

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: P573204

Luminaire Tested: **ARCH-S-PA2-50-722-U-T2U-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573204  
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-PA2-50-722-U-T2U-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 520mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

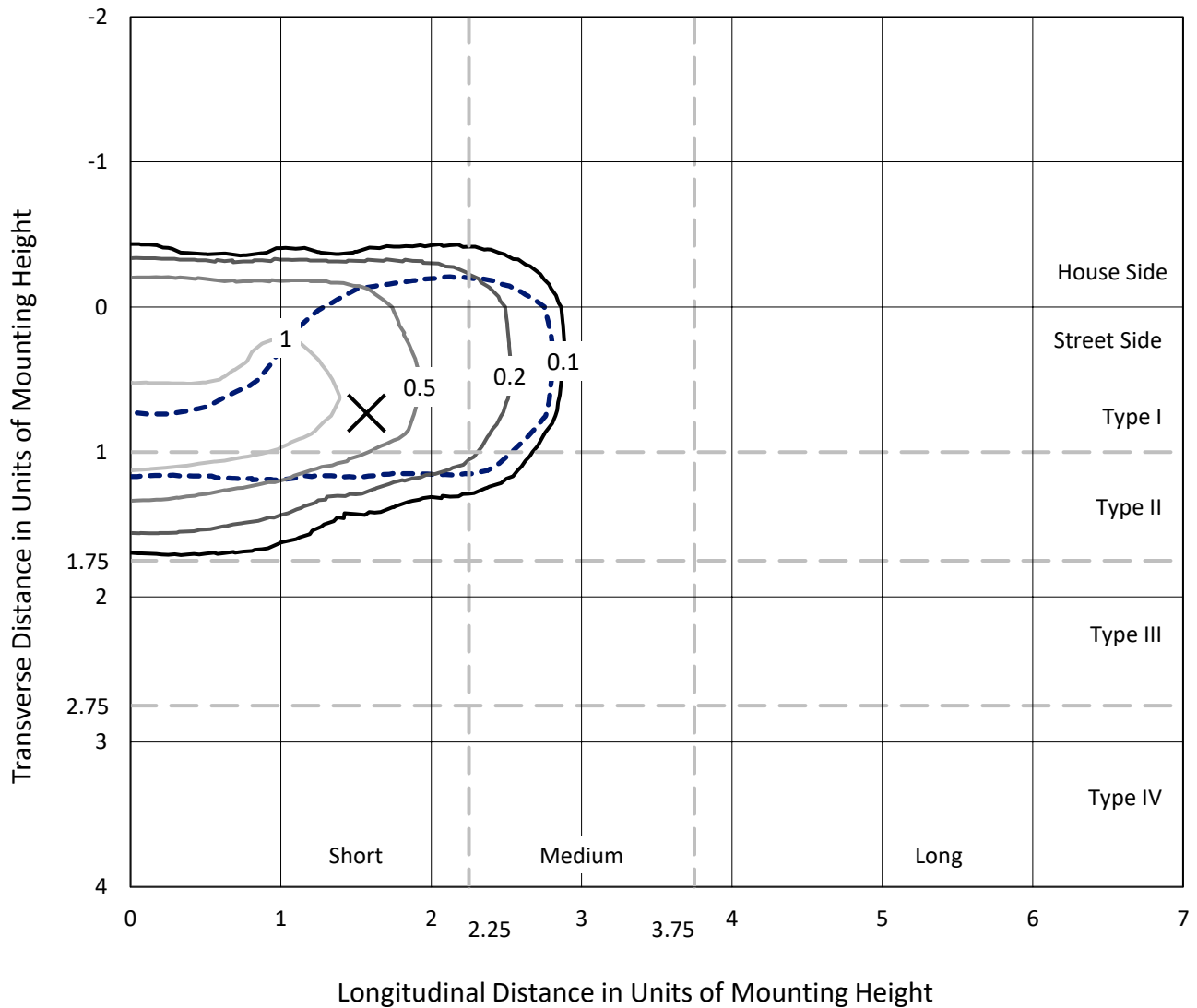
Lumens per Lamp: N/A  
Luminaire Lumens: 4048 lumens  
Efficiency: N/A  
Efficacy: 75.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 53.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

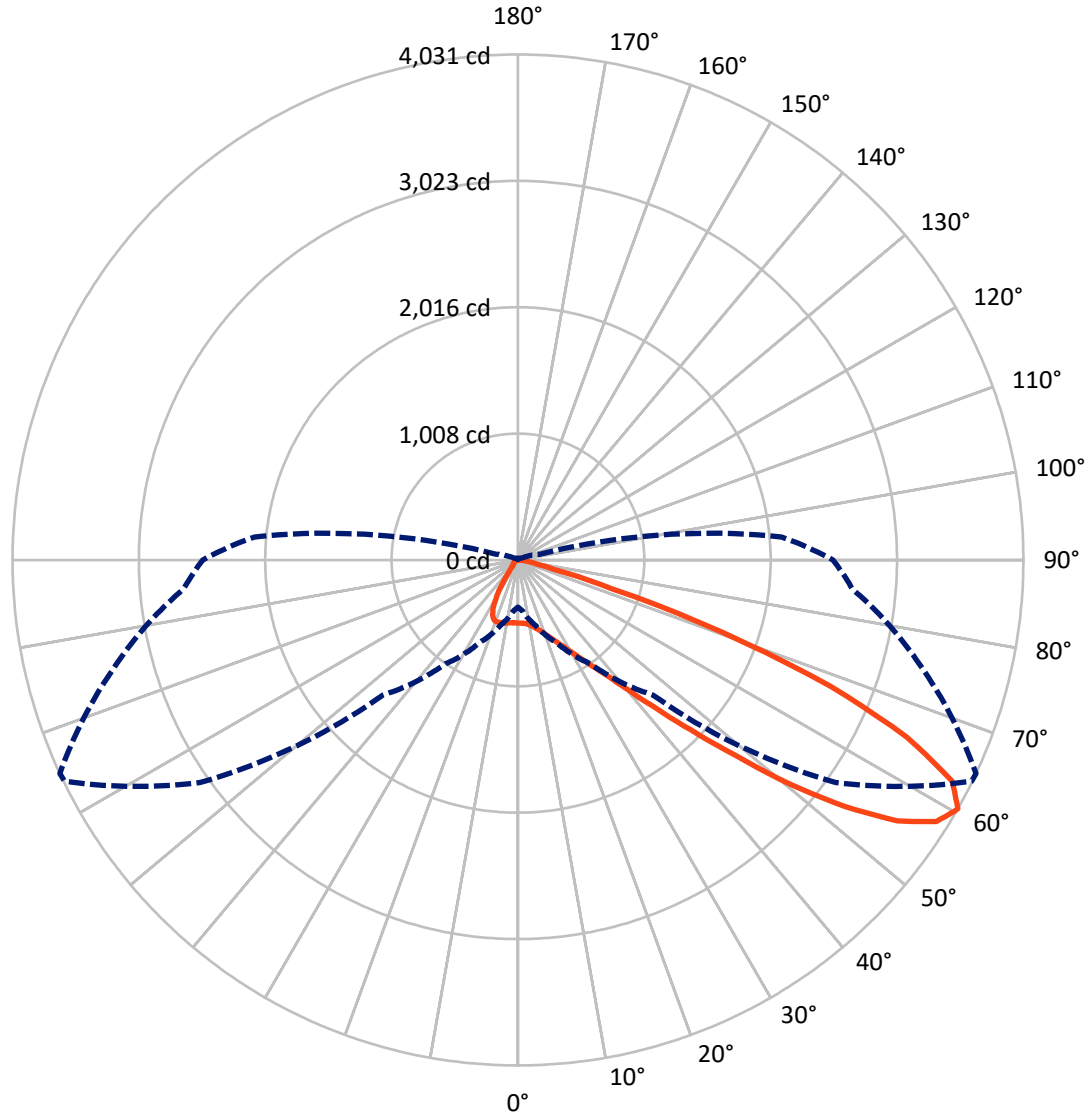
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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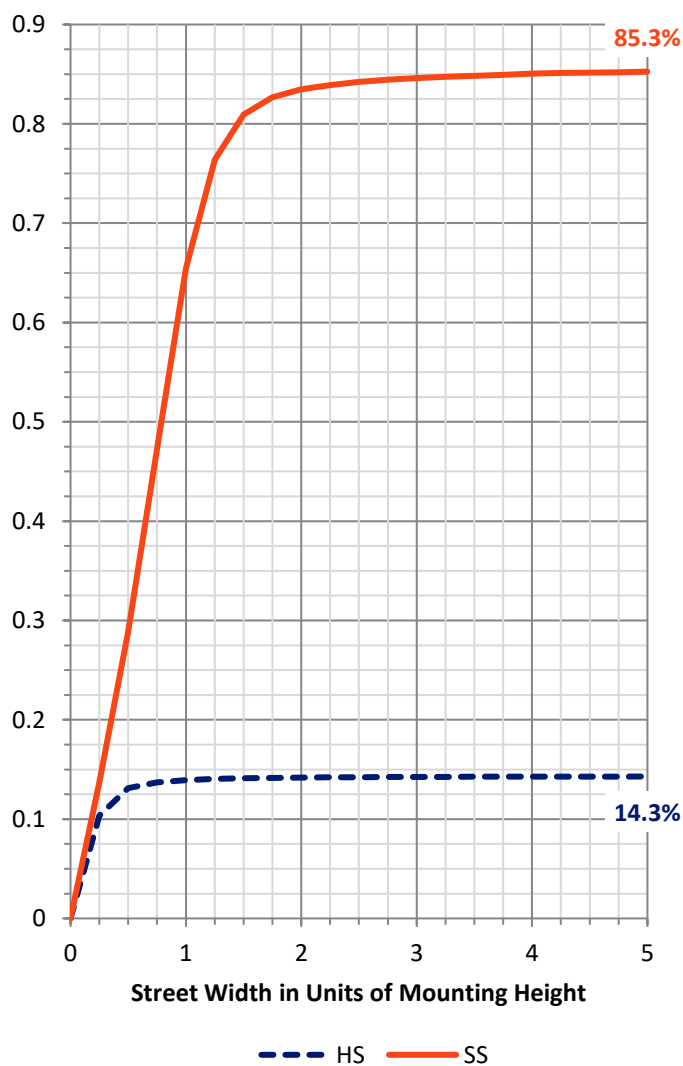
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	586.0	0.0	586.0
	% Fixture	14.5	0.0	14.5
<b>Street Side</b>	Lumens	3462.0	0.0	3462.0
	% Fixture	85.5	0.0	85.5
<b>Total</b>	Lumens	4048.0	0.0	4048.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.7	1.2
10°-20°	135.2	3.3
20°-30°	229.7	5.7
30°-40°	473.9	11.7
40°-50°	953.2	23.5
