

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: P572983

Luminaire Tested: **ARCH-S-PA2-20-730-U-T4W-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572983  
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-PA2-20-730-U-T4W-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 220mA 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: 2465 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

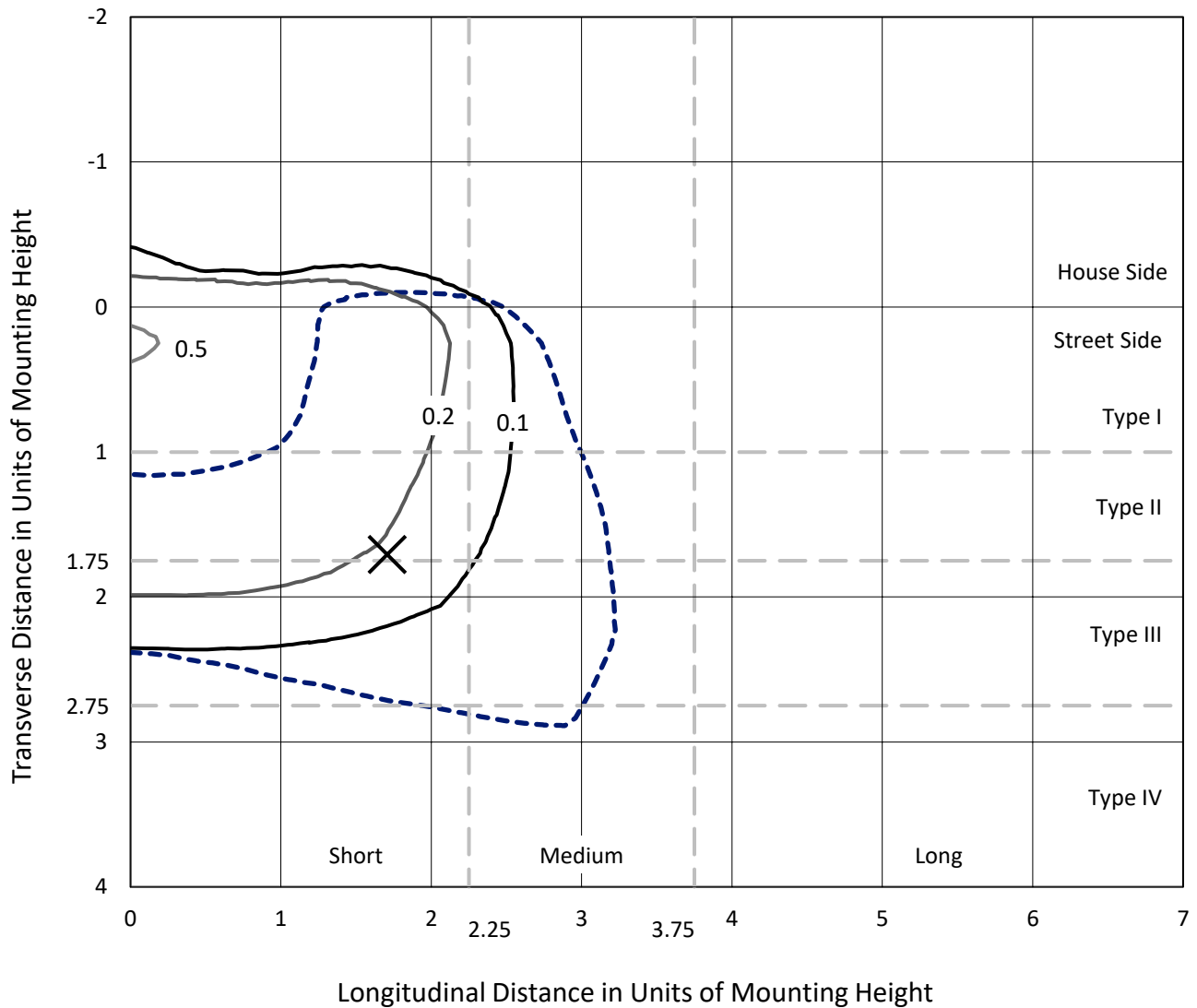
Input Watts (W): 23.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

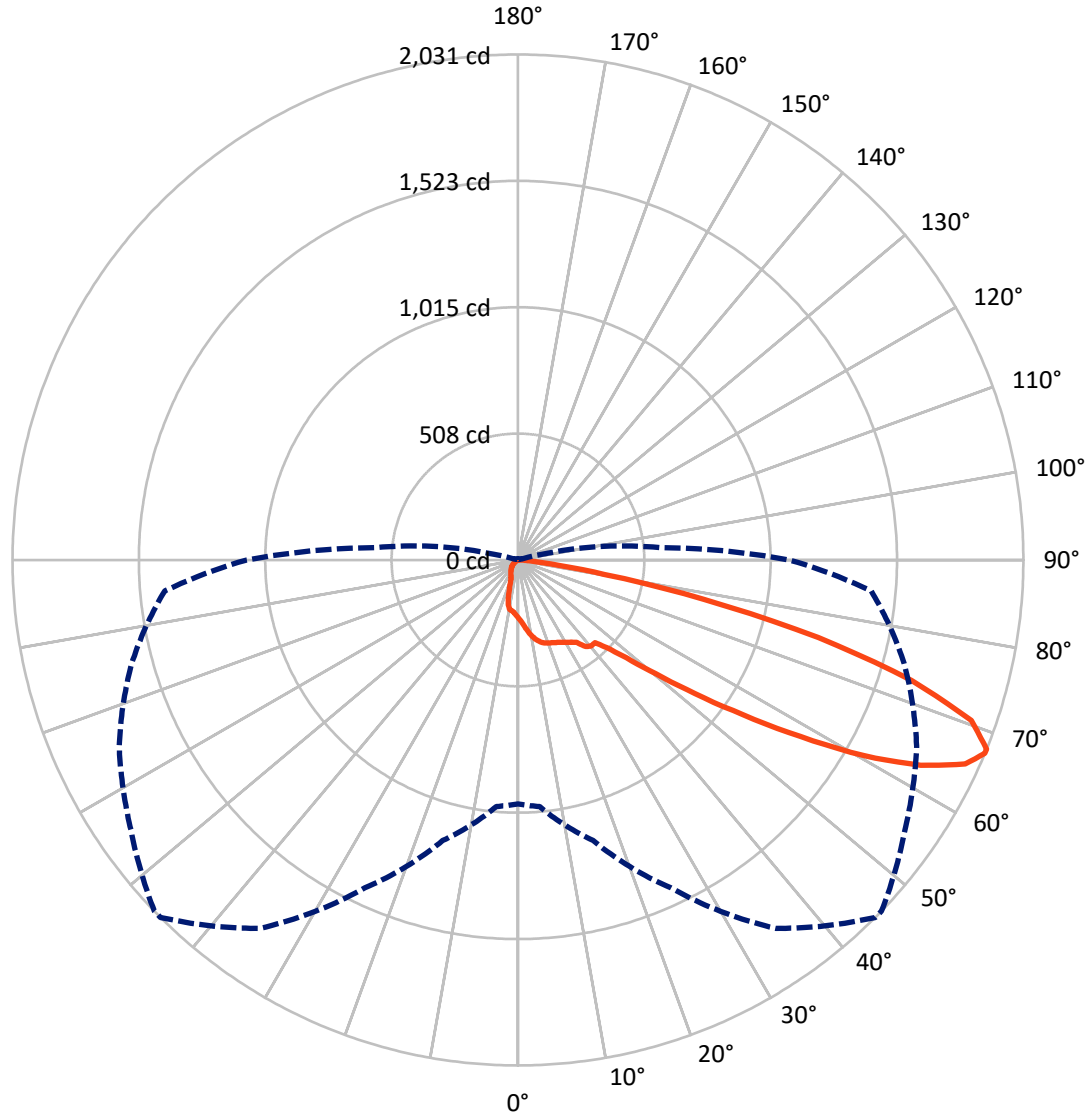
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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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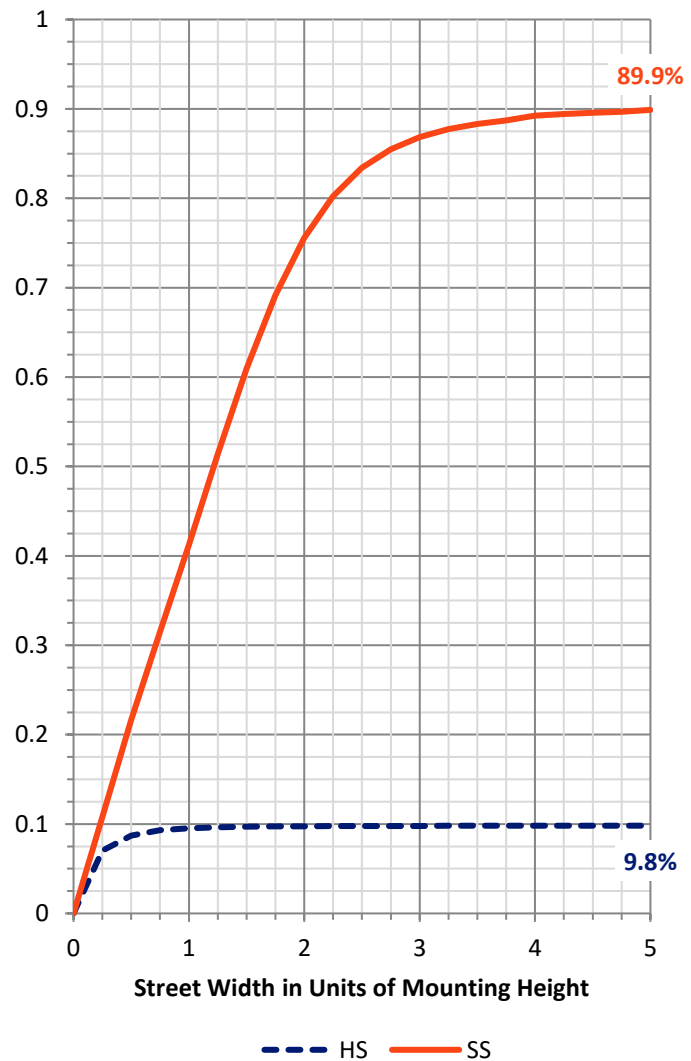
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	244.2	0.0	244.2
	% Fixture	9.9	0.0	9.9
<b>Street Side</b>	Lumens	2220.8	0.0	2220.8
	% Fixture	90.1	0.0	90.1
<b>Total</b>	Lumens	2465.0	0.0	2465.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.4	0.9
10°-20°	70.7	2.9
20°-30°	113.1	4.6
30°-40°	162.8	6.6
40°-50°	285.7	11.6
