

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: P573087

Luminaire Tested: **ARCH-S-PA2-30-750-U-T2U-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573087  
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-PA2-30-750-U-T2U-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 320mA 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: 3604 lumens  
Efficiency: N/A  
Efficacy: 107.6 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): 33.5  
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

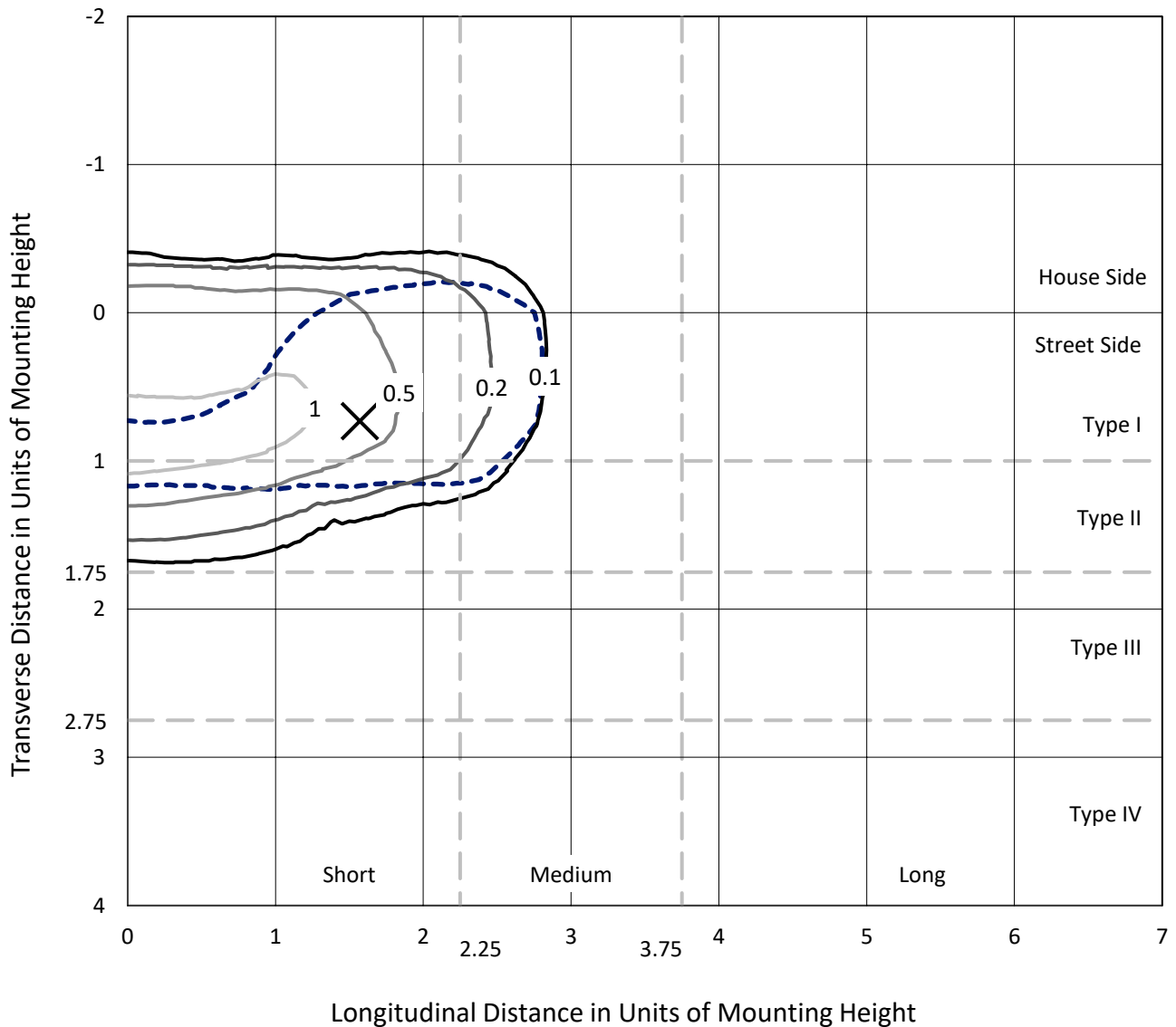




REPORT NUMBER: P573087  
 CATALOG NUMBER: ARCH-S-PA2-30-750-U-T2U-HSS

### Iso-Footcandle Lines of Horizontal Illumination

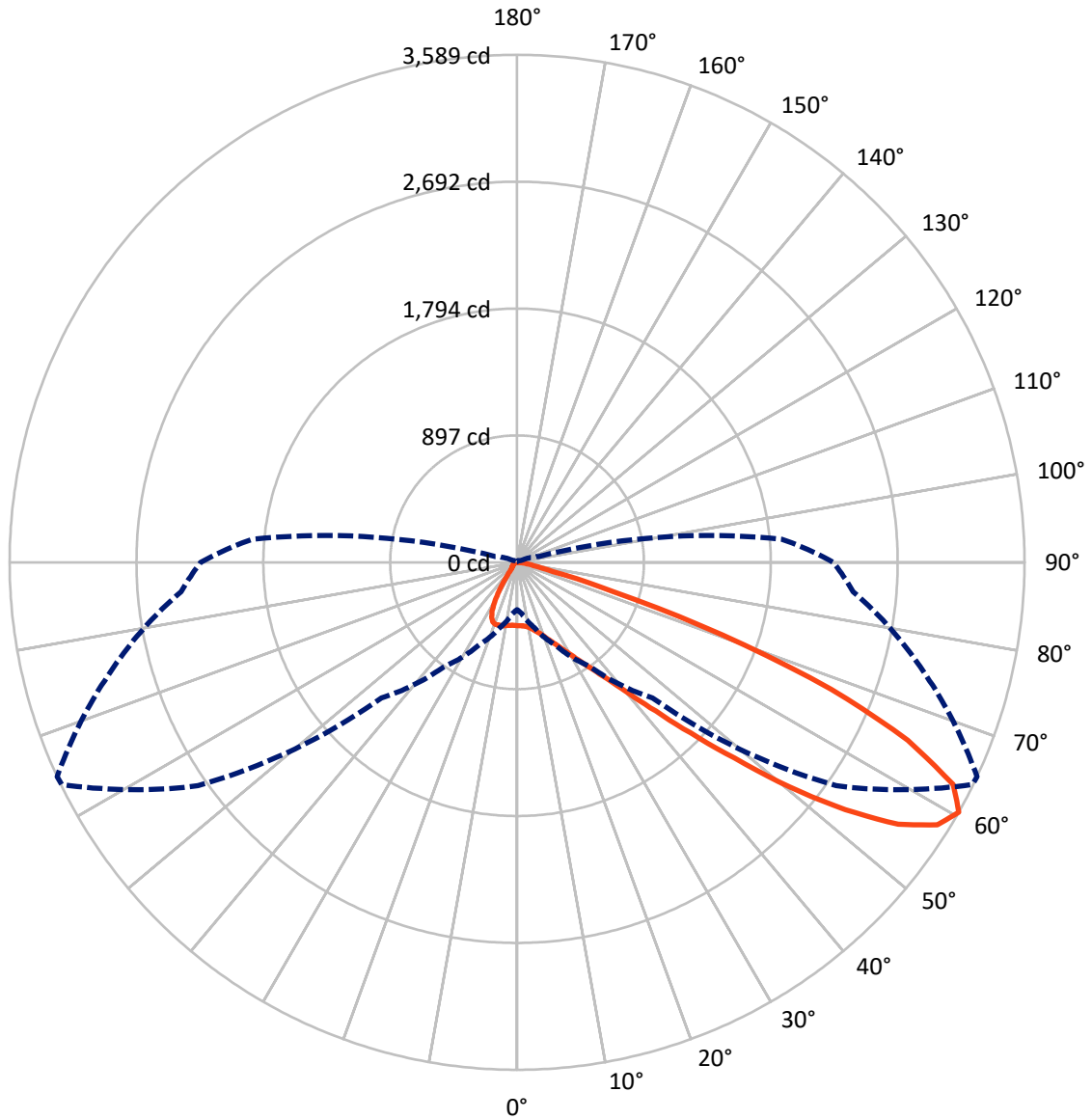
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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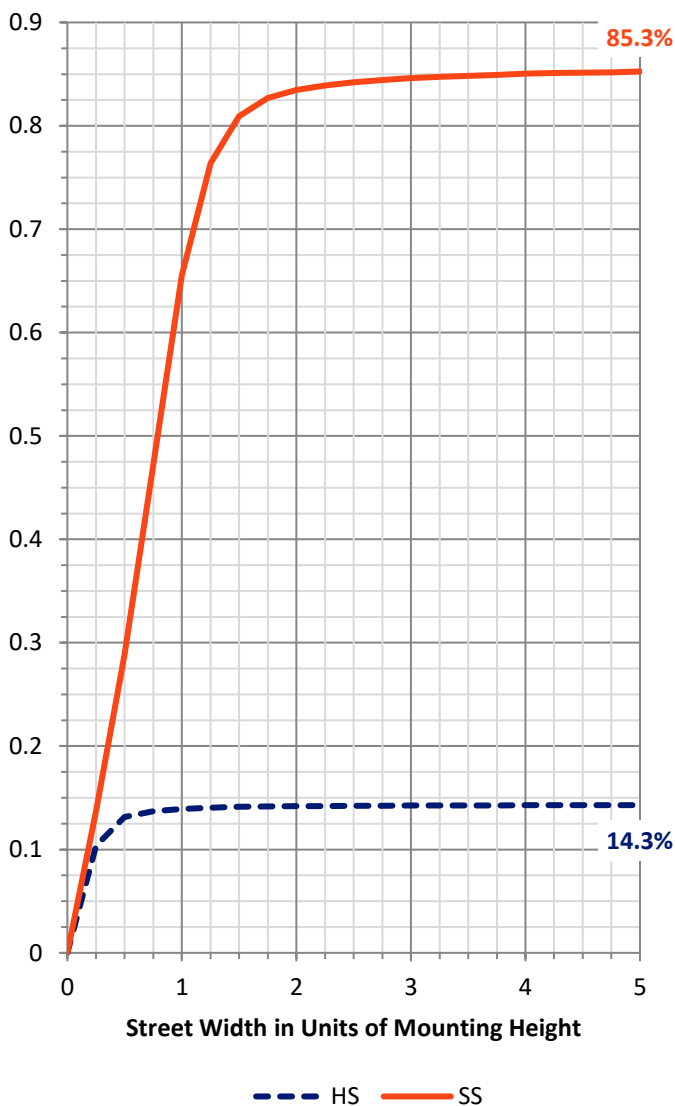
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	521.7	0.0	521.7
	% Fixture	14.5	0.0	14.5
<b>Street Side</b>	Lumens	3082.2	0.0	3082.2
	% Fixture	85.5	0.0	85.5
<b>Total</b>	Lumens	3604.0	0.0	3604.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.4	1.2
10°-20°	120.4	3.3
20°-30°	204.5	5.7
30°-40°	422.0	11.7
40°-50°	848.6	23.5
50°-60°	1038.4	28.8
60°-70°	734.6	20.4
70°-80°	177.0	4.9
80°-90°	16.0	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°	3604.0	100.0
0°-180°	3604.0	100.0

