

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: P573191

Luminaire Tested: **ARCH-S-PA2-40-827-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-19)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-40-827-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 420mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4908 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

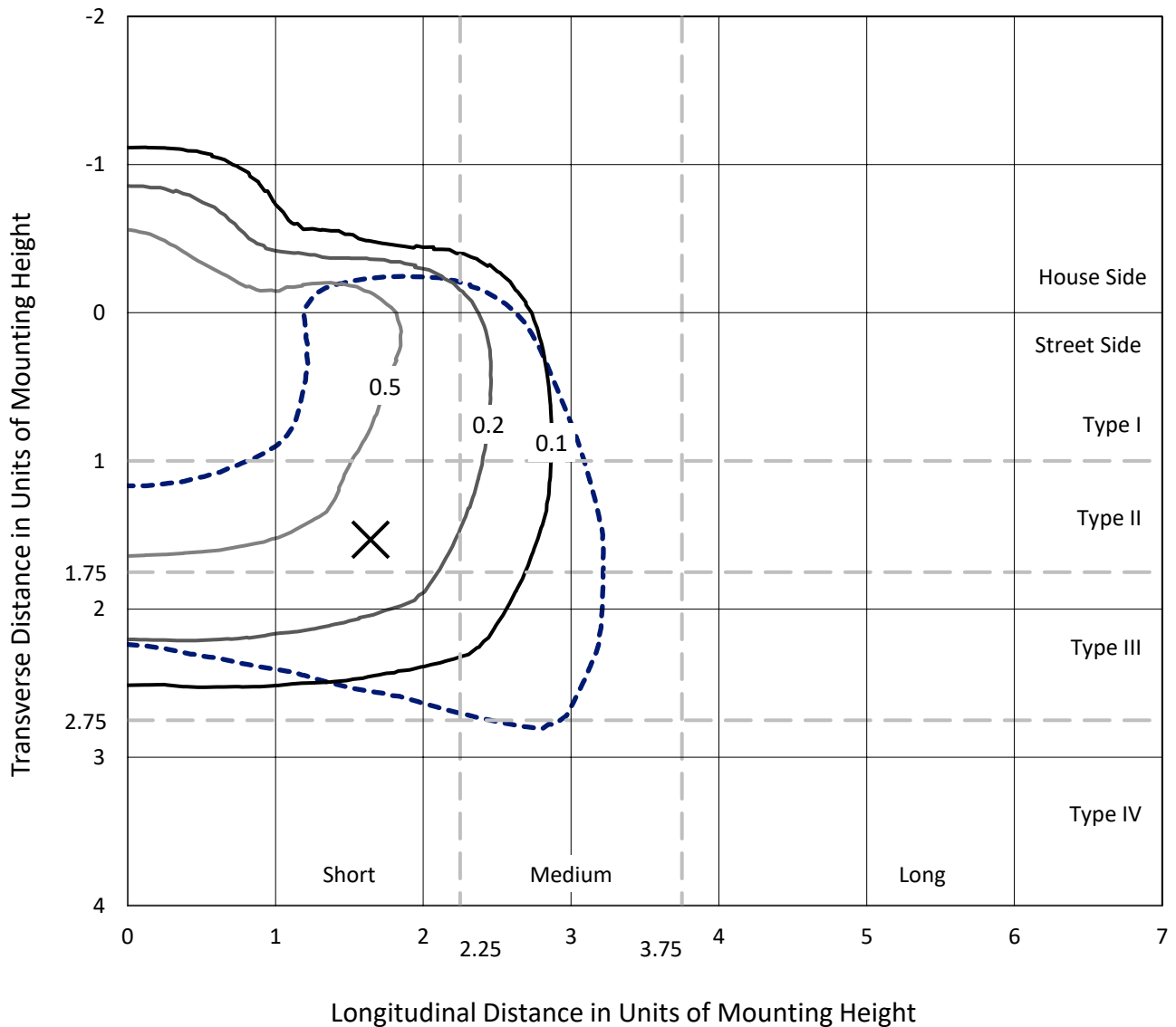
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

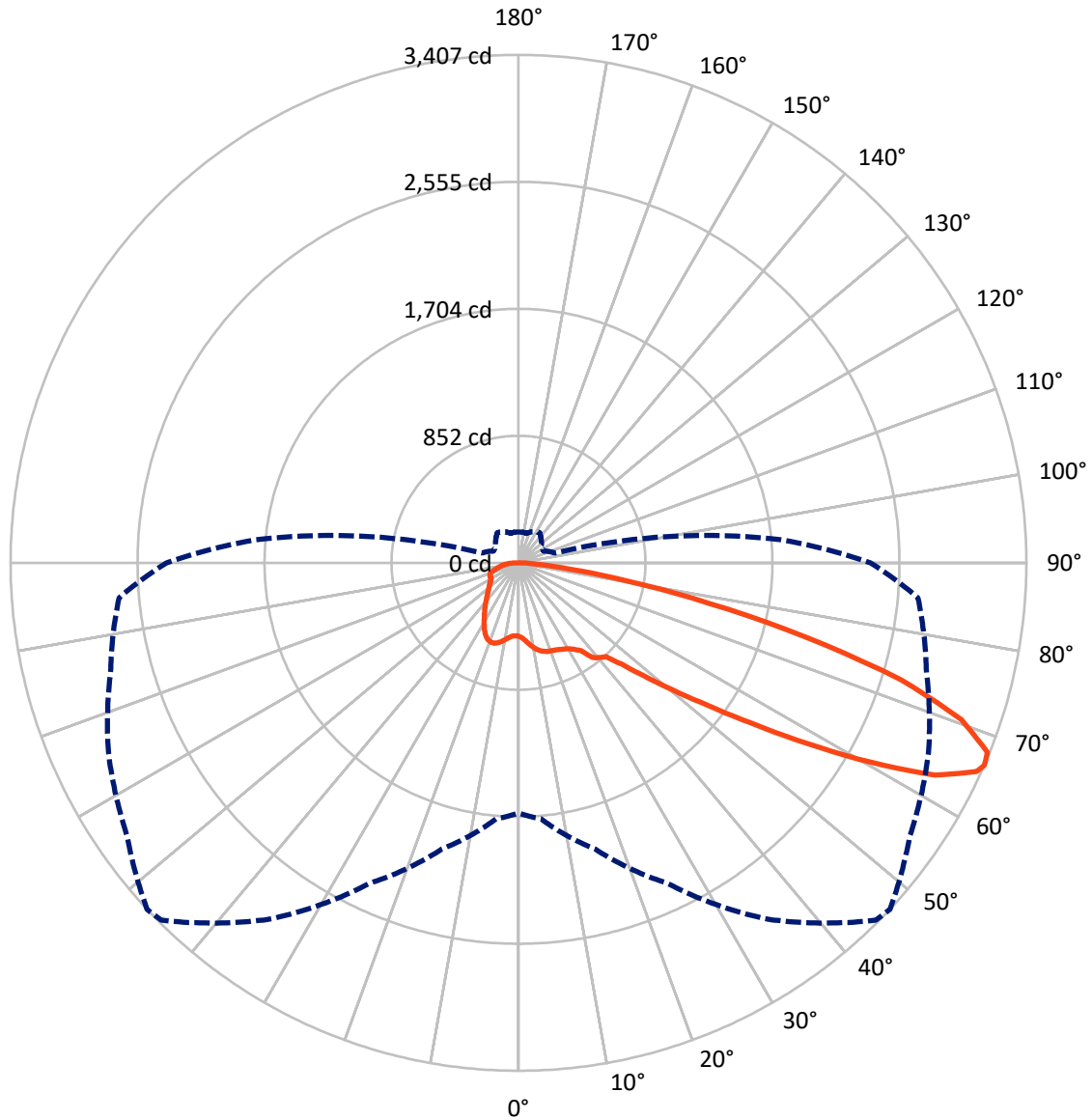
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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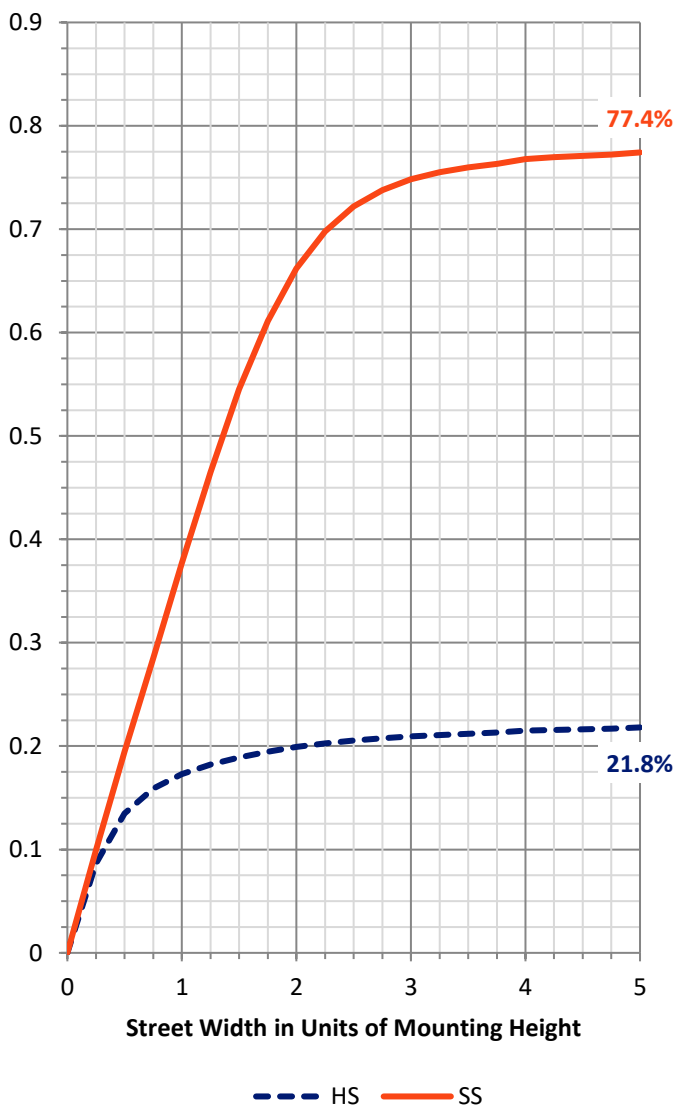
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1091.2	0.0	1091.2
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	3816.8	0.0	3816.8
	% Fixture	77.8	0.0	77.8
Total	Lumens	4908.0	0.0	4908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	1.0
10°-20°	164.7	3.4
20°-30°	274.7	5.6
30°-40°	399.0	8.1
40°-50°	610.2	12.4
50°-60°	1153.4	23.5
60°-70°	1490.3	30.4
70°-80°	669.9	13.6
80°-90°	95.5	1.9
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°	4908.0	100.0
0°-180°	4908.0	100.0

