382.9	382.9	384.5
5°	408.5	402.1	389.3	381.3	375.0	370.2	367.0	367.0	365.4	367.0	368.6
7.5°	416.4	406.9	389.3	375.0	367.0	359.0	355.8	354.2	354.2	355.8	354.2
10°	429.2	416.4	394.1	375.0	363.8	352.6	335.1	319.1	304.8	298.4	296.8
12.5°	445.2	429.2	402.1	379.7	362.2	323.9	276.0	245.7	226.6	217.0	213.8
15°	462.7	443.6	411.7	386.1	338.3	266.5	204.2	170.7	159.6	161.2	162.7
17.5°	481.9	461.1	426.0	382.9	290.4	197.8	150.0	142.0	146.8	151.6	151.6
20°	501.0	478.7	440.4	359.0	228.2	146.8	134.0	135.6	140.4	145.2	145.2
22.5°	526.5	502.6	454.7	317.5	169.1	127.6	127.6	130.8	134.0	138.8	138.8
25°	553.7	529.7	464.3	266.5	126.0	119.7	121.3	124.5	127.6	132.4	132.4
27.5°	582.4	558.4	462.7	205.8	110.1	110.1	111.7	116.5	119.7	124.5	124.5
30°	614.3	593.5	445.2	150.0	102.1	100.5	100.5	105.3	110.1	113.3	114.9
32.5°	641.4	623.9	414.8	113.3	95.7	92.5	90.9	92.5	97.3	100.5	102.1
35°	663.7	657.4	370.2	97.3	89.4	84.6	81.4	79.8	81.4	81.4	83.0
37.5°	705.2	706.8	317.5	90.9	84.6	78.2	71.8	67.0	63.8	62.2	60.6
40°	783.4	781.8	261.7	86.2	79.8	71.8	62.2	55.8	47.9	44.7	44.7
42.5°	893.5	869.6	199.4	81.4	75.0	65.4	52.7	43.1	35.1	33.5	33.5
45°	1091.4	992.4	150.0	78.2	70.2	57.4	43.1	31.9	27.1	25.5	25.5
47.5°	1309.9	1134.4	119.7	73.4	65.4	51.1	33.5	25.5	20.7	20.7	20.7
50°	1550.9	1270.1	100.5	68.6	57.4	43.1	27.1	20.7	19.1	17.6	19.1
52.5°	1814.1	1377.0	87.8	62.2	49.5	35.1	22.3	19.1	16.0	16.0	16.0
55°	2050.3	1448.8	73.4	54.2	41.5	28.7	20.7	16.0	14.4	12.8	11.2
57.5°	2264.1	1487.1	59.0	46.3	31.9	23.9	17.6	12.8	11.2	8.0	8.0
60°	2374.2	1452.0	46.3	36.7	25.5	19.1	14.4	11.2	8.0	4.8	4.8
62.5°	2391.7	1361.0	36.7	28.7	22.3	16.0	11.2	8.0	4.8	3.2	3.2
65°	2238.6	1201.5	30.3	23.9	17.6	12.8	9.6	6.4	3.2	1.6	1.6
67°	1964.1	1033.9	27.1	20.7	16.0	11.2	8.0	4.8	3.2	1.6	0.0
67.5°	1909.9	1003.6	25.5	20.7	16.0	11.2	8.0	4.8	3.2	1.6	0.0
70°	1254.1	694.1	23.9	19.1	14.4	9.6	6.4	4.8	1.6	0.0	0.0
72.5°	684.5	349.4	22.3	17.6	12.8	9.6	6.4	3.2	1.6	0.0	0.0
75°	250.5	132.4	19.1	16.0	11.2	9.6	6.4	3.2	1.6	0.0	0.0
77.5°	84.6	46.3	17.6	16.0	12.8	9.6	6.4	3.2	1.6	0.0	0.0
80°	28.7	20.7	14.4	12.8	9.6	8.0	6.4	3.2	1.6	0.0	0.0
82.5°	11.2	6.4	4.8	4.8	4.8	6.4	6.4	4.8	1.6	0.0	0.0
85°	4.8	3.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0
87.5°	4.8	3.2	1.6	1.6	1.6	0.0	0.0	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)