50°-60°	602.0	24.4
60°-70°	832.4	33.8
70°-80°	348.5	14.1
80°-90°	26.3	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°	2465.0	100.0
0°-180°	2465.0	100.0

**Coefficient of Utilization**



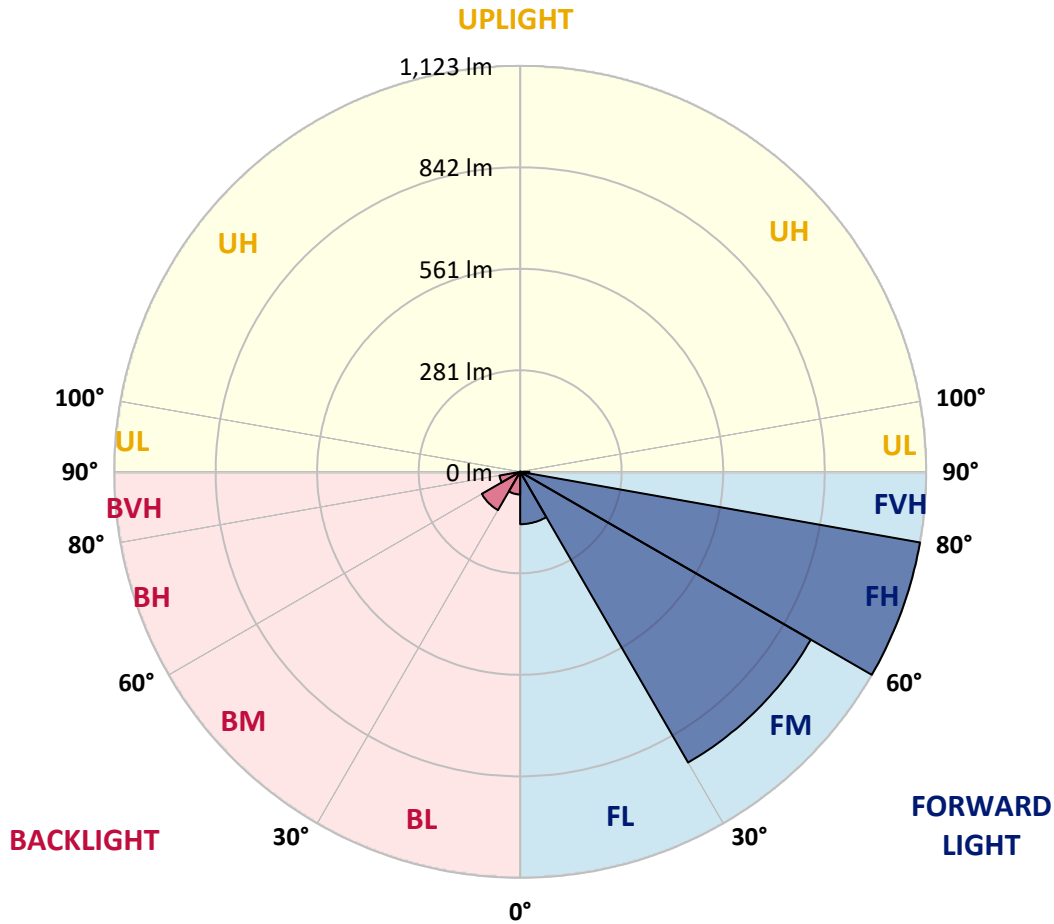
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	144.7	5.9			
FM (30°-60°)	928.1	37.7			
FH (60°-80°)	1122.5	45.5			G1/1800
FVH (80°-90°)	25.5	1.0			G1/100
BL (0°-30°)	62.6	2.5	B0/110		
BM (30°-60°)	122.4	5.0	B0/220		
BH (60°-80°)	58.4	2.4	B0/110		G0/110
BVH (80°-90°)	0.9	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-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1
2.5°	259.5	255.0	254.1	253.2	250.4	246.8	247.7	245.0	240.4	237.7	234.9
5°	291.4	286.9	285.0	279.6	274.1	265.9	265.9	258.6	250.4	243.1	235.9
7.5°	324.2	320.5	316.9	308.7	300.5	289.6	288.7	277.7	265.0	254.1	242.2
10°	351.5	348.8	344.2	334.2	323.3	311.4	308.7	298.7	282.3	267.7	252.2
12.5°	373.4	370.6	364.3	354.2	340.6	328.7	327.8	315.1	298.7	283.2	264.1
15°	389.8	385.2	377.9	367.0	353.3	342.4	340.6	329.6	314.2	296.9	274.1
17.5°	392.5	389.8	383.4	371.5	359.7	350.6	349.7	341.5	327.8	309.6	285.9