Coefficient of Utilization



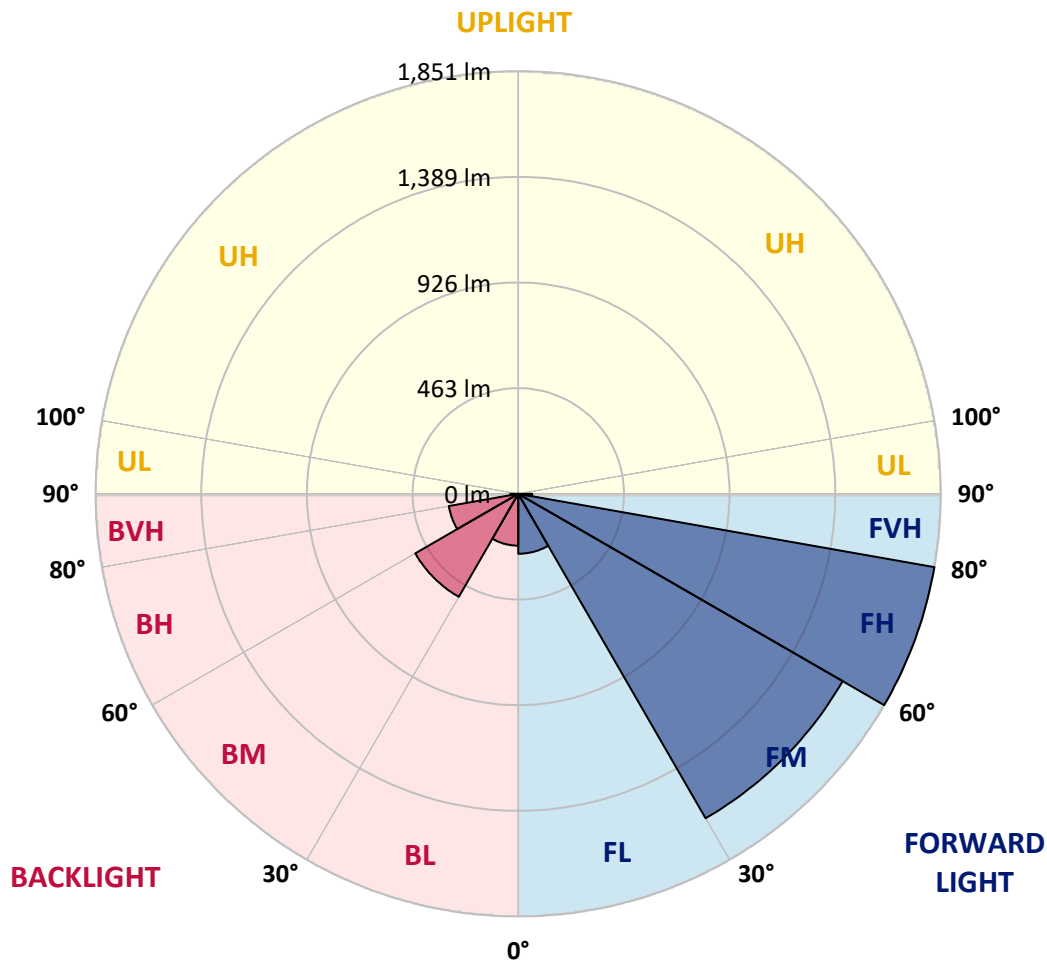
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	262.6	5.4			
FM (30°-60°)	1641.3	33.4			
FH (60°-80°)	1851.5	37.7			G2/5000
FVH (80°-90°)	61.4	1.3			G1/100
BL (0°-30°)	227.1	4.6	B1/500		
BM (30°-60°)	521.2	10.6	B1/1000		
BH (60°-80°)	308.8	6.3	B1/500		G1/500
BVH (80°-90°)	34.1	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	493.4	493.4	493.4	493.4	493.4	493.4	493.4	493.4	493.4	493.4	493.4
2.5°	521.4	517.4	514.7	513.4	510.7	505.4	505.4	504.1	498.7	496.1	494.7
5°	562.7	560.1	553.4	548.1	540.1	529.4	528.1	520.1	509.4	501.4	496.1
7.5°	602.8	600.1	593.4	585.4	572.1	558.7	554.7	544.1	526.7	514.7	505.4
10°	637.4	633.4	625.4	614.8	600.1	585.4	581.4	569.4	552.1	534.7	518.7
12.5°	660.1	657.4	648.1	634.8	618.8	604.1	601.4	590.8	573.4	554.7	534.7
15°	670.8	669.4	658.8	645.4	629.4	617.4	616.1	606.8	592.1	573.4	550.7
17.5°	668.1	666.8	657.4	644.1	632.1	625.4	625.4	618.8	606.8	590.8	566.7
20°	654.8	654.8	646.8	637.4	630.8	629.4	629.4	628.1	620.1	606.8	582.7
22.5°	641.4	641.4	636.1	629.4	628.1	633.4	634.8	637.4	634.8	624.1	602.8
25°	644.1	642.8	636.1	628.1	629.4	641.4	644.1	650.8	649.4	641.4	622.8
