

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: P573357

Luminaire Tested: **ARCH-S-PA2-60-830-U-T2U-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573357  
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-PA2-60-830-U-T2U-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 3000K, 625mA 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: 5165 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

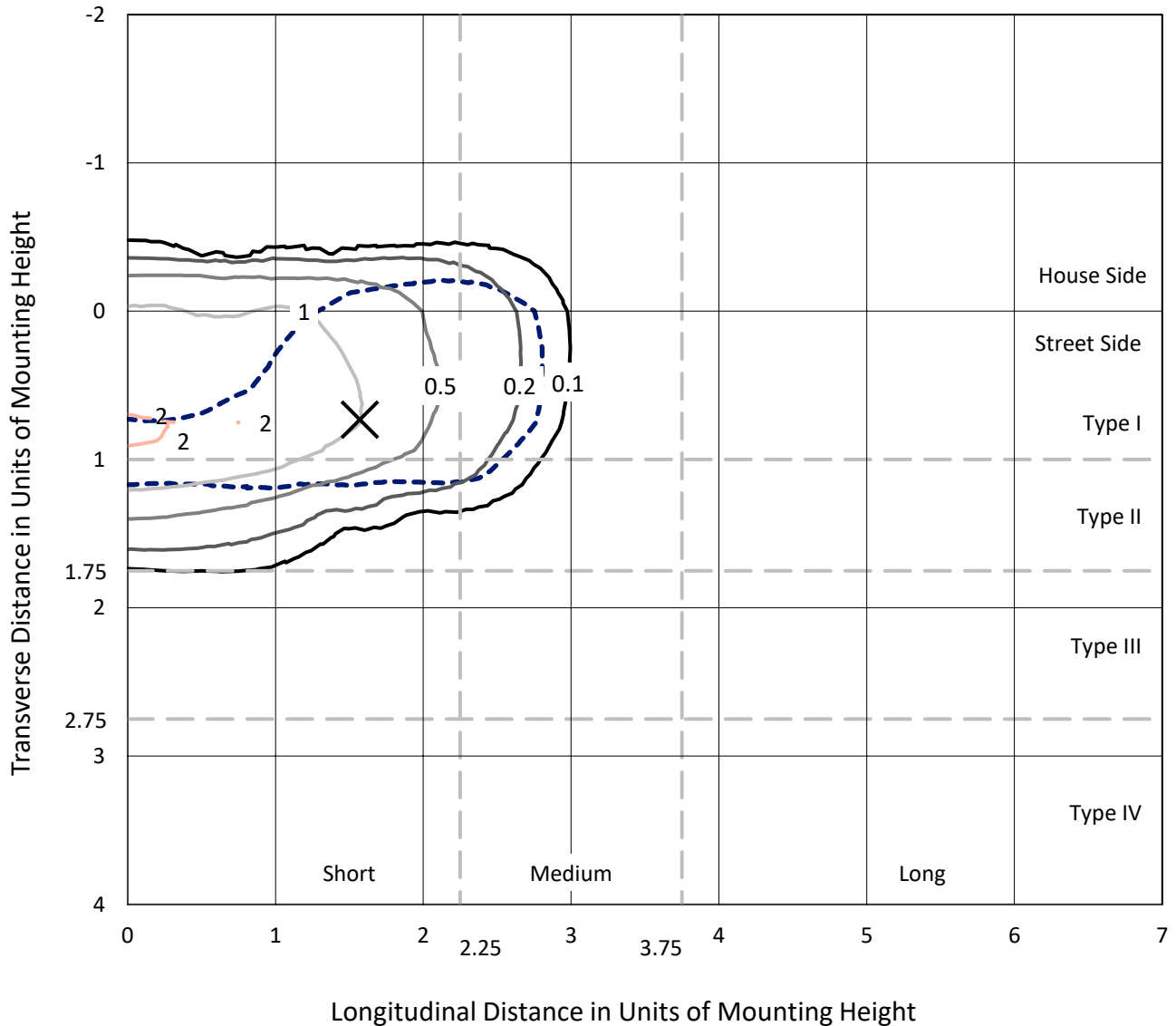
Input Watts (W): 63.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

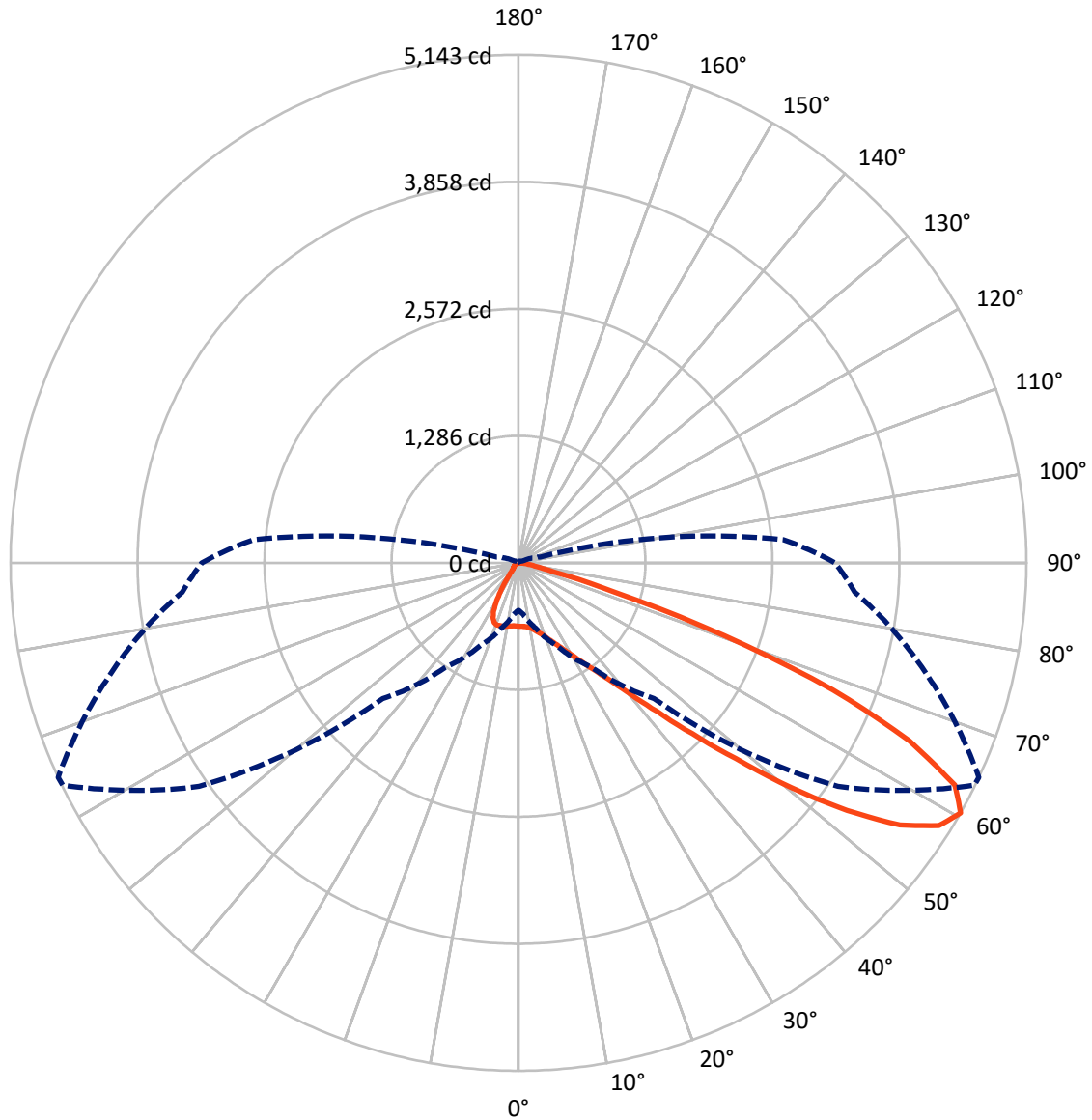
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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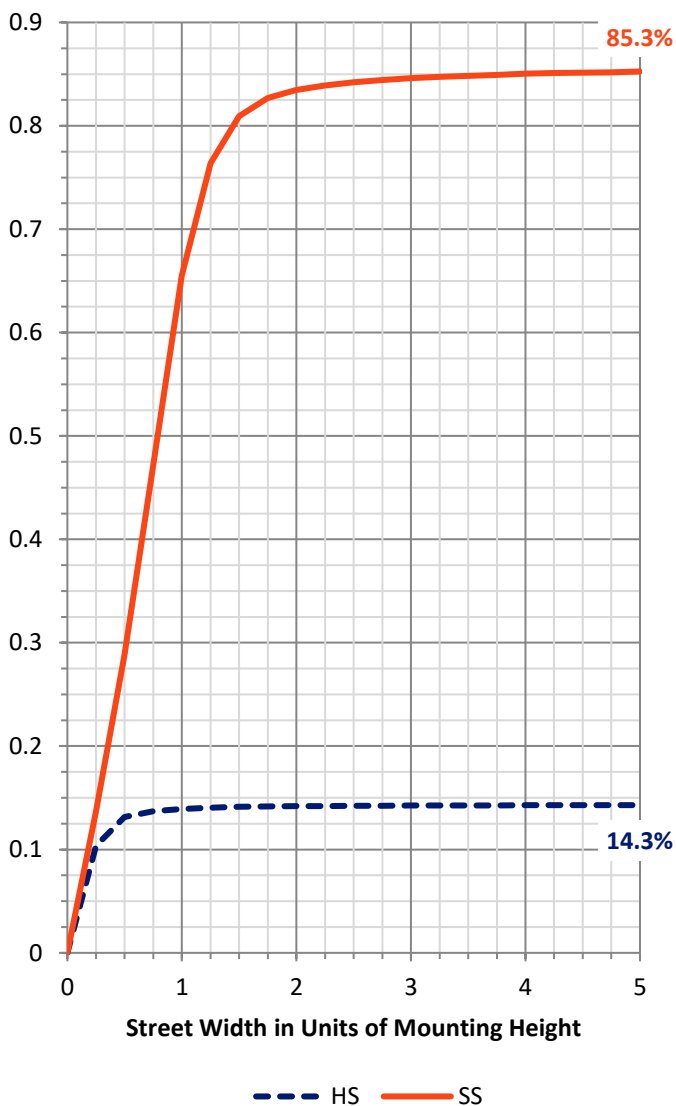
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	747.8	0.0	747.8
	% Fixture	14.5	0.0	14.5
<b>Street Side</b>	Lumens	4417.2	0.0	4417.2
	% Fixture	85.5	0.0	85.5
<b>Total</b>	Lumens	5165.0	0.0	5165.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.8	1.2
10°-20°	172.5	3.3
20°-30°	293.1	5.7
30°-40°	604.7	11.7
40°-50°	1216.2	23.5
50°-60°	1488.2	28.8
60°-70°	1052.8	20.4
70°-80°	253.7	4.9
