

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: P573123

Luminaire Tested: **ARCH-S-PA2-40-722-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573123
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-PA2-40-722-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 420mA 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: 3383 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

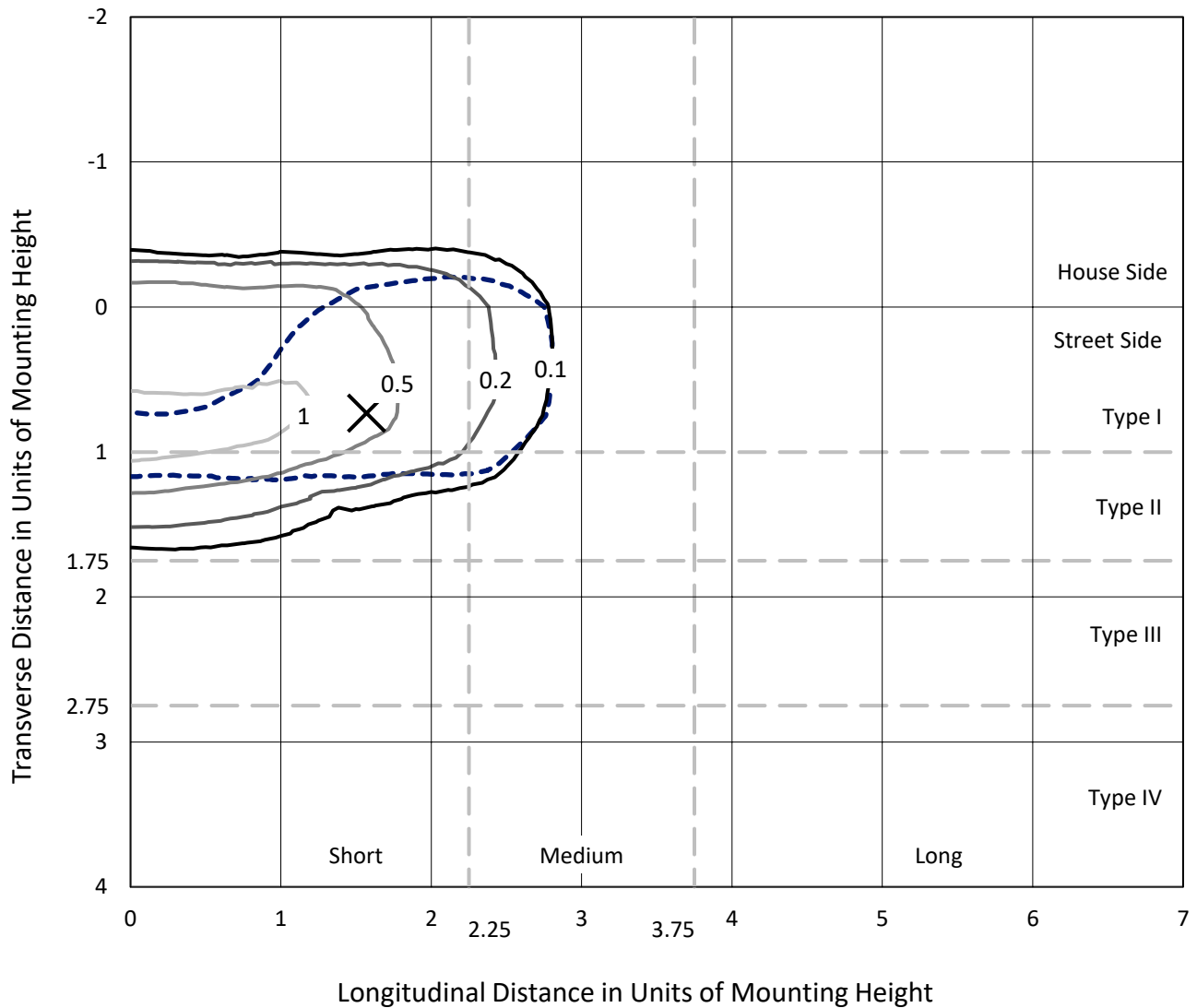
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

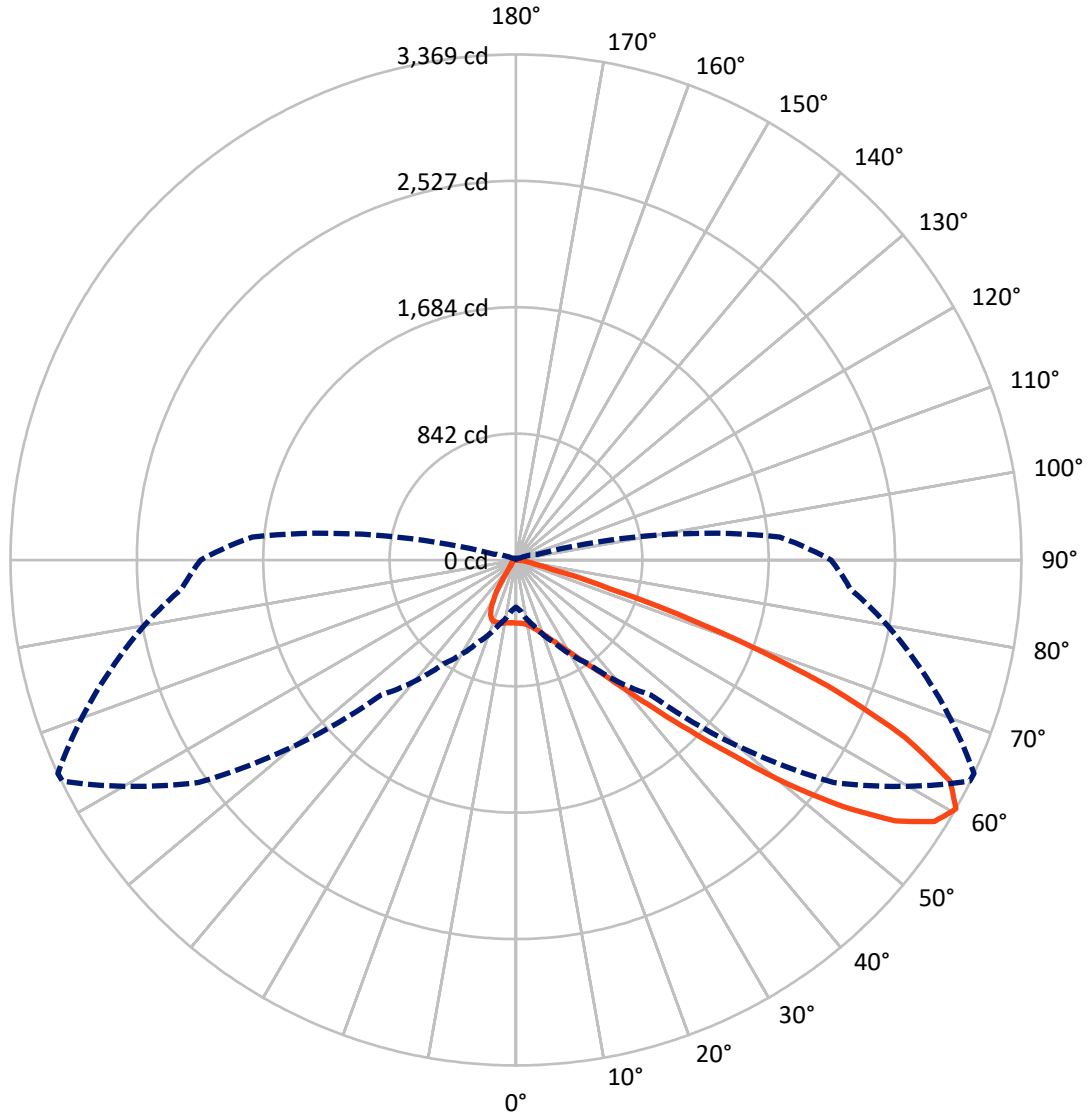
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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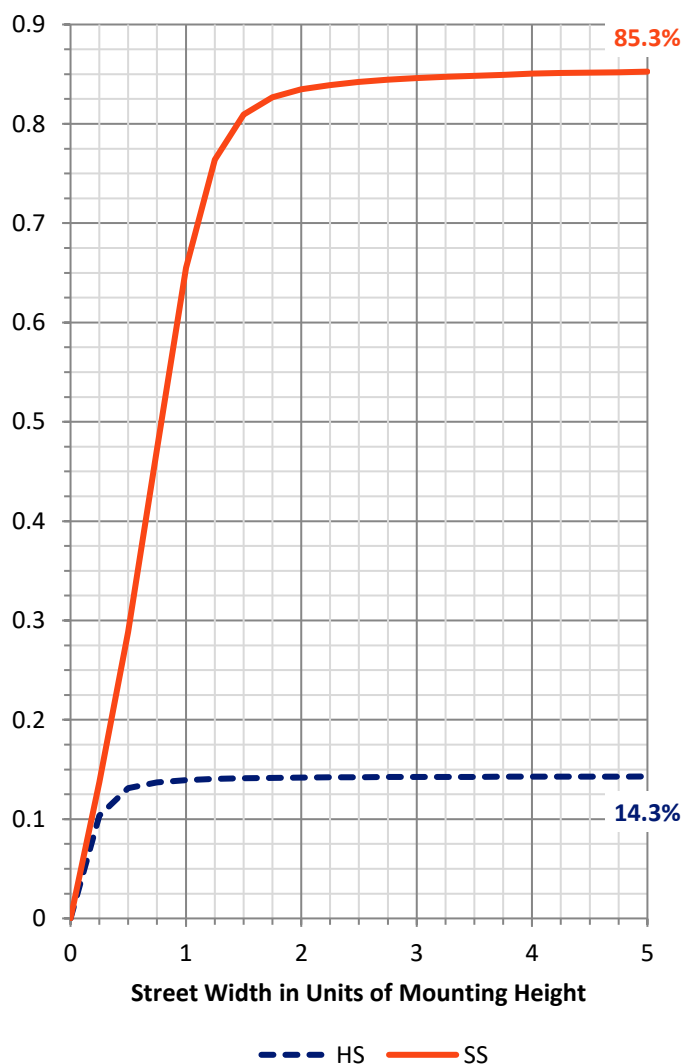
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	489.8	0.0	489.8
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	2893.2	0.0	2893.2
	% Fixture	85.5	0.0	85.5
Total	Lumens	3383.0	0.0	3383.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.8	1.2
10°-20°	113.0	3.3
20°-30°	192.0	5.7
30°-40°	396.1	11.7
40°-50°	796.6	23.5
50°-60°	974.8	28.8
60°-70°	689.6	20.4
70°-80°	166.2	4.9
