

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: P572637

Luminaire Tested: **ARCH-S-PA2-100-722-U-T2U-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572637  
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-PA2-100-722-U-T2U-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 1010mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

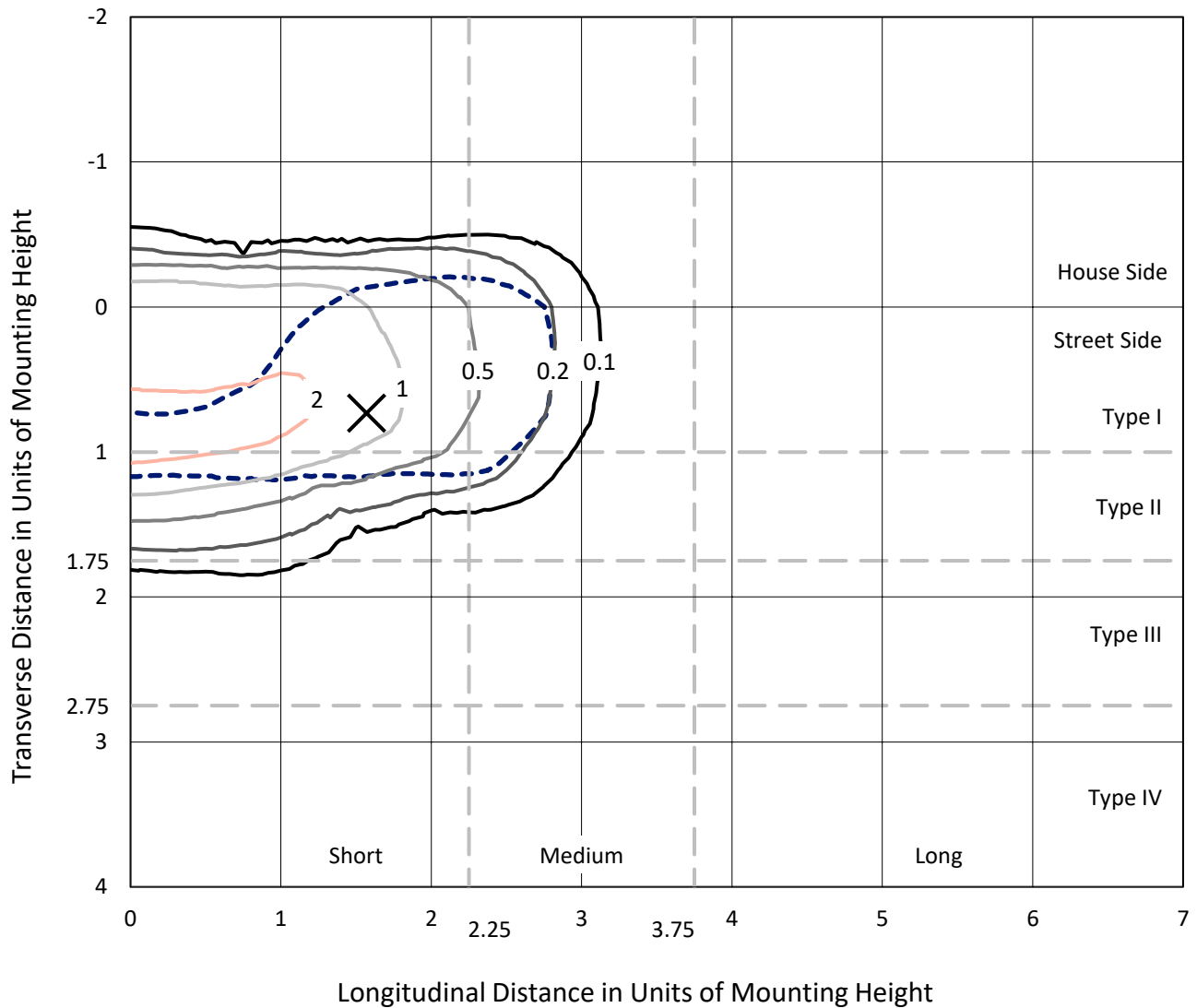
Lumens per Lamp: N/A  
Luminaire Lumens: 7023 lumens  
Efficiency: N/A  
Efficacy: 68.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 103.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

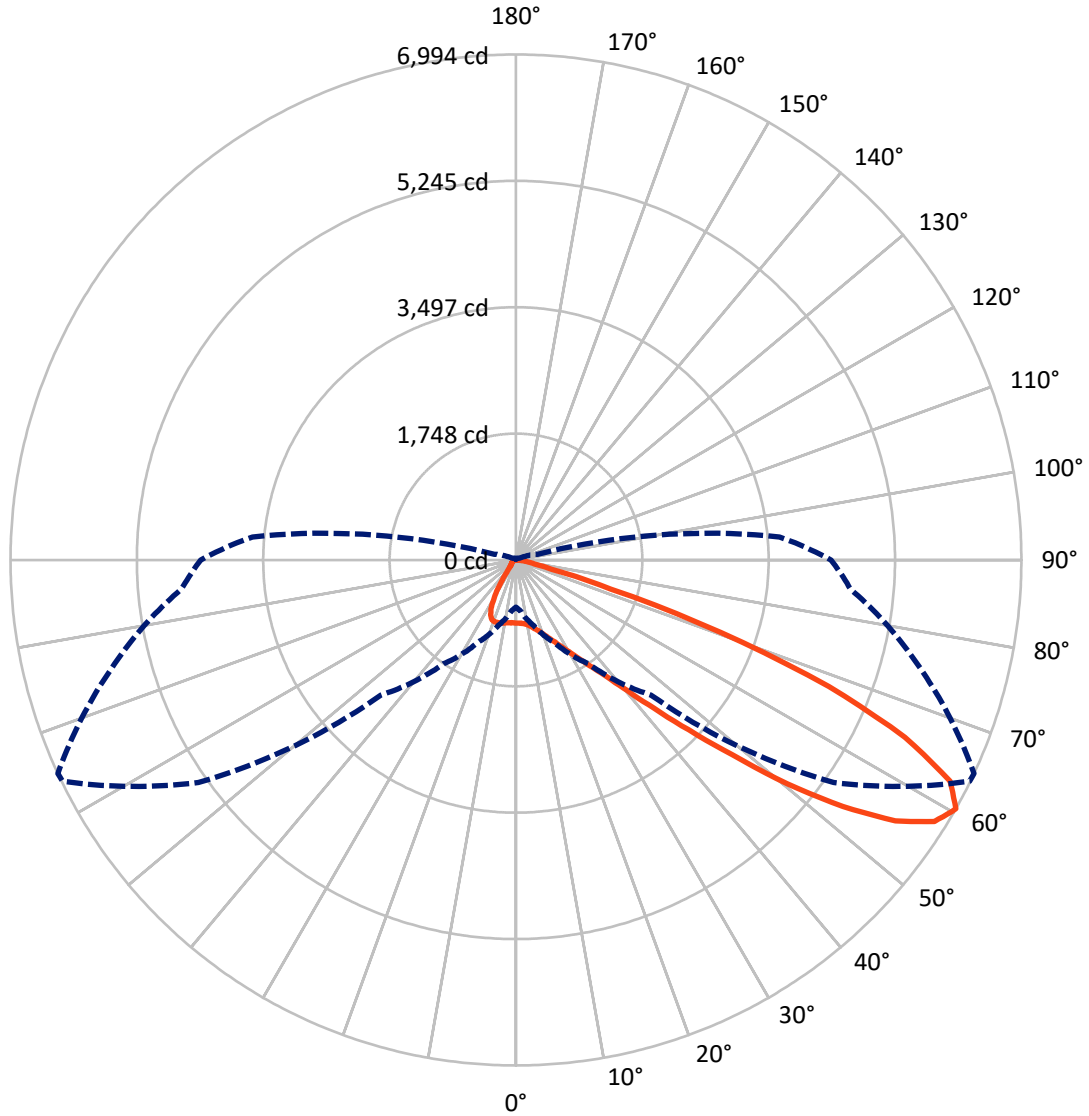
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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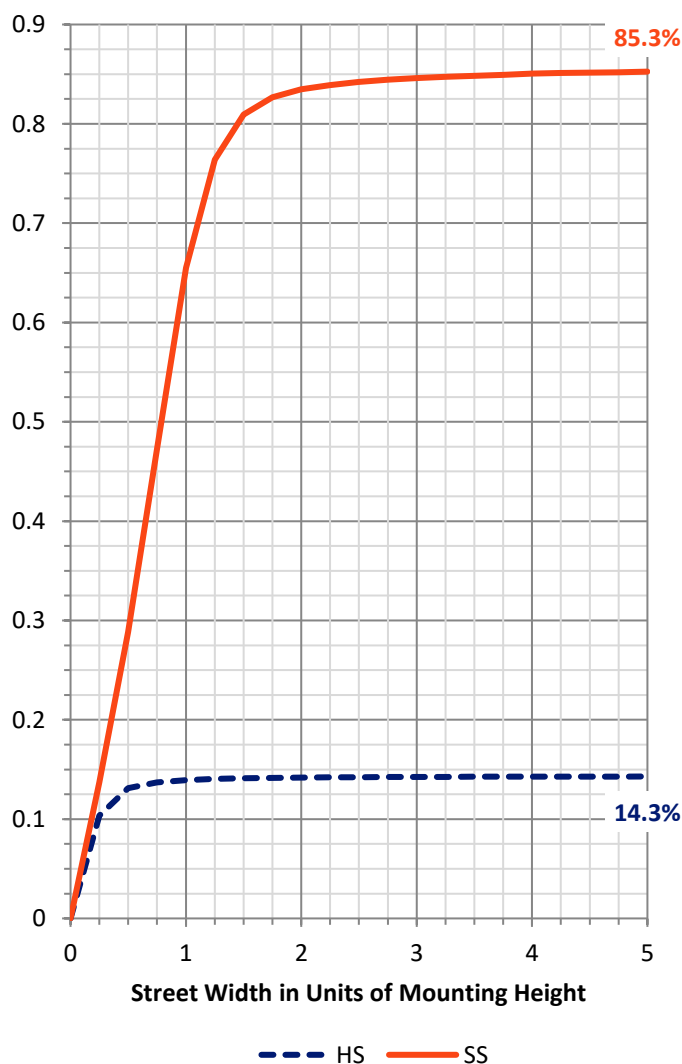
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1016.7	0.0	1016.7
	% Fixture	14.5	0.0	14.5
<b>Street Side</b>	Lumens	6006.3	0.0	6006.3
	% Fixture	85.5	0.0	85.5
<b>Total</b>	Lumens	7023.0	0.0	7023.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.7	1.2
10°-20°	234.6	3.3
20°-30°	398.5	5.7
30°-40°	822.3	11.7
40°-50°	1653.7	23.5
50°-60°	2023.6	28.8