80°-90°	22.9	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°	5165.0	100.0
0°-180°	5165.0	100.0

**Coefficient of Utilization**

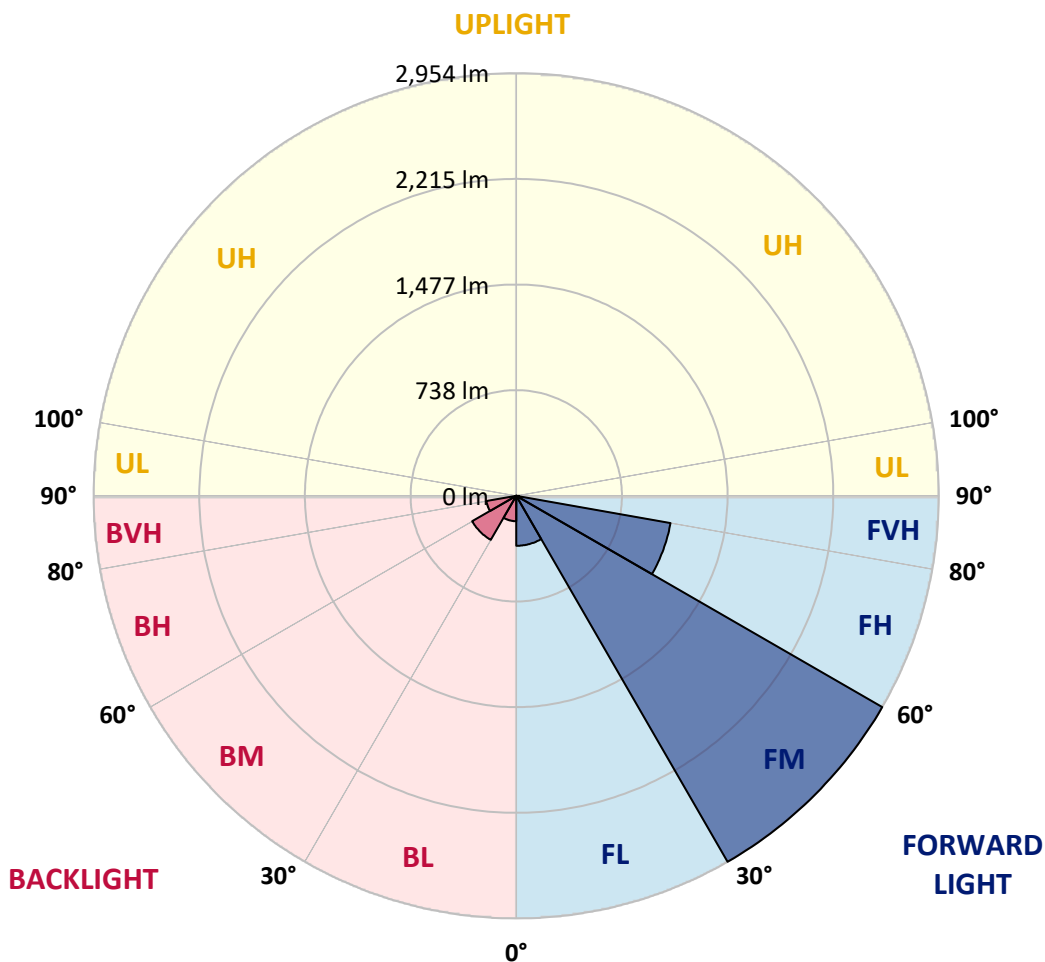


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	349.1	6.8			
FM (30°-60°)	2953.6	57.2			
FH (60°-80°)	1094.6	21.2			G1/1800
FVH (80°-90°)	19.9	0.4			G1/100
BL (0°-30°)	177.3	3.4	B1/500		
BM (30°-60°)	355.5	6.9	B1/1000		
BH (60°-80°)	212.0	4.1	B1/500		G1/500
BVH (80°-90°)	3.0	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	643.4	643.4	643.4	643.4	643.4	643.4	643.4	643.4	643.4	643.4	643.4
2.5°	645.5	643.4	643.4	643.4	645.5	645.5	647.5	643.4	643.4	643.4	643.4
5°	641.4	639.4	639.4	641.4	643.4	643.4	647.5	647.5	647.5	649.5	649.5
7.5°	649.5	645.5	645.5	647.5	649.5	649.5	653.6	655.6	655.6	659.7	661.8
10°	659.7	657.7	657.7	661.8	665.8	665.8	671.9	671.9	671.9	676.0	678.0
12.5°	674.0	671.9	671.9	678.0	684.2	688.2	692.3	694.3	694.3	696.4	696.4
15°	694.3	692.3	692.3	698.4	706.6	716.7	722.8	722.8	722.8	724.9	716.7
17.5°	722.8	720.8	722.8	726.9	737.1	747.3	759.5	761.5	759.5	755.4	743.2
20°	769.7	763.6	767.6	777.8	777.8	783.9	800.2	806.3	808.4	796.1	773.7