**Coefficient of Utilization**

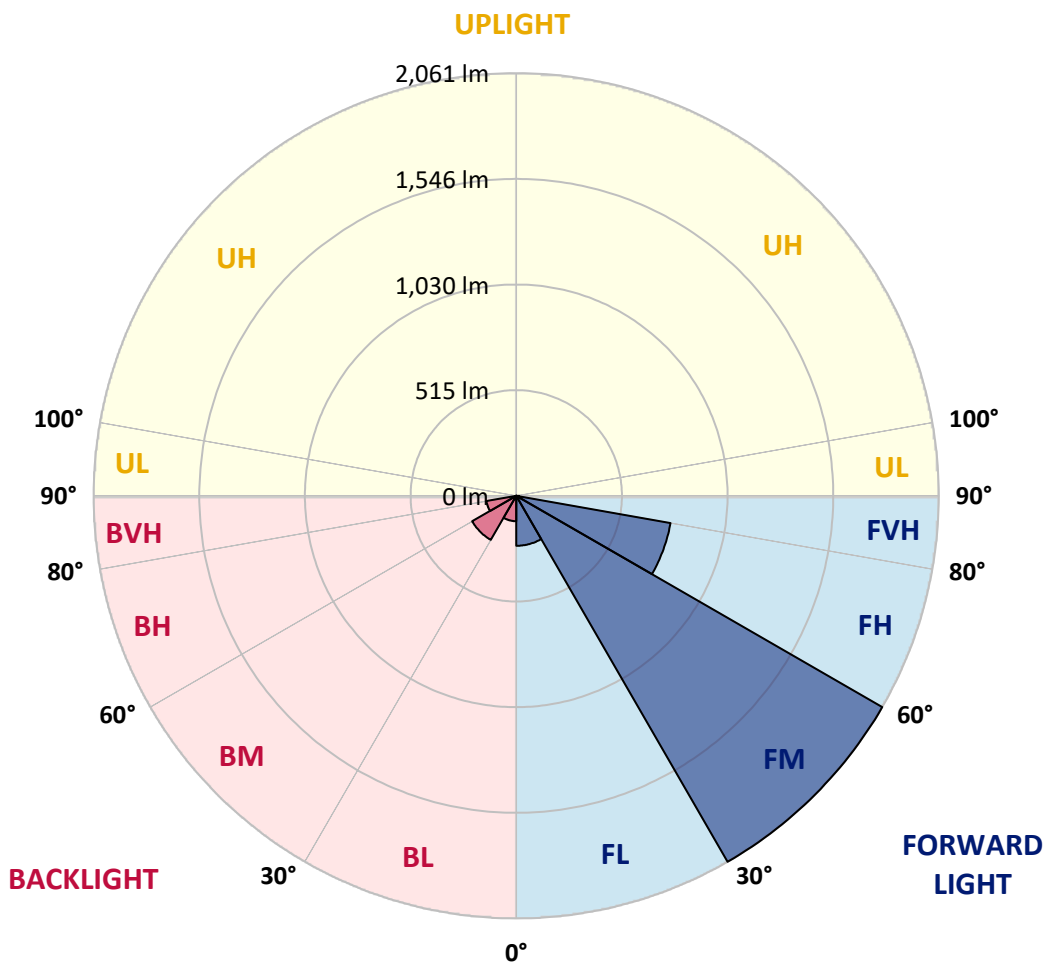


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	243.6	6.8			
FM (30°-60°)	2060.9	57.2			
FH (60°-80°)	763.8	21.2			G1/1800
FVH (80°-90°)	13.9	0.4			G1/100
BL (0°-30°)	123.7	3.4	B1/500		
BM (30°-60°)	248.1	6.9	B1/1000		
BH (60°-80°)	147.9	4.1	B1/500		G1/500
BVH (80°-90°)	2.1	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