50°-60°	1166.4	28.8
60°-70°	825.2	20.4
70°-80°	198.8	4.9
80°-90°	18.0	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°	4048.0	100.0
0°-180°	4048.0	100.0

**Coefficient of Utilization**

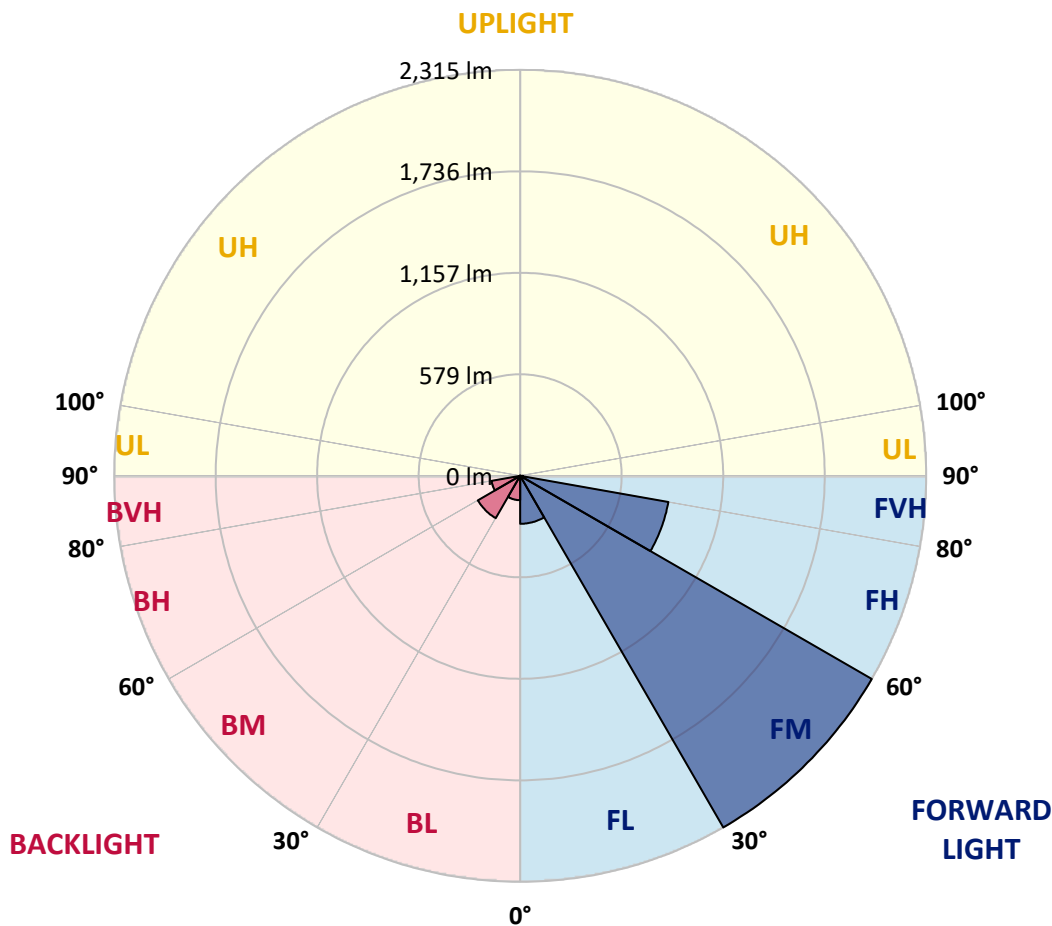


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	273.6	6.8			
FM (30°-60°)	2314.8	57.2			
FH (60°-80°)	857.9	21.2			G1/1800
FVH (80°-90°)	15.6	0.4			G1/100
BL (0°-30°)	138.9	3.4	B1/500		
BM (30°-60°)	278.6	6.9	B1/1000		
BH (60°-80°)	166.1	4.1	B1/500		G1/500
BVH (80°-90°)	2.3	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°	504.3	504.3	504.3	504.3	504.3	504.3	504.3	504.3	504.3	504.3	504.3
2.5°	505.9	504.3	504.3	504.3	505.9	505.9	507.5	504.3	504.3	504.3	504.3
5°	502.7	501.1	501.1	502.7	504.3	504.3	507.5	507.5	507.5	509.1	509.1
7.5°	509.1	505.9	505.9	507.5	509.1	509.1	512.3	513.9	513.9	517.0	518.6
10°	517.0	515.5	515.5	518.6	521.8	521.8	526.6	526.6	526.6	529.8	531.4
12.5°	528.2	526.6	526.6	531.4	536.2	539.4	542.6	544.2	545.8	545.8	545.8
15°	544.2	542.6	542.6	547.4	553.8	561.7	566.5	566.5	569.7	568.1	561.7
17.5°	566.5	564.9	566.5	569.7	577.7	585.7	595.2	596.8	595.2	592.0	582.5