22.5°	818.5	818.5	822.6	834.8	826.7	834.8	849.1	859.3	863.3	853.2	816.5
25°	910.2	914.2	908.1	904.1	883.7	887.8	906.1	926.5	926.5	918.3	865.4
27.5°	1111.7	1107.7	1064.9	1005.9	952.9	957.0	975.3	1001.8	1003.8	985.5	914.2
30°	1400.9	1405.0	1321.5	1187.1	1071.0	1040.5	1060.8	1091.4	1095.5	1064.9	977.4
32.5°	1852.9	1818.3	1663.6	1484.4	1266.5	1156.5	1164.7	1197.3	1209.5	1183.0	1077.1
35°	2437.3	2355.8	2123.7	1901.8	1586.2	1364.2	1301.1	1335.7	1341.8	1327.6	1201.3
37.5°	2785.5	2720.3	2569.6	2368.1	1997.5	1641.2	1480.3	1514.9	1508.8	1480.3	1325.5
40°	3001.3	2964.7	2883.2	2789.6	2553.4	2076.9	1775.5	1747.0	1749.1	1708.3	1527.1
42.5°	3123.5	3090.9	3060.4	3084.8	3015.6	2866.9	2203.1	2072.8	2060.6	1983.2	1761.3
45°	3129.6	3080.7	3117.4	3259.9	3369.9	3567.4	2761.0	2459.7	2465.8	2337.5	2052.5
47.5°	2895.4	2856.7	2962.6	3241.6	3606.1	4025.5	3410.6	2989.1	2960.6	2708.1	2347.7
50°	2433.2	2431.2	2571.7	2966.7	3606.1	4261.7	4107.0	3610.1	3579.6	3095.0	2616.5
52.5°	1926.2	1964.9	2060.6	2435.3	3274.2	4239.3	4620.1	4251.5	4166.0	3439.1	2840.5
55°	1498.6	1484.4	1600.4	1859.0	2596.1	3852.4	4787.0	4756.5	4685.2	3744.5	3038.0
