

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: P573114

Luminaire Tested: **ARCH-S-PA2-30-830-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573114
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-PA2-30-830-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 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: 2864 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

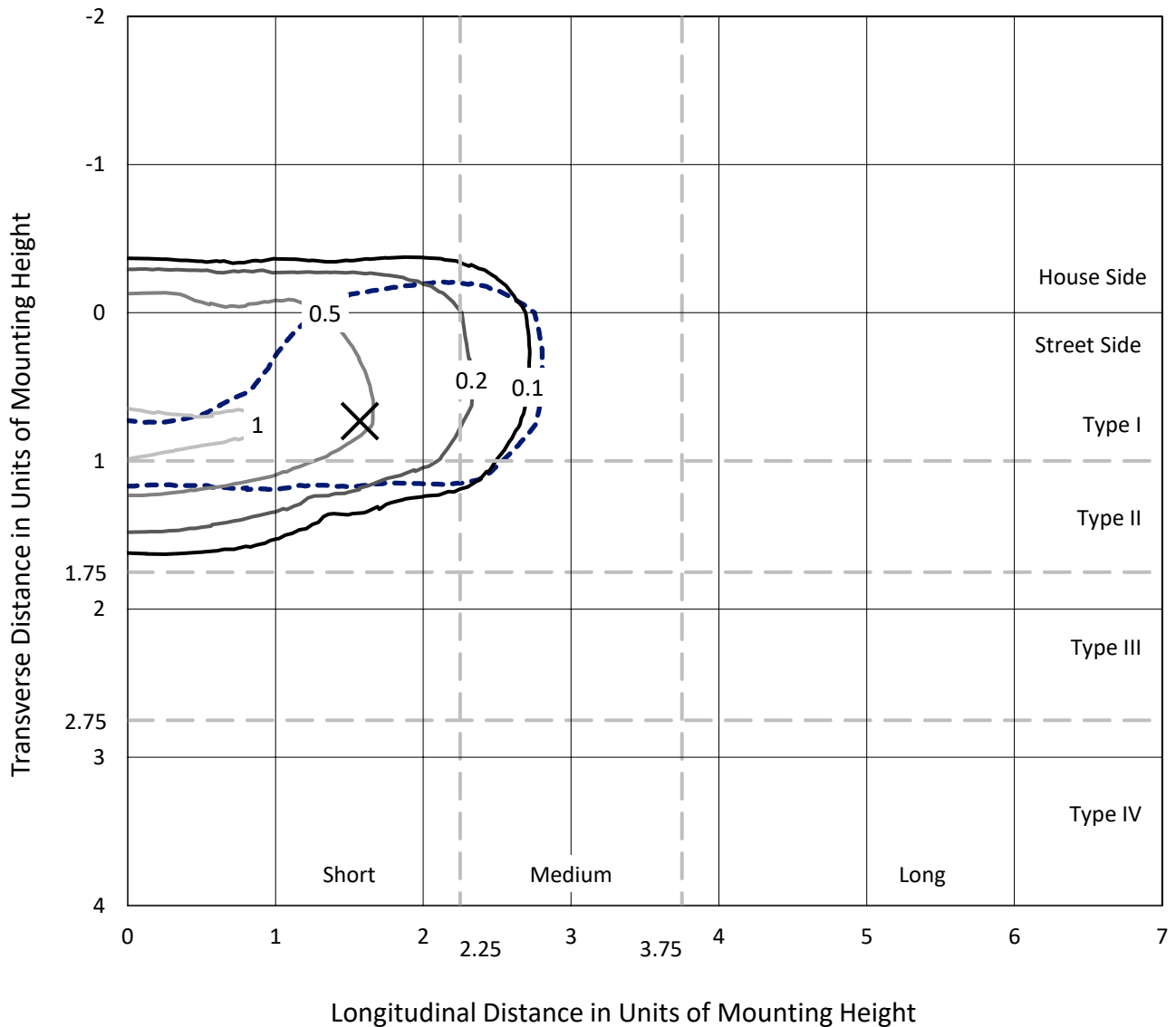
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

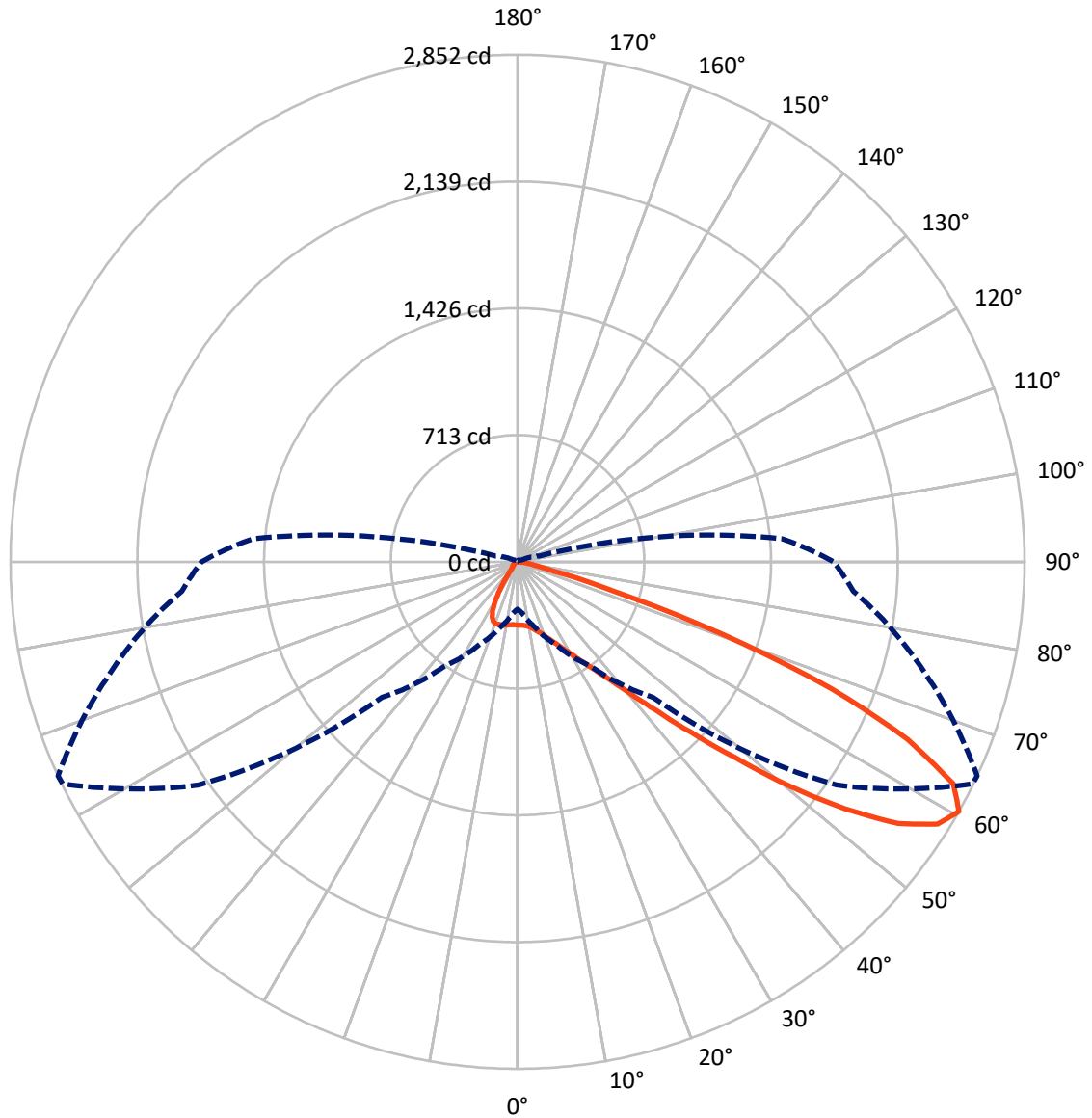
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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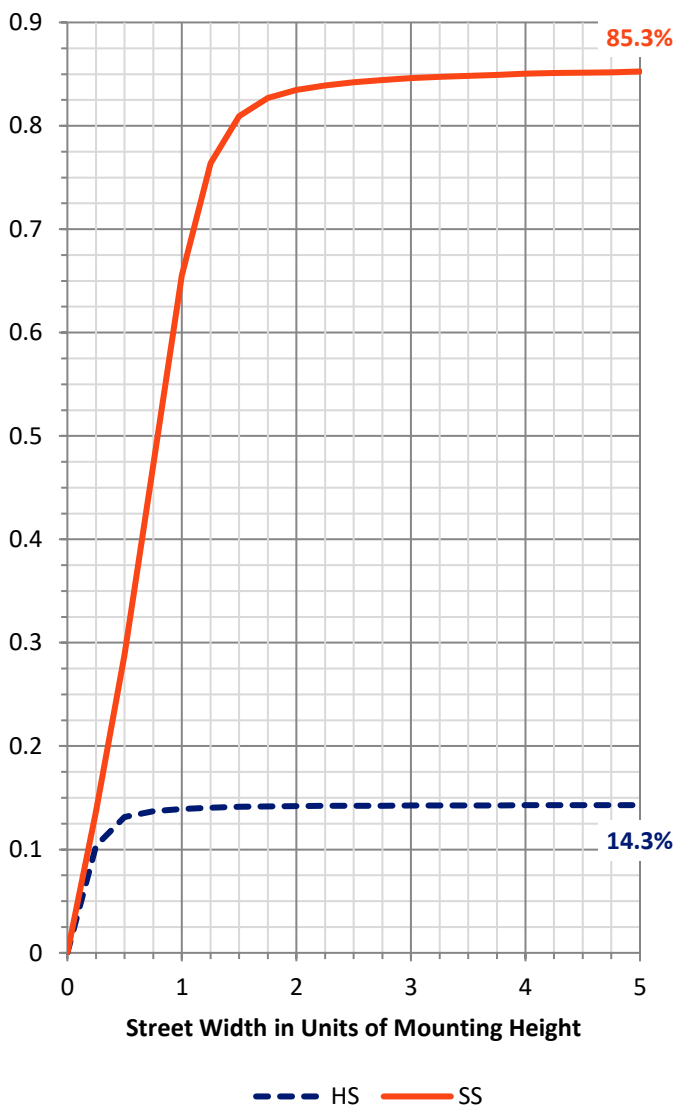
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	414.6	0.0	414.6
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	2449.4	0.0	2449.4
	% Fixture	85.5	0.0	85.5
Total	Lumens	2864.0	0.0	2864.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.7	1.2
10°-20°	95.7	3.3
20°-30°	162.5	5.7
30°-40°	335.3	11.7
40°-50°	674.4	23.5
50°-60°	825.2	28.8
60°-70°	583.8	20.4
70°-80°	140.7	4.9
