

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: P573199

Luminaire Tested: **ARCH-S-PA2-40-830-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573199
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-PA2-40-830-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 420mA 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: 3902 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

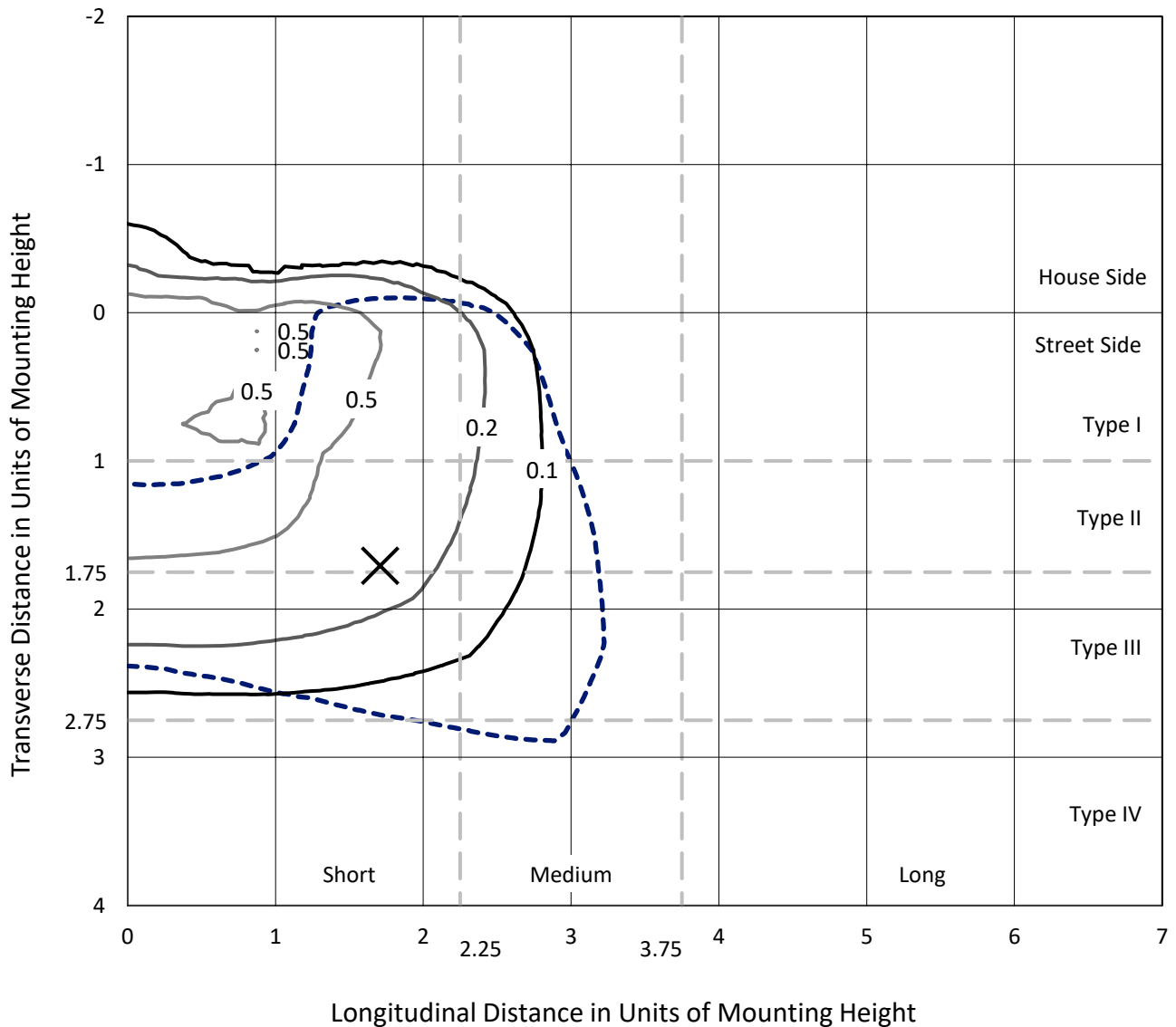
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P573199
 CATALOG NUMBER: ARCH-S-PA2-40-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

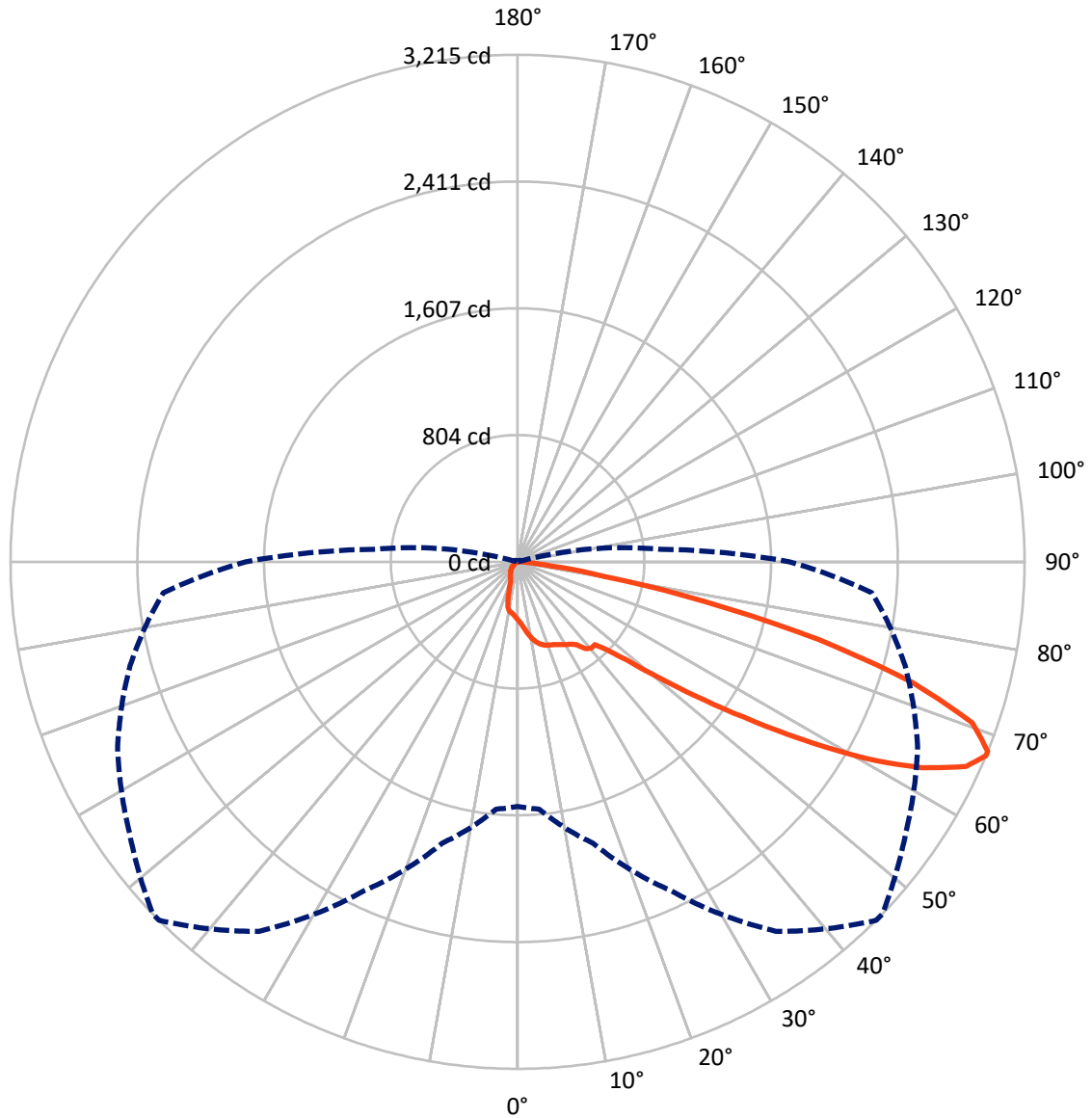
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Short - N/A

REPORT NUMBER: P573199
CATALOG NUMBER: ARCH-S-PA2-40-830-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: ARCH-S-PA2-40-830-U-T4W-HSS

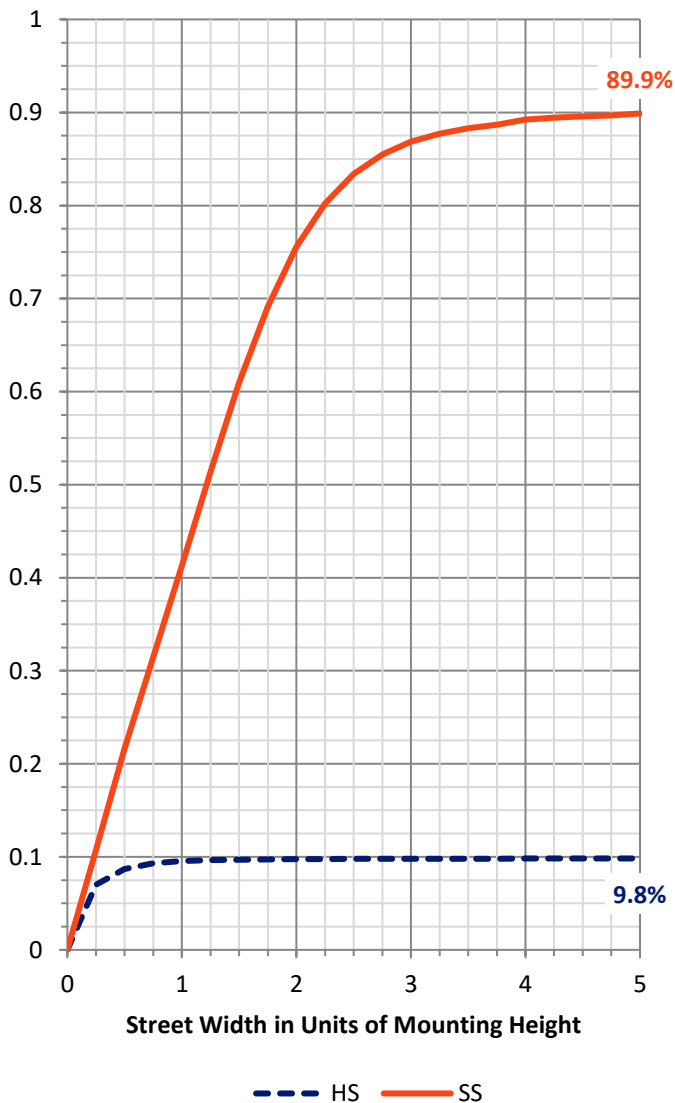
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	386.6	0.0	386.6
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	3515.4	0.0	3515.4
	% Fixture	90.1	0.0	90.1
Total	Lumens	3902.0	0.0	3902.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.0	0.9
10°-20°	112.0	2.9
20°-30°	179.1	4.6