80°-90°	15.0	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°	3383.0	100.0
0°-180°	3383.0	100.0

Coefficient of Utilization

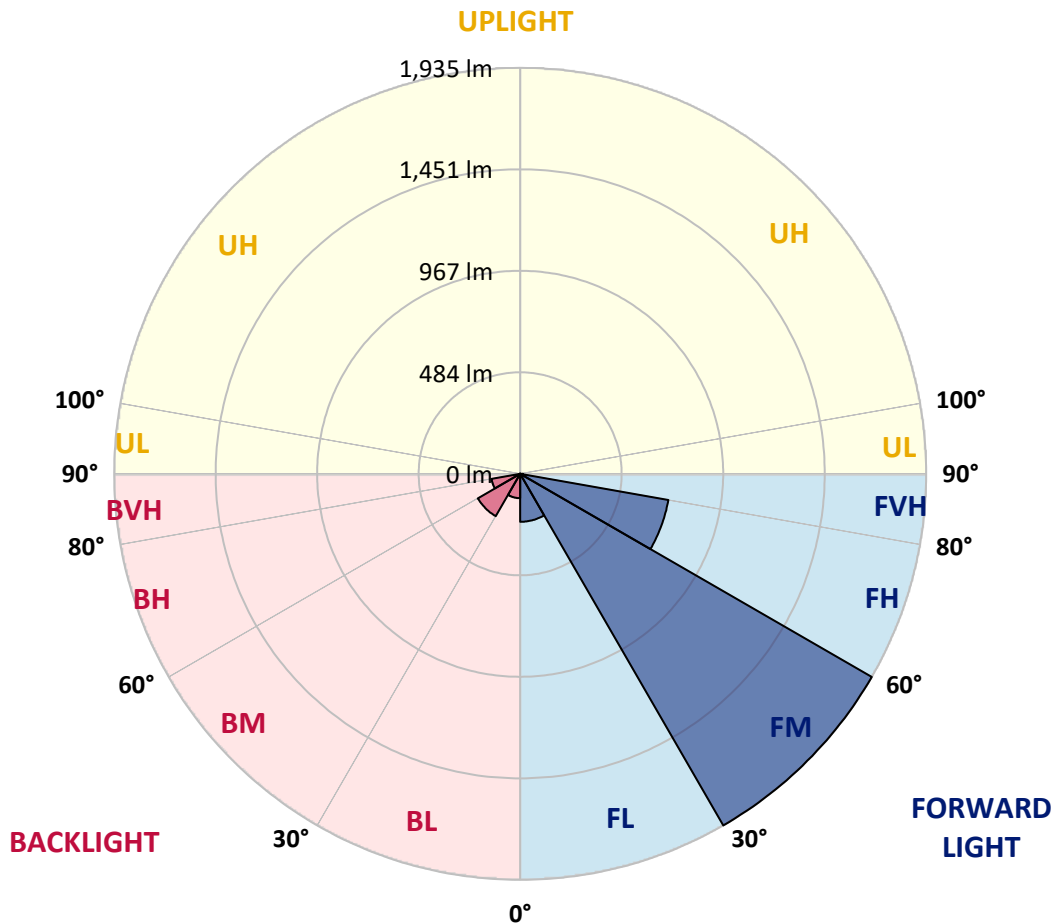


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	228.7	6.8			
FM (30°-60°)	1934.5	57.2			
FH (60°-80°)	716.9	21.2			G1/1800
FVH (80°-90°)	13.1	0.4			G1/100
BL (0°-30°)	116.1	3.4	B1/500		
BM (30°-60°)	232.9	6.9	B1/1000		
BH (60°-80°)	138.8	4.1	B1/500		G1/500
BVH (80°-90°)	1.9	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°	421.4	421.4	421.4	421.4	421.4	421.4	421.4	421.4	421.4	421.4	421.4
2.5°	422.8	421.4	421.4	421.4	422.8	422.8	424.1	421.4	421.4	421.4	421.4
5°	420.1	418.8	418.8	420.1	421.4	421.4	424.1	424.1	424.1	425.4	425.4
7.5°	425.4	422.8	422.8	424.1	425.4	425.4	428.1	429.4	429.4	432.1	433.4
10°	432.1	430.8	430.8	433.4	436.1	436.1	440.1	440.1	440.1	442.8	444.1
12.5°	441.4	440.1	440.1	444.1	448.1	450.8	453.4	454.8	456.1	456.1	456.1
15°	454.8	453.4	453.4	457.4	462.8	469.4	473.5	473.5	476.1	474.8	469.4
17.5°	473.5	472.1	473.5	476.1	482.8	489.5	497.5	498.8	497.5	494.8	486.8
20°	504.1	500.1	502.8	509.5	509.5	513.5	524.1	528.1	529.5	521.5	506.8