20°	603.2	598.4	601.6	609.6	609.6	614.4	627.2	631.9	633.5	624.0	606.4
22.5°	641.5	641.5	644.7	654.3	647.9	654.3	665.5	673.4	676.6	668.6	639.9
25°	713.3	716.5	711.7	708.5	692.6	695.8	710.1	726.1	726.1	719.7	678.2
27.5°	871.3	868.1	834.6	788.3	746.8	750.0	764.4	785.1	786.7	772.4	716.5
30°	1097.9	1101.1	1035.7	930.4	839.4	815.5	831.4	855.4	858.6	834.6	766.0
32.5°	1452.2	1425.1	1303.8	1163.4	992.6	906.4	912.8	938.3	947.9	927.2	844.2
35°	1910.2	1846.4	1664.4	1490.5	1243.1	1069.2	1019.7	1046.9	1051.6	1040.5	941.5
37.5°	2183.1	2132.0	2013.9	1855.9	1565.5	1286.2	1160.2	1187.3	1182.5	1160.2	1038.9
40°	2352.2	2323.5	2259.7	2186.3	2001.2	1627.7	1391.6	1369.2	1370.8	1338.9	1196.9
42.5°	2448.0	2422.5	2398.5	2417.7	2363.4	2246.9	1726.7	1624.5	1615.0	1554.3	1380.4
45°	2452.8	2414.5	2443.2	2554.9	2641.1	2795.9	2163.9	1927.8	1932.5	1832.0	1608.6
47.5°	2269.3	2238.9	2321.9	2540.5	2826.2	3154.9	2673.0	2342.7	2320.3	2122.4	1840.0
50°	1907.0	1905.4	2015.5	2325.1	2826.2	3340.1	3218.8	2829.4	2805.5	2425.6	2050.6
52.5°	1509.6	1540.0	1615.0	1908.6	2566.1	3322.5	3620.9	3332.1	3265.1	2695.3	2226.2