30°-40°	257.8	6.6
40°-50°	452.2	11.6
50°-60°	952.9	24.4
60°-70°	1317.7	33.8
70°-80°	551.6	14.1
80°-90°	41.7	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°	3902.0	100.0
0°-180°	3902.0	100.0

Coefficient of Utilization



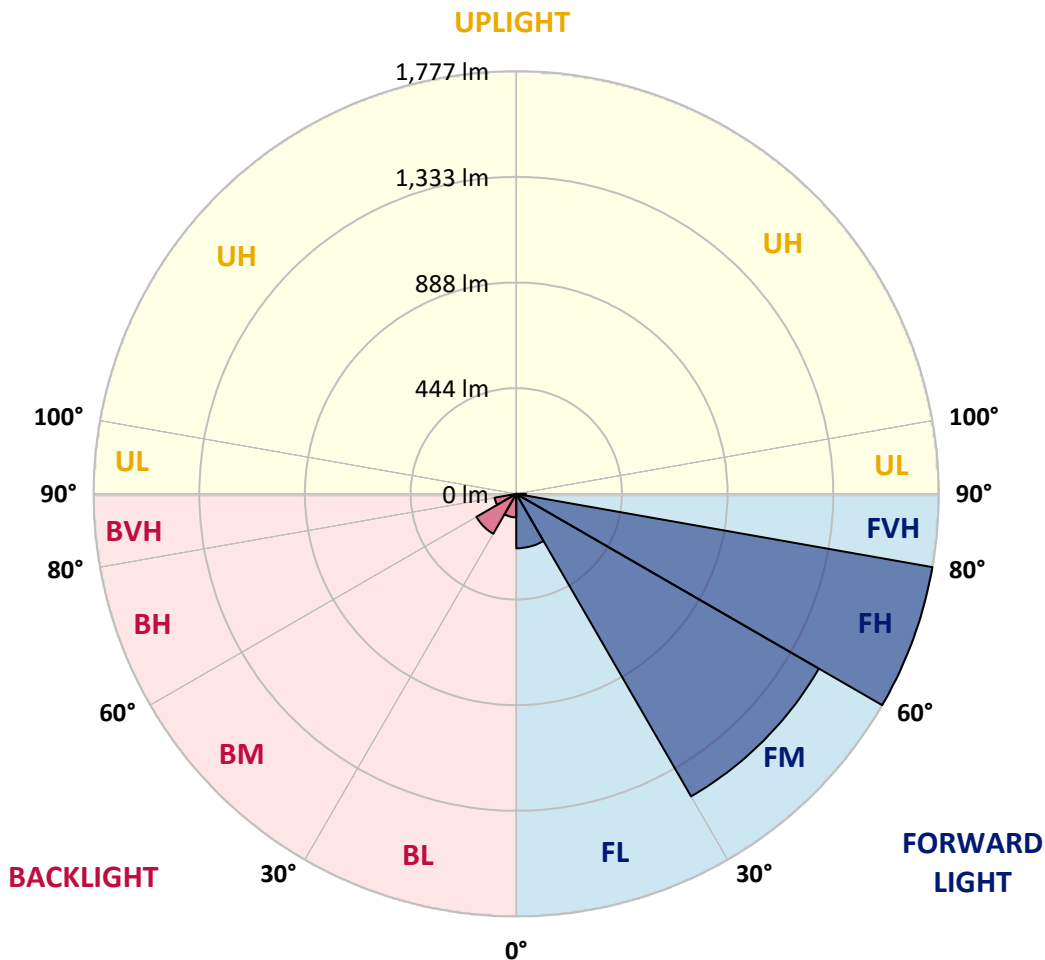
REPORT NUMBER: P573199
 CATALOG NUMBER: ARCH-S-PA2-40-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	229.0	5.9			
FM (30°-60°)	1469.2	37.7			
FH (60°-80°)	1776.9	45.5			G1/1800
FVH (80°-90°)	40.3	1.0			G1/100
BL (0°-30°)	99.1	2.5	B0/110		
BM (30°-60°)	193.7	5.0	B0/220		
BH (60°-80°)	92.4	2.4	B0/110		G0/110
BVH (80°-90°)	1.4	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





REPORT NUMBER: P573199

CATALOG NUMBER: ARCH-S-PA2-40-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0
2.5°	410.8	403.6	402.2	400.7	396.4	390.6	392.1	387.8	380.6	376.2	371.9
5°	461.3	454.1	451.2	442.5	433.9	420.9	420.9	409.4	396.4	384.9	373.3
7.5°	513.2	507.4	501.6	488.7	475.7	458.4	457.0	439.7	419.5	402.2	383.4
10°	556.4	552.1	544.9	529.0	511.7	493.0	488.7	472.8	446.9	423.8	399.3
12.5°	591.0	586.7	576.6	560.7	539.1	520.4	518.9	498.8	472.8	448.3	418.0
15°	617.0	609.8	598.2	580.9	559.3	542.0	539.1	521.8	497.3	469.9	433.9