22.5°	536.1	536.1	538.8	546.8	541.5	546.8	556.1	562.8	565.5	558.8	534.8
25°	596.1	598.8	594.8	592.1	578.8	581.5	593.5	606.8	606.8	601.5	566.8
27.5°	728.2	725.5	697.5	658.8	624.2	626.8	638.8	656.2	657.5	645.5	598.8
30°	917.6	920.2	865.5	777.5	701.5	681.5	694.8	714.8	717.5	697.5	640.2
32.5°	1213.6	1191.0	1089.6	972.2	829.5	757.5	762.9	784.2	792.2	774.9	705.5
35°	1596.4	1543.0	1391.0	1245.6	1038.9	893.6	852.2	874.9	878.9	869.5	786.9
37.5°	1824.4	1781.8	1683.1	1551.0	1308.3	1074.9	969.6	992.2	988.2	969.6	868.2
40°	1965.8	1941.8	1888.5	1827.1	1672.4	1360.3	1163.0	1144.3	1145.6	1118.9	1000.2
42.5°	2045.8	2024.5	2004.5	2020.5	1975.2	1877.8	1443.0	1357.7	1349.7	1299.0	1153.6
45°	2049.8	2017.8	2041.8	2135.2	2207.2	2336.6	1808.4	1611.1	1615.1	1531.0	1344.3
47.5°	1896.5	1871.1	1940.5	2123.2	2361.9	2636.7	2233.9	1957.8	1939.1	1773.8	1537.7
50°	1593.7	1592.4	1684.4	1943.1	2361.9	2791.4	2690.0	2364.6	2344.6	2027.2	1713.8
52.5°	1261.6	1287.0	1349.7	1595.1	2144.5	2776.7	3026.1	2784.7	2728.7	2252.6	1860.5
55°	981.6	972.2	1048.3	1217.6	1700.4	2523.3	3135.4	3115.4	3068.8	2452.6	1989.8