57.5°	920.3	973.3	1130.1	1360.2	1889.6	3029.8	4546.8	5064.0	5021.2	4029.6	3243.6
60°	478.5	519.2	688.2	928.5	1290.9	1942.5	3946.1	5135.2	5143.4	4259.7	3418.7
62.5°	301.4	299.3	376.7	651.6	830.8	1091.4	3064.4	4882.7	4960.1	4436.8	3585.7
65°	226.0	228.1	258.6	431.7	564.0	570.1	1818.3	4223.0	4351.3	4483.6	3642.7
67.5°	209.7	211.8	226.0	283.0	423.5	380.8	800.2	3255.8	3435.0	4052.0	3422.8
70°	187.3	189.4	211.8	234.2	319.7	279.0	360.4	1960.8	2209.2	2940.2	2738.6
72.5°	146.6	150.7	177.1	221.9	238.2	211.8	250.4	867.4	1012.0	1616.7	1567.9
75°	107.9	110.0	134.4	171.0	209.7	150.7	193.4	344.1	376.7	606.8	517.2
77.5°	75.3	75.3	93.7	128.3	175.1	105.9	138.5	185.3	189.4	226.0	148.6
80°	46.8	48.9	59.0	87.6	107.9	101.8	85.5	124.2	124.2	118.1	61.1
82.5°	26.5	28.5	40.7	59.0	73.3	69.2	55.0	71.3	73.3	75.3	34.6
85°	12.2	14.3	24.4	36.7	42.8	32.6	32.6	36.7	36.7	48.9	20.4
87.5°	2.0	2.0	12.2	16.3	14.3	16.3	16.3	20.4	20.4	24.4	10.2
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°	643.4	643.4	643.4	643.4	643.4	643.4	643.4	643.4	643.4	643.4	643.4
2.5°	641.4	641.4	641.4	639.4	639.4	637.3	633.2	633.2	633.2	633.2	635.3