80°-90°	12.7	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°	2864.0	100.0
0°-180°	2864.0	100.0

Coefficient of Utilization

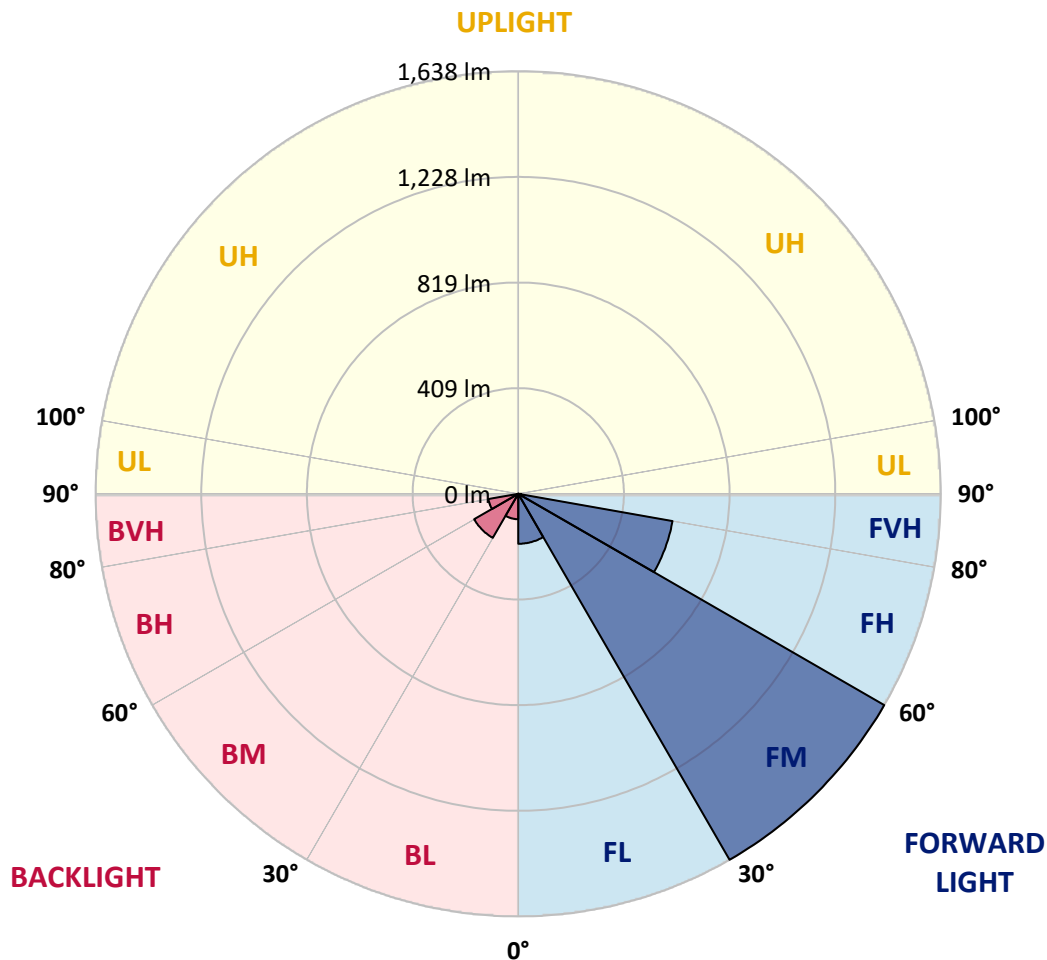


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	193.6	6.8			
FM (30°-60°)	1637.8	57.2			
FH (60°-80°)	607.0	21.2			G0/660
FVH (80°-90°)	11.1	0.4			G1/100
BL (0°-30°)	98.3	3.4	B0/110		
BM (30°-60°)	197.2	6.9	B0/220		
BH (60°-80°)	117.5	4.1	B1/500		G1/500
BVH (80°-90°)	1.7	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°	356.8	356.8	356.8	356.8	356.8	356.8	356.8	356.8	356.8	356.8	356.8
2.5°	357.9	356.8	356.8	356.8	357.9	357.9	359.0	356.8	356.8	356.8	356.8
5°	355.7	354.5	354.5	355.7	356.8	356.8	359.0	359.0	359.0	360.2	360.2
7.5°	360.2	357.9	357.9	359.0	360.2	360.2	362.4	363.6	363.6	365.8	366.9
10°	365.8	364.7	364.7	366.9	369.2	369.2	372.6	372.6	372.6	374.8	376.0
12.5°	373.7	372.6	372.6	376.0	379.4	381.6	383.9	385.0	386.1	386.1	386.1
15°	385.0	383.9	383.9	387.3	391.8	397.4	400.8	400.8	403.1	401.9	397.4
17.5°	400.8	399.7	400.8	403.1	408.7	414.4	421.1	422.3	421.1	418.9	412.1