27.5°	673.4	672.1	654.8	638.8	637.4	652.1	654.8	664.1	664.1	657.4	645.4
30°	746.8	749.4	717.4	677.4	657.4	666.8	669.4	680.1	685.4	688.1	678.8
32.5°	858.8	854.8	806.8	741.4	697.4	688.1	692.1	701.4	720.1	725.4	702.8
35°	972.1	974.8	928.1	845.5	761.4	726.8	724.1	737.4	765.4	741.4	701.4
37.5°	1077.5	1073.5	1018.8	929.5	845.5	805.4	806.8	801.4	777.4	729.4	710.8
40°	1192.2	1181.5	1136.2	1021.5	914.8	848.1	836.1	790.8	770.8	750.8	748.1
42.5°	1305.5	1306.9	1269.5	1156.2	997.5	878.8	860.1	813.4	826.8	822.8	820.1
45°	1448.2	1448.2	1410.9	1305.5	1128.2	993.5	968.1	912.1	933.5	949.5	981.5
47.5°	1578.9	1570.9	1560.2	1470.9	1298.9	1142.8	1132.2	1068.2	1124.2	1173.5	1238.8
50°	1717.6	1706.9	1700.2	1645.6	1522.9	1369.5	1337.5	1270.8	1393.5	1485.5	1606.9
52.5°	1933.6	1914.9	1880.3	1849.6	1801.6	1624.2	1584.2	1534.9	1693.6	1809.6	2057.6
55°	2128.3	2112.3	2079.0	2101.6	2095.0	1933.6	1898.9	1852.3	2024.3	2165.6	2449.7
57.5°	2200.3	2201.6	2247.0	2368.3	2432.3	2339.0	2289.7	2243.0	2388.3	2453.7	2709.7
60°	2233.6	2229.6	2347.0	2544.4	2752.4	2780.4	2717.7	2621.7	2676.4	2680.4	2929.7
62.5°	2161.6	2172.3	2333.7	2617.7	2944.4	3145.8	3136.4	2968.4	2917.7	2861.7	2988.4