20°	385.2	384.3	378.8	369.7	360.6	356.1	355.1	349.7	338.8	322.4	298.7
22.5°	374.3	373.4	369.7	365.2	361.5	360.6	360.6	358.8	352.4	336.9	315.1
25°	367.0	366.1	364.3	361.5	361.5	367.0	367.9	369.7	364.3	352.4	328.7
27.5°	367.9	366.1	364.3	361.5	365.2	375.2	376.1	380.6	376.1	365.2	344.2
30°	380.6	377.9	372.4	366.1	370.6	384.3	385.2	390.7	387.0	381.6	361.5
32.5°	400.7	398.9	387.9	377.0	379.7	393.4	395.2	405.2	409.8	401.6	377.0
35°	429.8	423.4	409.8	398.9	397.0	407.1	409.8	426.2	438.0	418.0	386.1
37.5°	453.5	448.0	426.2	408.9	418.9	441.7	442.6	462.6	452.6	419.8	400.7
40°	533.6	532.7	494.5	439.8	428.9	454.4	458.0	461.7	457.1	440.7	432.6
42.5°	662.9	652.0	609.2	525.4	450.8	453.5	455.3	474.4	498.1	490.8	493.6
45°	803.2	794.1	745.8	640.2	525.4	502.7	504.5	535.5	581.0	590.1	604.7
47.5°	932.5	917.9	890.6	784.1	652.9	586.4	590.1	627.4	703.0	723.0	745.8
50°	1041.8	1031.7	1006.3	936.1	809.6	718.5	722.1	753.1	851.4	883.3	912.5
52.5°	1200.2	1186.6	1137.4	1104.6	1009.0	890.6	882.4	915.2	1028.1	1049.1	1088.2
55°	1345.9	1317.7	1288.5	1274.9	1234.8	1096.4	1093.7	1100.0	1193.8	1204.8	1274.9