55°	1174.5	1163.4	1254.3	1457.0	2034.7	3019.3	3751.8	3727.8	3672.0	2934.7	2381.0
57.5°	721.3	762.8	885.7	1066.0	1480.9	2374.6	3563.5	3968.8	3935.3	3158.1	2542.1
60°	375.0	406.9	539.4	727.7	1011.8	1522.4	3092.7	4024.7	4031.0	3338.5	2679.4
62.5°	236.2	234.6	295.2	510.7	651.1	855.4	2401.7	3826.8	3887.4	3477.3	2810.2
65°	177.1	178.7	202.7	338.3	442.0	446.8	1425.1	3309.7	3410.3	3514.0	2854.9
67.5°	164.4	166.0	177.1	221.8	331.9	298.4	627.2	2551.7	2692.2	3175.7	2682.6
70°	146.8	148.4	166.0	183.5	250.5	218.6	282.5	1536.8	1731.5	2304.4	2146.4
72.5°	114.9	118.1	138.8	173.9	186.7	166.0	196.3	679.8	793.1	1267.1	1228.8
75°	84.6	86.2	105.3	134.0	164.4	118.1	151.6	269.7	295.2	475.6	405.3
77.5°	59.0	59.0	73.4	100.5	137.2	83.0	108.5	145.2	148.4	177.1	116.5
80°	36.7	38.3	46.3	68.6	84.6	79.8	67.0	97.3	97.3	92.6	47.9
82.5°	20.7	22.3	31.9	46.3	57.4	54.3	43.1	55.9	57.4	59.0	27.1
85°	9.6	11.2	19.1	28.7	33.5	25.5	25.5	28.7	28.7	38.3	16.0
87.5°	1.6	1.6	9.6	12.8	11.2	12.8	12.8	16.0	16.0	19.1	8.0
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°	504.3	504.3	504.3	504.3	504.3	504.3	504.3	504.3	504.3	504.3	504.3