57.5°	602.8	637.5	740.2	890.9	1237.6	1984.5	2978.1	3316.8	3288.8	2639.3	2124.5
60°	313.4	340.1	450.8	608.1	845.5	1272.3	2584.6	3363.5	3368.8	2790.0	2239.2
62.5°	197.4	196.0	246.7	426.8	544.1	714.8	2007.2	3198.1	3248.8	2906.1	2348.6
65°	148.0	149.4	169.4	282.7	369.4	373.4	1191.0	2766.0	2850.0	2936.7	2385.9
67.5°	137.4	138.7	148.0	185.4	277.4	249.4	524.1	2132.5	2249.9	2654.0	2241.9
70°	122.7	124.0	138.7	153.4	209.4	182.7	236.1	1284.3	1447.0	1925.8	1793.8
72.5°	96.0	98.7	116.0	145.4	156.0	138.7	164.0	568.1	662.8	1058.9	1026.9
75°	70.7	72.0	88.0	112.0	137.4	98.7	126.7	225.4	246.7	397.4	338.8
77.5°	49.3	49.3	61.3	84.0	114.7	69.4	90.7	121.4	124.0	148.0	97.4
80°	30.7	32.0	38.7	57.3	70.7	66.7	56.0	81.4	81.4	77.4	40.0
82.5°	17.3	18.7	26.7	38.7	48.0	45.3	36.0	46.7	48.0	49.3	22.7
85°	8.0	9.3	16.0	24.0	28.0	21.3	21.3	24.0	24.0	32.0	13.3
87.5°	1.3	1.3	8.0	10.7	9.3	10.7	10.7	13.3	13.3	16.0	6.7
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°	421.4	421.4	421.4	421.4	421.4	421.4	421.4	421.4	421.4	421.4	421.4
2.5°	420.1	420.1	420.1	418.8	418.8	417.4	414.8	414.8	414.8	414.8	416.1