65°	1888.3	1902.9	2140.3	2487.0	2975.1	3367.1	3376.5	3180.5	3039.1	2883.1	2821.7
66°	1680.2	1724.2	1988.3	2373.7	2919.1	3389.8	3407.1	3203.1	3033.8	2832.4	2689.7
67.5°	1409.5	1406.9	1701.6	2124.3	2763.1	3369.8	3392.5	3171.1	2961.8	2683.0	2425.7
70°	862.8	889.5	1142.8	1585.6	2287.0	3120.4	3151.1	2945.8	2651.0	2272.3	1793.6
72.5°	442.7	486.7	653.4	1030.8	1660.2	2579.0	2683.0	2473.7	2167.0	1644.2	1094.8
75°	234.7	232.0	308.0	558.7	1060.2	1934.9	1989.6	1854.9	1497.5	980.1	557.4
77.5°	125.4	132.0	161.4	286.7	582.7	1236.2	1305.5	1196.2	853.5	501.4	266.7
80°	85.3	89.3	109.3	161.4	316.0	670.8	734.8	637.4	446.7	237.4	125.4
82.5°	54.7	57.3	74.7	100.0	189.4	325.4	342.7	326.7	218.7	134.7	76.0
85°	33.3	34.7	45.3	64.0	118.7	132.0	137.4	138.7	122.7	88.0	41.3
87.5°	16.0	17.3	25.3	32.0	56.0	48.0	44.0	45.3	68.0	52.0	18.7
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°	493.4	493.4	493.4	493.4	493.4	493.4	493.4	493.4	493.4	493.4	493.4
2.5°	493.4	492.1	489.4	488.1	489.4	489.4	489.4	490.7	493.4	493.4	494.7
5°	493.4	490.7	488.1	488.1	490.7	493.4	496.1	501.4	504.1	505.4	505.4
7.5°	500.1	497.4	494.7	494.7	498.7	504.1	509.4	516.1	522.7	528.1	528.1