57.5°	1407.8	1402.4	1427.0	1472.5	1481.6	1338.6	1326.8	1302.2	1376.0	1375.1	1457.0
60°	1447.0	1447.0	1512.6	1625.5	1698.3	1597.3	1580.9	1504.4	1530.8	1531.7	1607.3
62.5°	1422.4	1428.8	1530.8	1701.1	1847.7	1816.7	1805.8	1677.4	1675.6	1654.6	1681.0
65°	1270.3	1281.3	1445.2	1659.2	1902.3	1975.2	1970.6	1824.9	1772.1	1695.6	1636.4
67°	1036.3	1056.3	1254.9	1508.0	1840.4	2029.8	2030.7	1888.7	1773.0	1627.3	1478.9
67.5°	979.8	994.4	1166.5	1453.4	1806.7	2030.7	2030.7	1896.9	1767.5	1606.4	1424.2
70°	624.7	628.3	815.9	1124.6	1543.5	1932.4	1939.7	1834.9	1610.0	1300.4	999.9
72.5°	308.7	300.5	430.7	724.0	1158.3	1653.7	1672.8	1567.2	1274.0	849.6	528.2
75°	121.1	129.3	187.6	385.2	725.8	1246.7	1261.2	1140.1	819.6	438.0	208.5
77.5°	53.7	53.7	80.1	173.0	381.6	764.9	772.2	695.7	432.6	180.3	63.7
80°	29.1	31.0	41.9	75.6	192.1	351.5	383.4	345.1	195.8	79.2	21.9
82.5°	14.6	15.5	25.5	42.8	96.5	133.0	140.2	146.6	90.2	49.2	9.1
85°	5.5	6.4	13.7	24.6	43.7	44.6	44.6	57.4	49.2	37.3	4.6
87.5°	0.9	1.8	6.4	10.0	17.3	15.5	13.7	18.2	27.3	23.7	2.7
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°	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1