20°	426.8	423.4	425.7	431.3	431.3	434.7	443.7	447.1	448.2	441.5	429.0
22.5°	453.9	453.9	456.1	462.9	458.4	462.9	470.8	476.5	478.7	473.1	452.8
25°	504.7	506.9	503.6	501.3	490.0	492.3	502.4	513.7	513.7	509.2	479.9
27.5°	616.5	614.2	590.5	557.8	528.4	530.7	540.8	555.5	556.6	546.5	506.9
30°	776.8	779.1	732.8	658.2	593.9	576.9	588.2	605.2	607.4	590.5	541.9
32.5°	1027.4	1008.3	922.4	823.1	702.3	641.3	645.8	663.9	670.7	656.0	597.3
35°	1351.5	1306.3	1177.6	1054.5	879.5	756.5	721.5	740.7	744.1	736.1	666.1
37.5°	1544.6	1508.4	1424.9	1313.1	1107.6	910.0	820.8	840.0	836.6	820.8	735.0
40°	1664.2	1643.9	1598.7	1546.8	1415.8	1151.6	984.5	968.7	969.9	947.3	846.8
42.5°	1732.0	1713.9	1697.0	1710.5	1672.1	1589.7	1221.6	1149.4	1142.6	1099.7	976.6
45°	1735.4	1708.3	1728.6	1807.6	1868.6	1978.1	1531.0	1363.9	1367.3	1296.2	1138.1
47.5°	1605.5	1584.1	1642.8	1797.5	1999.6	2232.2	1891.2	1657.5	1641.7	1501.6	1301.8
50°	1349.2	1348.1	1426.0	1645.0	1999.6	2363.1	2277.3	2001.8	1984.9	1716.2	1450.8
52.5°	1068.1	1089.5	1142.6	1350.4	1815.5	2350.7	2561.8	2357.5	2310.1	1907.0	1575.0
55°	831.0	823.1	887.4	1030.8	1439.6	2136.2	2654.4	2637.5	2598.0	2076.3	1684.6