60°-70°	1431.6	20.4
70°-80°	345.0	4.9
80°-90°	31.2	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°	7023.0	100.0
0°-180°	7023.0	100.0

**Coefficient of Utilization**



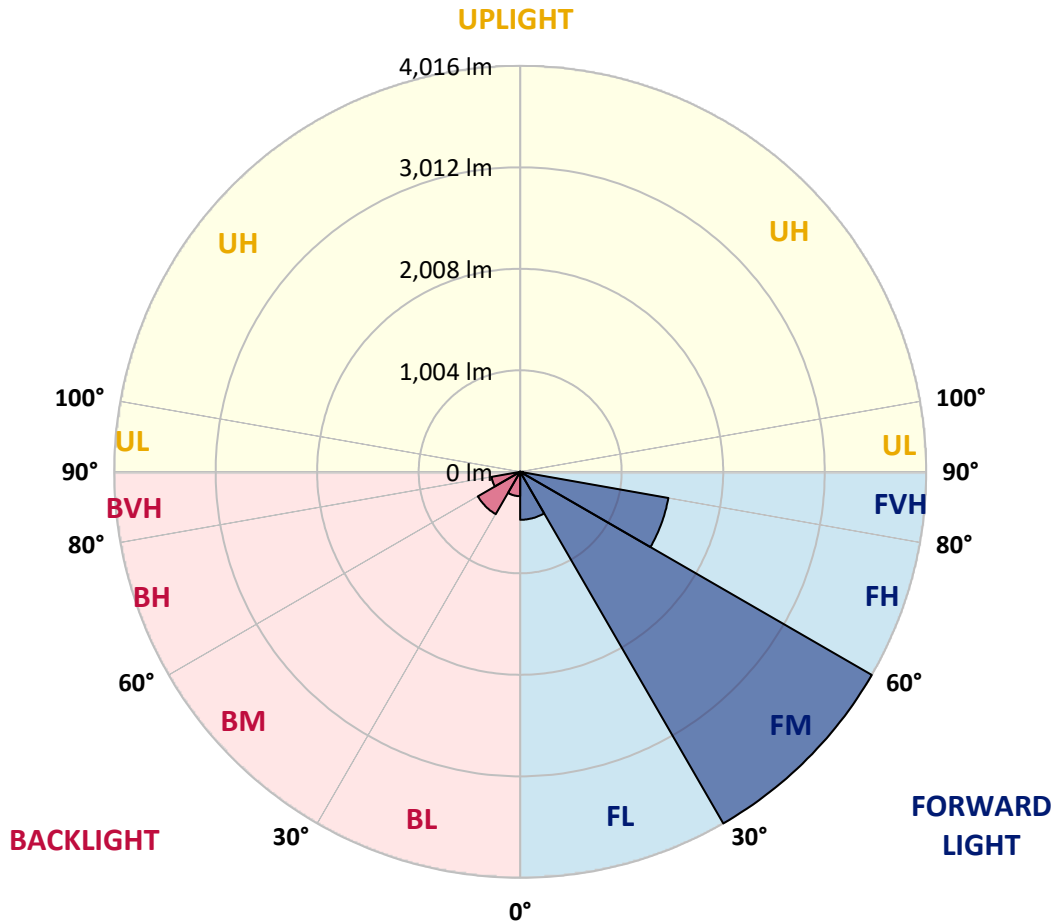
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	474.7	6.8			
FM (30°-60°)	4016.1	57.2			
FH (60°-80°)	1488.4	21.2			G1/1800
FVH (80°-90°)	27.1	0.4			G1/100
BL (0°-30°)	241.0	3.4	B1/500		
BM (30°-60°)	483.4	6.9	B1/1000		
BH (60°-80°)	288.2	4.1	B1/500		G1/500
BVH (80°-90°)	4.1	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°	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9
2.5°	877.7	874.9	874.9	874.9	877.7	877.7	880.4	874.9	874.9	874.9	874.9
5°	872.1	869.4	869.4	872.1	874.9	874.9	880.4	880.4	880.4	883.2	883.2
7.5°	883.2	877.7	877.7	880.4	883.2	883.2	888.7	891.5	891.5	897.0	899.8
10°	897.0	894.3	894.3	899.8	905.3	905.3	913.7	913.7	913.7	919.2	922.0
12.5°	916.4	913.7	913.7	922.0	930.3	935.8	941.3	944.1	946.9	946.9	946.9
15°	944.1	941.3	941.3	949.6	960.7	974.6	982.9	982.9	988.4	985.6	974.6
17.5°	982.9	980.1	982.9	988.4	1002.2	1016.1	1032.7	1035.5	1032.7	1027.2	1010.6