REPORT NUMBER: P573087

CATALOG NUMBER: ARCH-S-PA2-30-750-U-T2U-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0
2.5°	450.4	449.0	449.0	449.0	450.4	450.4	451.8	449.0	449.0	449.0	449.0
5°	447.5	446.1	446.1	447.5	449.0	449.0	451.8	451.8	451.8	453.2	453.2
7.5°	453.2	450.4	450.4	451.8	453.2	453.2	456.1	457.5	457.5	460.3	461.8
10°	460.3	458.9	458.9	461.8	464.6	464.6	468.9	468.9	468.9	471.7	473.1
12.5°	470.3	468.9	468.9	473.1	477.4	480.2	483.1	484.5	485.9	485.9	485.9
15°	484.5	483.1	483.1	487.3	493.0	500.1	504.4	504.4	507.2	505.8	500.1
17.5°	504.4	503.0	504.4	507.2	514.3	521.4	530.0	531.4	530.0	527.1	518.6
20°	537.1	532.8	535.6	542.7	542.7	547.0	558.4	562.6	564.1	555.5	539.9
22.5°	571.2	571.2	574.0	582.5	576.8	582.5	592.5	599.6	602.4	595.3	569.7
25°	635.1	637.9	633.7	630.8	616.6	619.5	632.2	646.5	646.5	640.8	603.8
27.5°	775.7	772.9	743.1	701.9	664.9	667.8	680.6	699.0	700.4	687.7	637.9
30°	977.5	980.3	922.1	828.3	747.3	726.0	740.2	761.5	764.4	743.1	682.0
32.5°	1292.9	1268.8	1160.8	1035.8	883.7	807.0	812.7	835.4	843.9	825.5	751.6
35°	1700.7	1643.8	1481.9	1327.0	1106.8	951.9	907.9	932.0	936.3	926.4	838.3
37.5°	1943.6	1898.2	1793.0	1652.4	1393.8	1145.2	1032.9	1057.1	1052.8	1032.9	924.9
40°	2094.2	2068.7	2011.8	1946.5	1781.7	1449.2	1238.9	1219.0	1220.5	1192.0	1065.6
42.5°	2179.5	2156.8	2135.4	2152.5	2104.2	2000.5	1537.3	1446.4	1437.8	1383.8	1229.0
45°	2183.7	2149.6	2175.2	2274.7	2351.4	2489.2	1926.6	1716.3	1720.6	1631.1	1432.2
47.5°	2020.4	1993.4	2067.2	2261.9	2516.2	2808.9	2379.8	2085.7	2065.8	1889.6	1638.2
50°	1697.8	1696.4	1794.5	2070.1	2516.2	2973.7	2865.7	2519.1	2497.7	2159.6	1825.7
52.5°	1344.1	1371.1	1437.8	1699.3	2284.6	2958.1	3223.8	2966.6	2906.9	2399.7	1982.0
55°	1045.7	1035.8	1116.7	1297.2	1811.5	2688.1	3340.3	3319.0	3269.2	2612.8	2119.8
57.5°	642.2	679.1	788.5	949.1	1318.5	2114.1	3172.6	3533.5	3503.7	2811.7	2263.3
60°	333.9	362.3	480.2	647.9	900.8	1355.4	2753.5	3583.2	3588.9	2972.3	2385.5
62.5°	210.3	208.9	262.8	454.7	579.7	761.5	2138.3	3407.0	3461.0	3095.9	2502.0
65°	157.7	159.1	180.4	301.2	393.6	397.8	1268.8	2946.7	3036.2	3128.6	2541.8
67.5°	146.3	147.8	157.7	197.5	295.5	265.7	558.4	2271.8	2396.9	2827.4	2388.3
70°	130.7	132.1	147.8	163.4	223.1	194.6	251.5	1368.2	1541.6	2051.6	1911.0
72.5°	102.3	105.1	123.6	154.9	166.2	147.8	174.8	605.3	706.1	1128.1	1094.0
75°	75.3	76.7	93.8	119.3	146.3	105.1	135.0	240.1	262.8	423.4	360.9
77.5°	52.6	52.6	65.4	89.5	122.2	73.9	96.6	129.3	132.1	157.7	103.7
80°	32.7	34.1	41.2	61.1	75.3	71.0	59.7	86.7	86.7	82.4	42.6
82.5°	18.5	19.9	28.4	41.2	51.1	48.3	38.4	49.7	51.1	52.6	24.2
85°	8.5	9.9	17.0	25.6	29.8	22.7	22.7	25.6	25.6	34.1	14.2
87.5°	1.4	1.4	8.5	11.4	9.9	11.4	11.4	14.2	14.2	17.0	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P573087