17.5°	621.3	617.0	606.9	588.1	569.4	555.0	553.5	540.6	518.9	490.1	452.6
20°	609.8	608.3	599.7	585.2	570.8	563.6	562.2	553.5	536.2	510.3	472.8
22.5°	592.5	591.0	585.2	578.0	572.3	570.8	570.8	568.0	557.9	533.4	498.8
25°	580.9	579.5	576.6	572.3	572.3	580.9	582.4	585.2	576.6	557.9	520.4
27.5°	582.4	579.5	576.6	572.3	578.0	593.9	595.3	602.5	595.3	578.0	544.9
30°	602.5	598.2	589.6	579.5	586.7	608.3	609.8	618.4	612.6	604.0	572.3
32.5°	634.3	631.4	614.1	596.8	601.1	622.7	625.6	641.5	648.7	635.7	596.8
35°	680.4	670.3	648.7	631.4	628.5	644.4	648.7	674.6	693.4	661.6	611.2
37.5°	717.9	709.2	674.6	647.2	663.1	699.1	700.6	732.3	716.4	664.5	634.3
40°	844.7	843.3	782.7	696.2	678.9	719.3	725.1	730.8	723.6	697.7	684.7
42.5°	1049.4	1032.1	964.4	831.7	713.5	717.9	720.8	751.0	788.5	777.0	781.3
45°	1271.4	1257.0	1180.6	1013.4	831.7	795.7	798.6	847.6	919.7	934.1	957.2
47.5°	1476.1	1453.0	1409.8	1241.1	1033.6	928.3	934.1	993.2	1112.8	1144.6	1180.6
50°	1649.1	1633.2	1592.9	1481.9	1281.5	1137.3	1143.1	1192.1	1347.8	1398.3	1444.4
52.5°	1899.9	1878.3	1800.4	1748.5	1597.2	1409.8	1396.8	1448.7	1627.5	1660.6	1722.6
55°	2130.5	2085.9	2039.7	2018.1	1954.7	1735.6	1731.2	1741.3	1889.8	1907.1	2018.1