20°	1046.5	1038.2	1043.8	1057.6	1057.6	1065.9	1088.1	1096.4	1099.2	1082.5	1052.1
22.5°	1113.0	1113.0	1118.5	1135.1	1124.1	1135.1	1154.5	1168.4	1173.9	1160.1	1110.2
25°	1237.6	1243.1	1234.8	1229.3	1201.6	1207.1	1232.0	1259.7	1259.7	1248.7	1176.7
27.5°	1511.7	1506.1	1448.0	1367.7	1295.7	1301.3	1326.2	1362.2	1364.9	1340.0	1243.1
30°	1904.8	1910.4	1796.8	1614.1	1456.3	1414.8	1442.5	1484.0	1489.5	1448.0	1328.9
32.5°	2519.5	2472.4	2262.0	2018.3	1722.1	1572.6	1583.7	1628.0	1644.6	1608.6	1464.6
35°	3314.1	3203.3	2887.7	2585.9	2156.8	1855.0	1769.2	1816.2	1824.5	1805.2	1633.5
37.5°	3787.5	3698.9	3494.0	3219.9	2716.0	2231.5	2012.8	2059.9	2051.6	2012.8	1802.4
40°	4081.0	4031.1	3920.4	3793.0	3471.9	2824.0	2414.3	2375.5	2378.3	2322.9	2076.5
42.5°	4247.1	4202.8	4161.3	4194.5	4100.4	3898.2	2995.7	2818.5	2801.9	2696.7	2394.9
45°	4255.4	4189.0	4238.8	4432.6	4582.1	4850.7	3754.3	3344.5	3352.8	3178.4	2790.8
47.5°	3937.0	3884.4	4028.4	4407.7	4903.3	5473.6	4637.5	4064.4	4025.6	3682.3	3192.2
50°	3308.5	3305.8	3496.8	4033.9	4903.3	5794.8	5584.3	4908.8	4867.3	4208.3	3557.7
52.5°	2619.1	2671.7	2801.9	3311.3	4452.0	5764.3	6282.0	5780.9	5664.6	4676.2	3862.3