2.5°	502.7	502.7	502.7	501.1	501.1	499.5	496.3	496.3	496.3	496.3	497.9
5°	509.1	507.5	505.9	501.1	497.9	491.5	485.1	483.5	478.7	478.7	480.3
7.5°	517.0	517.0	512.3	504.3	496.3	485.1	474.0	466.0	458.0	456.4	454.8
10°	531.4	528.2	523.4	509.1	496.3	478.7	461.2	440.4	424.5	416.5	413.3
12.5°	542.6	541.0	531.4	515.5	494.7	467.6	427.7	379.8	341.5	320.8	320.8
15°	558.5	555.3	541.0	518.6	489.9	426.1	344.7	271.3	229.8	207.5	204.3
17.5°	574.5	568.1	550.6	520.2	469.2	351.1	241.0	173.9	145.2	134.0	130.9
20°	593.6	582.5	556.9	521.8	418.1	255.3	156.4	116.5	105.3	100.5	102.1
22.5°	619.2	600.0	563.3	512.3	341.5	166.0	110.1	94.2	87.8	83.0	83.0
25°	651.1	624.0	574.5	485.1	247.4	111.7	87.8	78.2	71.8	68.6	67.0
27.5°	679.8	646.3	585.7	437.3	158.0	87.8	73.4	65.4	59.0	57.4	55.9
30°	718.1	671.8	596.8	360.7	103.7	71.8	62.2	54.3	49.5	47.9	47.9
32.5°	783.5	721.3	617.6	274.5	78.2	62.2	52.7	46.3	43.1	41.5	41.5
35°	860.1	782.0	635.1	191.5	67.0	52.7	44.7	39.9	38.3	36.7	36.7
37.5°	939.9	853.8	638.3	121.3	59.0	46.3	39.9	36.7	33.5	33.5	33.5
40°	1083.6	979.8	624.0	81.4	51.1	41.5	35.1	33.5	30.3	30.3	30.3
42.5°	1251.1	1133.0	587.3	65.4	46.3	36.7	33.5	30.3	27.1	27.1	25.5