57.5°	2228.6	2219.9	2258.8	2330.9	2345.3	2119.0	2100.3	2061.3	2178.1	2176.7	2306.4
60°	2290.5	2290.5	2394.3	2573.1	2688.4	2528.4	2502.4	2381.4	2423.2	2424.6	2544.2
62.5°	2251.6	2261.7	2423.2	2692.7	2924.8	2875.8	2858.5	2655.2	2652.4	2619.2	2661.0
65°	2010.9	2028.2	2287.7	2626.4	3011.3	3126.6	3119.4	2888.8	2805.2	2684.1	2590.4
67°	1640.4	1672.1	1986.4	2387.1	2913.3	3213.1	3214.5	2989.7	2806.6	2576.0	2341.0
67.5°	1551.1	1574.1	1846.6	2300.6	2859.9	3214.5	3214.5	3002.6	2798.0	2542.8	2254.5
70°	988.9	994.6	1291.6	1780.3	2443.3	3058.9	3070.4	2904.6	2548.6	2058.5	1582.8
72.5°	488.7	475.7	681.8	1146.0	1833.6	2617.8	2648.0	2480.8	2016.7	1344.9	836.1
75°	191.7	204.7	296.9	609.8	1148.9	1973.4	1996.5	1804.8	1297.4	693.4	330.1
77.5°	85.0	85.0	126.9	273.9	604.0	1210.9	1222.4	1101.3	684.7	285.4	100.9
80°	46.1	49.0	66.3	119.6	304.2	556.4	606.9	546.3	309.9	125.4	34.6
82.5°	23.1	24.5	40.4	67.8	152.8	210.5	222.0	232.1	142.7	77.8	14.4
85°	8.6	10.1	21.6	38.9	69.2	70.6	70.6	90.8	77.8	59.1	7.2
87.5°	1.4	2.9	10.1	15.9	27.4	24.5	21.6	28.8	43.2	37.5	4.3
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: P573199