55°	2037.7	2018.3	2176.2	2527.8	3530.0	5238.3	6509.1	6467.5	6370.6	5091.5	4130.8
57.5°	1251.4	1323.4	1536.6	1849.5	2569.3	4119.7	6182.4	6885.6	6827.5	5479.1	4410.4
60°	650.6	706.0	935.8	1262.5	1755.3	2641.3	5365.6	6982.5	6993.6	5792.0	4648.5
62.5°	409.8	407.0	512.2	886.0	1129.6	1484.0	4166.8	6639.2	6744.4	6032.9	4875.6
65°	307.3	310.1	351.6	587.0	766.9	775.2	2472.4	5742.2	5916.6	6096.5	4953.1
67.5°	285.2	287.9	307.3	384.8	575.9	517.7	1088.1	4427.1	4670.7	5509.6	4654.1
70°	254.7	257.5	287.9	318.4	434.7	379.3	490.0	2666.2	3004.0	3997.9	3723.8
72.5°	199.3	204.9	240.9	301.8	323.9	287.9	340.5	1179.4	1376.0	2198.3	2131.9
75°	146.7	149.5	182.7	232.6	285.2	204.9	263.0	467.9	512.2	825.1	703.2
77.5°	102.4	102.4	127.4	174.4	238.1	144.0	188.3	251.9	257.5	307.3	202.1
80°	63.7	66.4	80.3	119.1	146.7	138.4	116.3	168.9	168.9	160.6	83.1
82.5°	36.0	38.8	55.4	80.3	99.7	94.1	74.8	96.9	99.7	102.4	47.1
85°	16.6	19.4	33.2	49.8	58.1	44.3	44.3	49.8	49.8	66.4	27.7
87.5°	2.8	2.8	16.6	22.1	19.4	22.1	22.1	27.7	27.7	33.2	13.8
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°	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9
2.5°	872.1	872.1	872.1	869.4	869.4	866.6	861.0	861.0	861.0	861.0	863.8