CATALOG NUMBER: ARCH-S-PA2-30-750-U-T2U-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0
2.5°	447.5	447.5	447.5	446.1	446.1	444.7	441.9	441.9	441.9	441.9	443.3
5°	453.2	451.8	450.4	446.1	443.3	437.6	431.9	430.5	426.2	426.2	427.7
7.5°	460.3	460.3	456.1	449.0	441.9	431.9	422.0	414.9	407.8	406.3	404.9
10°	473.1	470.3	466.0	453.2	441.9	426.2	410.6	392.1	377.9	370.8	368.0
12.5°	483.1	481.6	473.1	458.9	440.4	416.3	380.8	338.1	304.0	285.6	285.6
15°	497.3	494.4	481.6	461.8	436.2	379.3	306.9	241.5	204.6	184.7	181.9
17.5°	511.5	505.8	490.2	463.2	417.7	312.6	214.5	154.9	129.3	119.3	116.5
20°	528.5	518.6	495.9	464.6	372.2	227.3	139.2	103.7	93.8	89.5	90.9
22.5°	551.3	534.2	501.5	456.1	304.0	147.8	98.0	83.8	78.1	73.9	73.9
25°	579.7	555.5	511.5	431.9	220.2	99.5	78.1	69.6	63.9	61.1	59.7
27.5°	605.3	575.4	521.4	389.3	140.7	78.1	65.4	58.3	52.6	51.1	49.7
30°	639.4	598.2	531.4	321.1	92.4	63.9	55.4	48.3	44.0	42.6	42.6
32.5°	697.6	642.2	549.8	244.4	69.6	55.4	46.9	41.2	38.4	36.9	36.9
35°	765.8	696.2	565.5	170.5	59.7	46.9	39.8	35.5	34.1	32.7	32.7
37.5°	836.8	760.1	568.3	108.0	52.6	41.2	35.5	32.7	29.8	29.8	29.8
40°	964.7	872.4	555.5	72.5	45.5	36.9	31.3	29.8	27.0	27.0	27.0
42.5°	1113.9	1008.8	522.8	58.3	41.2	32.7	29.8	27.0	24.2	24.2	22.7
45°	1307.1	1163.6	467.4	51.1	36.9	29.8	27.0	24.2	22.7	21.3	21.3
47.5°	1489.0	1339.8	414.9	45.5	34.1	28.4	24.2	21.3	19.9	19.9	19.9
50°	1662.3	1474.8	353.8	42.6	31.3	27.0	22.7	19.9	18.5	17.0	17.0
52.5°	1787.3	1581.3	296.9	38.4	28.4	24.2	21.3	18.5	15.6	14.2	14.2
55°	1926.6	1689.3	245.8	34.1	27.0	22.7	18.5	15.6	12.8	11.4	11.4
57.5°	2082.9	1794.5	198.9	31.3	25.6	19.9	15.6	12.8	9.9	8.5	8.5
60°	2237.7	1878.3	159.1	28.4	22.7	18.5	14.2	9.9	7.1	5.7	5.7
62.5°	2392.6	1935.1	122.2	25.6	21.3	15.6	11.4	7.1	4.3	2.8	2.8
65°	2456.5	1919.5	90.9	22.7	18.5	12.8	9.9	7.1	4.3	2.8	2.8
67.5°	2278.9	1726.3	63.9	22.7	17.0	12.8	8.5	5.7	2.8	1.4	1.4
70°	1778.8	1332.7	46.9	22.7	17.0	12.8	8.5	5.7	2.8	1.4	1.4
72.5°	1008.8	741.7	35.5	19.9	15.6	11.4	8.5	5.7	2.8	1.4	1.4
75°	359.5	238.7	27.0	18.5	14.2	9.9	8.5	5.7	2.8	1.4	1.4
77.5°	86.7	61.1	21.3	15.6	12.8	9.9	7.1	5.7	4.3	1.4	1.4
80°	35.5	25.6	17.0	12.8	9.9	8.5	7.1	5.7	2.8	1.4	1.4
82.5°	15.6	12.8	7.1	7.1	5.7	5.7	5.7	5.7	2.8	1.4	1.4
85°	7.1	5.7	2.8	2.8	1.4	1.4	1.4	2.8	2.8	1.4	1.4
87.5°	4.3	2.8	2.8	2.8	1.4	1.4	1.4	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)