 CATALOG NUMBER: ARCH-S-PA2-40-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0
2.5°	369.0	366.1	360.4	356.1	353.2	350.3	347.4	347.4	346.0	346.0	347.4
5°	369.0	363.3	351.7	344.5	338.8	334.4	331.5	331.5	330.1	331.5	333.0
7.5°	376.2	367.6	351.7	338.8	331.5	324.3	321.5	320.0	320.0	321.5	320.0
10°	387.8	376.2	356.1	338.8	328.7	318.6	302.7	288.3	275.3	269.6	268.1
12.5°	402.2	387.8	363.3	343.1	327.2	292.6	249.4	222.0	204.7	196.0	193.2
15°	418.0	400.7	371.9	348.8	305.6	240.7	184.5	154.2	144.2	145.6	147.0
17.5°	435.3	416.6	384.9	346.0	262.4	178.7	135.5	128.3	132.6	136.9	136.9
20°	452.6	432.5	397.9	324.3	206.1	132.6	121.1	122.5	126.9	131.2	131.2
22.5°	475.7	454.1	410.8	286.9	152.8	115.3	115.3	118.2	121.1	125.4	125.4
25°	500.2	478.6	419.5	240.7	113.9	108.1	109.6	112.4	115.3	119.6	119.6
27.5°	526.1	504.5	418.0	186.0	99.5	99.5	100.9	105.2	108.1	112.4	112.4
30°	555.0	536.2	402.2	135.5	92.3	90.8	90.8	95.1	99.5	102.3	103.8
32.5°	579.5	563.6	374.8	102.3	86.5	83.6	82.2	83.6	87.9	90.8	92.3
35°	599.7	593.9	334.4	87.9	80.7	76.4	73.5	72.1	73.5	73.5	75.0
37.5°	637.1	638.6	286.9	82.2	76.4	70.6	64.9	60.5	57.7	56.2	54.8
40°	707.8	706.3	236.4	77.8	72.1	64.9	56.2	50.5	43.2	40.4	40.4
42.5°	807.2	785.6	180.2	73.5	67.8	59.1	47.6	38.9	31.7	30.3	30.3