5°	883.2	880.4	877.7	869.4	863.8	852.7	841.7	838.9	830.6	830.6	833.4
7.5°	897.0	897.0	888.7	874.9	861.0	841.7	822.3	808.4	794.6	791.8	789.1
10°	922.0	916.4	908.1	883.2	861.0	830.6	800.1	764.1	736.5	722.6	717.1
12.5°	941.3	938.6	922.0	894.3	858.3	811.2	742.0	658.9	592.5	556.5	556.5
15°	969.0	963.5	938.6	899.8	850.0	739.2	598.0	470.7	398.7	359.9	354.4
17.5°	996.7	985.6	955.2	902.6	814.0	609.1	418.1	301.8	251.9	232.6	227.0
20°	1029.9	1010.6	966.3	905.3	725.4	443.0	271.3	202.1	182.7	174.4	177.2
22.5°	1074.2	1041.0	977.3	888.7	592.5	287.9	191.0	163.3	152.3	144.0	144.0
25°	1129.6	1082.5	996.7	841.7	429.1	193.8	152.3	135.7	124.6	119.1	116.3
27.5°	1179.4	1121.3	1016.1	758.6	274.1	152.3	127.4	113.5	102.4	99.7	96.9
30°	1245.9	1165.6	1035.5	625.7	180.0	124.6	108.0	94.1	85.8	83.1	83.1
32.5°	1359.4	1251.4	1071.5	476.2	135.7	108.0	91.4	80.3	74.8	72.0	72.0
35°	1492.3	1356.6	1101.9	332.2	116.3	91.4	77.5	69.2	66.4	63.7	63.7
37.5°	1630.7	1481.2	1107.5	210.4	102.4	80.3	69.2	63.7	58.1	58.1	58.1
40°	1879.9	1699.9	1082.5	141.2	88.6	72.0	60.9	58.1	52.6	52.6	52.6
42.5°	2170.6	1965.7	1018.9	113.5	80.3	63.7	58.1	52.6	47.1	47.1	44.3