57.5°	510.3	539.7	626.6	754.2	1047.8	1680.0	2521.2	2808.0	2784.3	2234.4	1798.6
60°	265.3	287.9	381.6	514.9	715.8	1077.1	2188.1	2847.5	2852.0	2362.0	1895.7
62.5°	167.1	166.0	208.9	361.3	460.7	605.2	1699.2	2707.5	2750.4	2460.2	1988.3
65°	125.3	126.5	143.4	239.4	312.7	316.1	1008.3	2341.7	2412.8	2486.2	2019.9
67.5°	116.3	117.4	125.3	156.9	234.8	211.1	443.7	1805.4	1904.7	2246.8	1897.9
70°	103.9	105.0	117.4	129.8	177.3	154.7	199.8	1087.3	1225.0	1630.4	1518.6
72.5°	81.3	83.6	98.2	123.1	132.1	117.4	138.9	481.0	561.1	896.5	869.4
75°	59.8	61.0	74.5	94.8	116.3	83.6	107.3	190.8	208.9	336.5	286.8
77.5°	41.8	41.8	51.9	71.1	97.1	58.7	76.8	102.7	105.0	125.3	82.4
80°	26.0	27.1	32.7	48.5	59.8	56.5	47.4	68.9	68.9	65.5	33.9
82.5°	14.7	15.8	22.6	32.7	40.6	38.4	30.5	39.5	40.6	41.8	19.2
85°	6.8	7.9	13.5	20.3	23.7	18.1	18.1	20.3	20.3	27.1	11.3
87.5°	1.1	1.1	6.8	9.0	7.9	9.0	9.0	11.3	11.3	13.5	5.6
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°	356.8	356.8	356.8	356.8	356.8	356.8	356.8	356.8	356.8	356.8	356.8
2.5°	355.7	355.7	355.7	354.5	354.5	353.4	351.1	351.1	351.1	351.1	352.3