10°	513.4	509.4	506.7	508.1	514.7	521.4	528.1	536.1	542.7	549.4	549.4
12.5°	528.1	524.1	520.1	522.7	532.1	540.1	546.7	550.7	557.4	562.7	562.7
15°	542.7	536.1	534.7	540.1	549.4	554.7	557.4	557.4	560.1	565.4	565.4
17.5°	558.7	552.1	550.7	556.1	564.1	564.1	558.7	554.7	553.4	557.4	558.7
20°	574.7	568.1	568.1	572.1	570.7	561.4	552.1	545.4	540.1	544.1	545.4
22.5°	594.8	588.1	585.4	580.1	568.1	549.4	534.7	526.7	522.7	525.4	528.1
25°	614.8	609.4	602.8	584.1	556.1	526.7	508.1	501.4	502.7	508.1	510.7
27.5°	640.1	637.4	621.4	581.4	534.7	494.7	476.1	474.7	480.1	488.1	492.1
30°	670.8	666.8	638.8	573.4	505.4	457.4	444.1	446.7	454.7	461.4	465.4
32.5°	692.1	689.4	646.8	554.7	469.4	424.1	413.4	413.4	417.4	426.7	430.7
35°	698.8	709.4	652.1	526.7	426.7	394.7	384.1	377.4	377.4	385.4	388.1
37.5°	721.4	745.4	654.8	489.4	392.1	368.1	354.7	342.7	338.7	337.4	337.4
40°	773.4	801.4	653.4	441.4	358.7	341.4	325.4	312.0	301.4	286.7	288.0
42.5°	864.1	885.5	649.4	390.7	329.4	317.4	301.4	285.4	268.0	252.0	250.7
45°	1038.8	1006.8	638.8	346.7	302.7	296.0	281.4	262.7	241.4	226.7	226.7
47.5°	1314.9	1226.8	632.1	305.4	278.7	277.4	264.0	244.0	222.7	212.0	210.7
50°	1693.6	1530.9	642.8	276.0	257.4	261.4	250.7	232.0	214.7	205.4	204.0