45°	986.0	896.6	135.5	70.6	63.4	51.9	38.9	28.8	24.5	23.1	23.1
47.5°	1183.5	1024.9	108.1	66.3	59.1	46.1	30.3	23.1	18.7	18.7	18.7
50°	1401.1	1147.4	90.8	62.0	51.9	38.9	24.5	18.7	17.3	15.9	17.3
52.5°	1639.0	1244.0	79.3	56.2	44.7	31.7	20.2	17.3	14.4	14.4	14.4
55°	1852.3	1308.9	66.3	49.0	37.5	25.9	18.7	14.4	13.0	11.5	10.1
57.5°	2045.5	1343.5	53.3	41.8	28.8	21.6	15.9	11.5	10.1	7.2	7.2
60°	2145.0	1311.8	41.8	33.2	23.1	17.3	13.0	10.1	7.2	4.3	4.3
62.5°	2160.8	1229.6	33.2	25.9	20.2	14.4	10.1	7.2	4.3	2.9	2.9
65°	2022.4	1085.4	27.4	21.6	15.9	11.5	8.6	5.8	2.9	1.4	1.4
67°	1774.5	934.1	24.5	18.7	14.4	10.1	7.2	4.3	2.9	1.4	0.0
67.5°	1725.5	906.7	23.1	18.7	14.4	10.1	7.2	4.3	2.9	1.4	0.0
70°	1133.0	627.1	21.6	17.3	13.0	8.6	5.8	4.3	1.4	0.0	0.0
72.5°	618.4	315.7	20.2	15.9	11.5	8.6	5.8	2.9	1.4	0.0	0.0
75°	226.3	119.6	17.3	14.4	10.1	8.6	5.8	2.9	1.4	0.0	0.0
77.5°	76.4	41.8	15.9	14.4	11.5	8.6	5.8	2.9	1.4	0.0	0.0
80°	25.9	18.7	13.0	11.5	8.6	7.2	5.8	2.9	1.4	0.0	0.0
82.5°	10.1	5.8	4.3	4.3	4.3	5.8	5.8	4.3	1.4	0.0	0.0
85°	4.3	2.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0
87.5°	4.3	2.9	1.4	1.4	1.4	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)