45°	2547.1	2267.5	910.9	99.7	72.0	58.1	52.6	47.1	44.3	41.5	41.5
47.5°	2901.5	2610.8	808.4	88.6	66.4	55.4	47.1	41.5	38.8	38.8	38.8
50°	3239.3	2873.8	689.4	83.1	60.9	52.6	44.3	38.8	36.0	33.2	33.2
52.5°	3482.9	3081.5	578.6	74.8	55.4	47.1	41.5	36.0	30.5	27.7	27.7
55°	3754.3	3291.9	479.0	66.4	52.6	44.3	36.0	30.5	24.9	22.1	22.1
57.5°	4058.8	3496.8	387.6	60.9	49.8	38.8	30.5	24.9	19.4	16.6	16.6
60°	4360.6	3660.1	310.1	55.4	44.3	36.0	27.7	19.4	13.8	11.1	11.1
62.5°	4662.4	3770.9	238.1	49.8	41.5	30.5	22.1	13.8	8.3	5.5	5.5
65°	4787.0	3740.4	177.2	44.3	36.0	24.9	19.4	13.8	8.3	5.5	5.5
67.5°	4440.9	3363.9	124.6	44.3	33.2	24.9	16.6	11.1	5.5	2.8	2.8
70°	3466.3	2597.0	91.4	44.3	33.2	24.9	16.6	11.1	5.5	2.8	2.8
72.5°	1965.7	1445.2	69.2	38.8	30.5	22.1	16.6	11.1	5.5	2.8	2.8
75°	700.5	465.1	52.6	36.0	27.7	19.4	16.6	11.1	5.5	2.8	2.8
77.5°	168.9	119.1	41.5	30.5	24.9	19.4	13.8	11.1	8.3	2.8	2.8
80°	69.2	49.8	33.2	24.9	19.4	16.6	13.8	11.1	5.5	2.8	2.8
82.5°	30.5	24.9	13.8	13.8	11.1	11.1	11.1	11.1	5.5	2.8	2.8
85°	13.8	11.1	5.5	5.5	2.8	2.8	2.8	5.5	5.5	2.8	2.8
87.5°	8.3	5.5	5.5	5.5	2.8	2.8	2.8	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)