5°	425.4	424.1	422.8	418.8	416.1	410.8	405.4	404.1	400.1	400.1	401.4
7.5°	432.1	432.1	428.1	421.4	414.8	405.4	396.1	389.4	382.8	381.4	380.1
10°	444.1	441.4	437.4	425.4	414.8	400.1	385.4	368.1	354.8	348.1	345.4
12.5°	453.4	452.1	444.1	430.8	413.4	390.8	357.4	317.4	285.4	268.1	268.1
15°	466.8	464.1	452.1	433.4	409.4	356.1	288.1	226.7	192.0	173.4	170.7
17.5°	480.1	474.8	460.1	434.8	392.1	293.4	201.4	145.4	121.4	112.0	109.4
20°	496.1	486.8	465.4	436.1	349.4	213.4	130.7	97.4	88.0	84.0	85.4
22.5°	517.5	501.5	470.8	428.1	285.4	138.7	92.0	78.7	73.4	69.4	69.4
25°	544.1	521.5	480.1	405.4	206.7	93.4	73.4	65.3	60.0	57.3	56.0
27.5°	568.1	540.1	489.5	365.4	132.0	73.4	61.3	54.7	49.3	48.0	46.7
30°	600.1	561.5	498.8	301.4	86.7	60.0	52.0	45.3	41.3	40.0	40.0
32.5°	654.8	602.8	516.1	229.4	65.3	52.0	44.0	38.7	36.0	34.7	34.7
35°	718.8	653.5	530.8	160.0	56.0	44.0	37.3	33.3	32.0	30.7	30.7
37.5°	785.5	713.5	533.5	101.4	49.3	38.7	33.3	30.7	28.0	28.0	28.0
40°	905.6	818.9	521.5	68.0	42.7	34.7	29.3	28.0	25.3	25.3	25.3
42.5°	1045.6	946.9	490.8	54.7	38.7	30.7	28.0	25.3	22.7	22.7	21.3