5°	649.5	647.5	645.5	639.4	635.3	627.1	619.0	617.0	610.9	610.9	612.9
7.5°	659.7	659.7	653.6	643.4	633.2	619.0	604.7	594.6	584.4	582.3	580.3
10°	678.0	674.0	667.9	649.5	633.2	610.9	588.5	562.0	541.6	531.4	527.4
12.5°	692.3	690.3	678.0	657.7	631.2	596.6	545.7	484.6	435.7	409.3	409.3
15°	712.7	708.6	690.3	661.8	625.1	543.7	439.8	346.1	293.2	264.7	260.6
17.5°	733.0	724.9	702.5	663.8	598.6	448.0	307.5	221.9	185.3	171.0	167.0
20°	757.5	743.2	710.6	665.8	533.5	325.8	199.5	148.6	134.4	128.3	130.3
22.5°	790.0	765.6	718.8	653.6	435.7	211.8	140.5	120.1	112.0	105.9	105.9
25°	830.8	796.1	733.0	619.0	315.6	142.5	112.0	99.8	91.6	87.6	85.5
27.5°	867.4	824.6	747.3	557.9	201.6	112.0	93.7	83.5	75.3	73.3	71.3
30°	916.3	857.2	761.5	460.2	132.4	91.6	79.4	69.2	63.1	61.1	61.1
32.5°	999.8	920.3	788.0	350.2	99.8	79.4	67.2	59.0	55.0	52.9	52.9
35°	1097.5	997.7	810.4	244.3	85.5	67.2	57.0	50.9	48.9	46.8	46.8
37.5°	1199.3	1089.4	814.5	154.7	75.3	59.0	50.9	46.8	42.8	42.8	42.8
40°	1382.6	1250.2	796.1	103.8	65.2	52.9	44.8	42.8	38.7	38.7	38.7
42.5°	1596.4	1445.7	749.3	83.5	59.0	46.8	42.8	38.7	34.6	34.6	32.6