5°	360.2	359.0	357.9	354.5	352.3	347.8	343.2	342.1	338.7	338.7	339.8
7.5°	365.8	365.8	362.4	356.8	351.1	343.2	335.3	329.7	324.0	322.9	321.8
10°	376.0	373.7	370.3	360.2	351.1	338.7	326.3	311.6	300.3	294.7	292.4
12.5°	383.9	382.8	376.0	364.7	350.0	330.8	302.6	268.7	241.6	226.9	226.9
15°	395.2	392.9	382.8	366.9	346.6	301.5	243.9	191.9	162.6	146.8	144.5
17.5°	406.5	401.9	389.5	368.1	331.9	248.4	170.5	123.1	102.7	94.8	92.6
20°	420.0	412.1	394.0	369.2	295.8	180.6	110.6	82.4	74.5	71.1	72.3
22.5°	438.1	424.5	398.6	362.4	241.6	117.4	77.9	66.6	62.1	58.7	58.7
25°	460.7	441.5	406.5	343.2	175.0	79.0	62.1	55.3	50.8	48.5	47.4
27.5°	481.0	457.3	414.4	309.4	111.8	62.1	51.9	46.3	41.8	40.6	39.5
30°	508.1	475.3	422.3	255.2	73.4	50.8	44.0	38.4	35.0	33.9	33.9
32.5°	554.4	510.3	436.9	194.2	55.3	44.0	37.3	32.7	30.5	29.4	29.4
35°	608.6	553.2	449.4	135.5	47.4	37.3	31.6	28.2	27.1	26.0	26.0
37.5°	665.0	604.0	451.6	85.8	41.8	32.7	28.2	26.0	23.7	23.7	23.7
40°	766.6	693.2	441.5	57.6	36.1	29.4	24.8	23.7	21.5	21.5	21.5
42.5°	885.2	801.6	415.5	46.3	32.7	26.0	23.7	21.5	19.2	19.2	18.1