2.5°	233.1	231.3	227.7	224.9	223.1	221.3	219.5	219.5	218.6	218.6	219.5
5°	233.1	229.5	222.2	217.6	214.0	211.3	209.4	209.4	208.5	209.4	210.4
7.5°	237.7	232.2	222.2	214.0	209.4	204.9	203.1	202.2	202.2	203.1	202.2
10°	245.0	237.7	224.9	214.0	207.6	201.3	191.2	182.1	173.9	170.3	169.4
12.5°	254.1	245.0	229.5	216.7	206.7	184.9	157.5	140.2	129.3	123.8	122.0
15°	264.1	253.2	234.9	220.4	193.1	152.1	116.6	97.4	91.1	92.0	92.9
17.5°	275.0	263.2	243.1	218.6	165.7	112.9	85.6	81.0	83.8	86.5	86.5
20°	285.9	273.2	251.3	204.9	130.2	83.8	76.5	77.4	80.1	82.9	82.9
22.5°	300.5	286.9	259.5	181.2	96.5	72.9	72.9	74.7	76.5	79.2	79.2
25°	316.0	302.3	265.0	152.1	71.9	68.3	69.2	71.0	72.9	75.6	75.6
27.5°	332.4	318.7	264.1	117.5	62.8	62.8	63.7	66.5	68.3	71.0	71.0
30°	350.6	338.8	254.1	85.6	58.3	57.4	57.4	60.1	62.8	64.7	65.6
32.5°	366.1	356.1	236.8	64.7	54.6	52.8	51.9	52.8	55.5	57.4	58.3
35°	378.8	375.2	211.3	55.5	51.0	48.3	46.4	45.5	46.4	46.4	47.4
37.5°	402.5	403.4	181.2	51.9	48.3	44.6	41.0	38.2	36.4	35.5	34.6
40°	447.1	446.2	149.3	49.2	45.5	41.0	35.5	31.9	27.3	25.5	25.5
42.5°	510.0	496.3	113.8	46.4	42.8	37.3	30.1	24.6	20.0	19.1	19.1