45°	1227.0	1092.3	438.8	48.0	34.7	28.0	25.3	22.7	21.3	20.0	20.0
47.5°	1397.7	1257.6	389.4	42.7	32.0	26.7	22.7	20.0	18.7	18.7	18.7
50°	1560.4	1384.3	332.1	40.0	29.3	25.3	21.3	18.7	17.3	16.0	16.0
52.5°	1677.7	1484.4	278.7	36.0	26.7	22.7	20.0	17.3	14.7	13.3	13.3
55°	1808.4	1585.7	230.7	32.0	25.3	21.3	17.3	14.7	12.0	10.7	10.7
57.5°	1955.1	1684.4	186.7	29.3	24.0	18.7	14.7	12.0	9.3	8.0	8.0
60°	2100.5	1763.1	149.4	26.7	21.3	17.3	13.3	9.3	6.7	5.3	5.3
62.5°	2245.9	1816.4	114.7	24.0	20.0	14.7	10.7	6.7	4.0	2.7	2.7
65°	2305.9	1801.8	85.4	21.3	17.3	12.0	9.3	6.7	4.0	2.7	2.7
67.5°	2139.2	1620.4	60.0	21.3	16.0	12.0	8.0	5.3	2.7	1.3	1.3
70°	1669.7	1251.0	44.0	21.3	16.0	12.0	8.0	5.3	2.7	1.3	1.3
72.5°	946.9	696.2	33.3	18.7	14.7	10.7	8.0	5.3	2.7	1.3	1.3
75°	337.4	224.1	25.3	17.3	13.3	9.3	8.0	5.3	2.7	1.3	1.3
77.5°	81.4	57.3	20.0	14.7	12.0	9.3	6.7	5.3	4.0	1.3	1.3
80°	33.3	24.0	16.0	12.0	9.3	8.0	6.7	5.3	2.7	1.3	1.3
82.5°	14.7	12.0	6.7	6.7	5.3	5.3	5.3	5.3	2.7	1.3	1.3
85°	6.7	5.3	2.7	2.7	1.3	1.3	1.3	2.7	2.7	1.3	1.3
87.5°	4.0	2.7	2.7	2.7	1.3	1.3	1.3	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)