45°	1038.7	924.7	371.5	40.6	29.4	23.7	21.5	19.2	18.1	16.9	16.9
47.5°	1183.3	1064.7	329.7	36.1	27.1	22.6	19.2	16.9	15.8	15.8	15.8
50°	1321.0	1172.0	281.1	33.9	24.8	21.5	18.1	15.8	14.7	13.5	13.5
52.5°	1420.4	1256.6	236.0	30.5	22.6	19.2	16.9	14.7	12.4	11.3	11.3
55°	1531.0	1342.5	195.3	27.1	21.5	18.1	14.7	12.4	10.2	9.0	9.0
57.5°	1655.2	1426.0	158.1	24.8	20.3	15.8	12.4	10.2	7.9	6.8	6.8
60°	1778.3	1492.6	126.5	22.6	18.1	14.7	11.3	7.9	5.6	4.5	4.5
62.5°	1901.3	1537.8	97.1	20.3	16.9	12.4	9.0	5.6	3.4	2.3	2.3
65°	1952.1	1525.4	72.3	18.1	14.7	10.2	7.9	5.6	3.4	2.3	2.3
67.5°	1811.0	1371.8	50.8	18.1	13.5	10.2	6.8	4.5	2.3	1.1	1.1
70°	1413.6	1059.1	37.3	18.1	13.5	10.2	6.8	4.5	2.3	1.1	1.1
72.5°	801.6	589.4	28.2	15.8	12.4	9.0	6.8	4.5	2.3	1.1	1.1
75°	285.7	189.7	21.5	14.7	11.3	7.9	6.8	4.5	2.3	1.1	1.1
77.5°	68.9	48.5	16.9	12.4	10.2	7.9	5.6	4.5	3.4	1.1	1.1
80°	28.2	20.3	13.5	10.2	7.9	6.8	5.6	4.5	2.3	1.1	1.1
82.5°	12.4	10.2	5.6	5.6	4.5	4.5	4.5	4.5	2.3	1.1	1.1
85°	5.6	4.5	2.3	2.3	1.1	1.1	1.1	2.3	2.3	1.1	1.1
87.5°	3.4	2.3	2.3	2.3	1.1	1.1	1.1	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)