45°	1468.2	1307.0	525.0	57.4	41.5	33.5	30.3	27.1	25.5	23.9	23.9
47.5°	1672.4	1504.9	466.0	51.1	38.3	31.9	27.1	23.9	22.3	22.3	22.3
50°	1867.1	1656.5	397.4	47.9	35.1	30.3	25.5	22.3	20.7	19.1	19.1
52.5°	2007.5	1776.1	333.5	43.1	31.9	27.1	23.9	20.7	17.6	16.0	16.0
55°	2163.9	1897.4	276.1	38.3	30.3	25.5	20.7	17.6	14.4	12.8	12.8
57.5°	2339.5	2015.5	223.4	35.1	28.7	22.3	17.6	14.4	11.2	9.6	9.6
60°	2513.4	2109.7	178.7	31.9	25.5	20.7	16.0	11.2	8.0	6.4	6.4
62.5°	2687.4	2173.5	137.2	28.7	23.9	17.6	12.8	8.0	4.8	3.2	3.2
65°	2759.2	2156.0	102.1	25.5	20.7	14.4	11.2	8.0	4.8	3.2	3.2
67.5°	2559.7	1938.9	71.8	25.5	19.1	14.4	9.6	6.4	3.2	1.6	1.6
70°	1998.0	1496.9	52.7	25.5	19.1	14.4	9.6	6.4	3.2	1.6	1.6
72.5°	1133.0	833.0	39.9	22.3	17.6	12.8	9.6	6.4	3.2	1.6	1.6
75°	403.7	268.1	30.3	20.7	16.0	11.2	9.6	6.4	3.2	1.6	1.6
77.5°	97.3	68.6	23.9	17.6	14.4	11.2	8.0	6.4	4.8	1.6	1.6
80°	39.9	28.7	19.1	14.4	11.2	9.6	8.0	6.4	3.2	1.6	1.6
82.5°	17.6	14.4	8.0	8.0	6.4	6.4	6.4	6.4	3.2	1.6	1.6
85°	8.0	6.4	3.2	3.2	1.6	1.6	1.6	3.2	3.2	1.6	1.6
87.5°	4.8	3.2	3.2	3.2	1.6	1.6	1.6	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)