45°	1873.3	1667.6	669.9	73.3	52.9	42.8	38.7	34.6	32.6	30.5	30.5
47.5°	2133.9	1920.1	594.6	65.2	48.9	40.7	34.6	30.5	28.5	28.5	28.5
50°	2382.3	2113.5	507.0	61.1	44.8	38.7	32.6	28.5	26.5	24.4	24.4
52.5°	2561.5	2266.3	425.6	55.0	40.7	34.6	30.5	26.5	22.4	20.4	20.4
55°	2761.0	2421.0	352.3	48.9	38.7	32.6	26.5	22.4	18.3	16.3	16.3
57.5°	2985.0	2571.7	285.1	44.8	36.7	28.5	22.4	18.3	14.3	12.2	12.2
60°	3207.0	2691.8	228.1	40.7	32.6	26.5	20.4	14.3	10.2	8.1	8.1
62.5°	3428.9	2773.3	175.1	36.7	30.5	22.4	16.3	10.2	6.1	4.1	4.1
65°	3520.5	2750.9	130.3	32.6	26.5	18.3	14.3	10.2	6.1	4.1	4.1
67.5°	3266.0	2473.9	91.6	32.6	24.4	18.3	12.2	8.1	4.1	2.0	2.0
70°	2549.3	1909.9	67.2	32.6	24.4	18.3	12.2	8.1	4.1	2.0	2.0
72.5°	1445.7	1062.9	50.9	28.5	22.4	16.3	12.2	8.1	4.1	2.0	2.0
75°	515.2	342.1	38.7	26.5	20.4	14.3	12.2	8.1	4.1	2.0	2.0
77.5°	124.2	87.6	30.5	22.4	18.3	14.3	10.2	8.1	6.1	2.0	2.0
80°	50.9	36.7	24.4	18.3	14.3	12.2	10.2	8.1	4.1	2.0	2.0
82.5°	22.4	18.3	10.2	10.2	8.1	8.1	8.1	8.1	4.1	2.0	2.0
85°	10.2	8.1	4.1	4.1	2.0	2.0	2.0	4.1	4.1	2.0	2.0
87.5°	6.1	4.1	4.1	4.1	2.0	2.0	2.0	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)