52.5°	2128.3	1857.6	654.8	257.4	241.4	249.4	244.0	226.7	209.4	201.4	200.0
55°	2464.3	2123.0	637.4	240.0	225.4	237.4	237.4	221.4	206.7	198.7	198.7
57.5°	2700.4	2229.6	577.4	224.0	212.0	226.7	230.7	218.7	205.4	202.7	202.7
60°	2801.7	2224.3	472.1	209.4	202.7	216.0	226.7	216.0	208.0	214.7	216.0
62.5°	2747.1	2108.3	366.7	198.7	196.0	213.4	230.7	226.7	217.4	222.7	225.4
65°	2500.4	1904.3	276.0	189.4	188.0	214.7	241.4	233.4	210.7	212.0	213.4
66°	2361.7	1766.9	253.4	186.7	185.4	216.0	246.7	230.7	205.4	208.0	206.7
67.5°	2065.6	1550.9	222.7	181.4	180.0	216.0	253.4	225.4	198.7	202.7	198.7
70°	1514.9	1097.5	190.7	174.7	172.0	212.0	252.0	214.7	184.0	181.4	174.7
72.5°	878.8	664.1	169.4	166.7	160.0	186.7	236.0	197.4	168.0	160.0	153.4
75°	432.1	337.4	150.7	157.4	140.0	164.0	213.4	182.7	154.7	144.0	140.0
77.5°	198.7	170.7	136.0	144.0	124.0	141.4	194.7	166.7	137.4	121.4	117.3
80°	108.0	106.7	114.7	120.0	104.0	124.0	172.0	145.4	116.0	98.7	93.3
82.5°	66.7	68.0	84.0	92.0	81.3	108.0	152.0	121.4	88.0	69.3	70.7
85°	34.7	38.7	56.0	61.3	53.3	80.0	114.7	81.3	49.3	36.0	36.0
87.5°	12.0	16.0	28.0	33.3	29.3	48.0	72.0	38.7	10.7	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)