45°	622.9	566.4	85.6	44.6	40.1	32.8	24.6	18.2	15.5	14.6	14.6
47.5°	747.6	647.5	68.3	41.9	37.3	29.1	19.1	14.6	11.8	11.8	11.8
50°	885.1	724.9	57.4	39.2	32.8	24.6	15.5	11.8	10.9	10.0	10.9
52.5°	1035.4	785.9	50.1	35.5	28.2	20.0	12.7	10.9	9.1	9.1	9.1
55°	1170.2	826.9	41.9	31.0	23.7	16.4	11.8	9.1	8.2	7.3	6.4
57.5°	1292.2	848.7	33.7	26.4	18.2	13.7	10.0	7.3	6.4	4.6	4.6
60°	1355.0	828.7	26.4	20.9	14.6	10.9	8.2	6.4	4.6	2.7	2.7
62.5°	1365.0	776.8	20.9	16.4	12.7	9.1	6.4	4.6	2.7	1.8	1.8
65°	1277.6	685.7	17.3	13.7	10.0	7.3	5.5	3.6	1.8	0.9	0.9
67°	1121.0	590.1	15.5	11.8	9.1	6.4	4.6	2.7	1.8	0.9	0.0
67.5°	1090.0	572.8	14.6	11.8	9.1	6.4	4.6	2.7	1.8	0.9	0.0
70°	715.8	396.1	13.7	10.9	8.2	5.5	3.6	2.7	0.9	0.0	0.0
72.5°	390.7	199.4	12.7	10.0	7.3	5.5	3.6	1.8	0.9	0.0	0.0
75°	143.0	75.6	10.9	9.1	6.4	5.5	3.6	1.8	0.9	0.0	0.0
77.5°	48.3	26.4	10.0	9.1	7.3	5.5	3.6	1.8	0.9	0.0	0.0
80°	16.4	11.8	8.2	7.3	5.5	4.6	3.6	1.8	0.9	0.0	0.0
82.5°	6.4	3.6	2.7	2.7	2.7	3.6	3.6	2.7	0.9	0.0	0.0
85°	2.7	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0
87.5°	2.7	1.8	0.9	0.9	0.9	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)