

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: P573428

Luminaire Tested: **ARCH-S-PA2-70-827-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-70-827-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7898 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

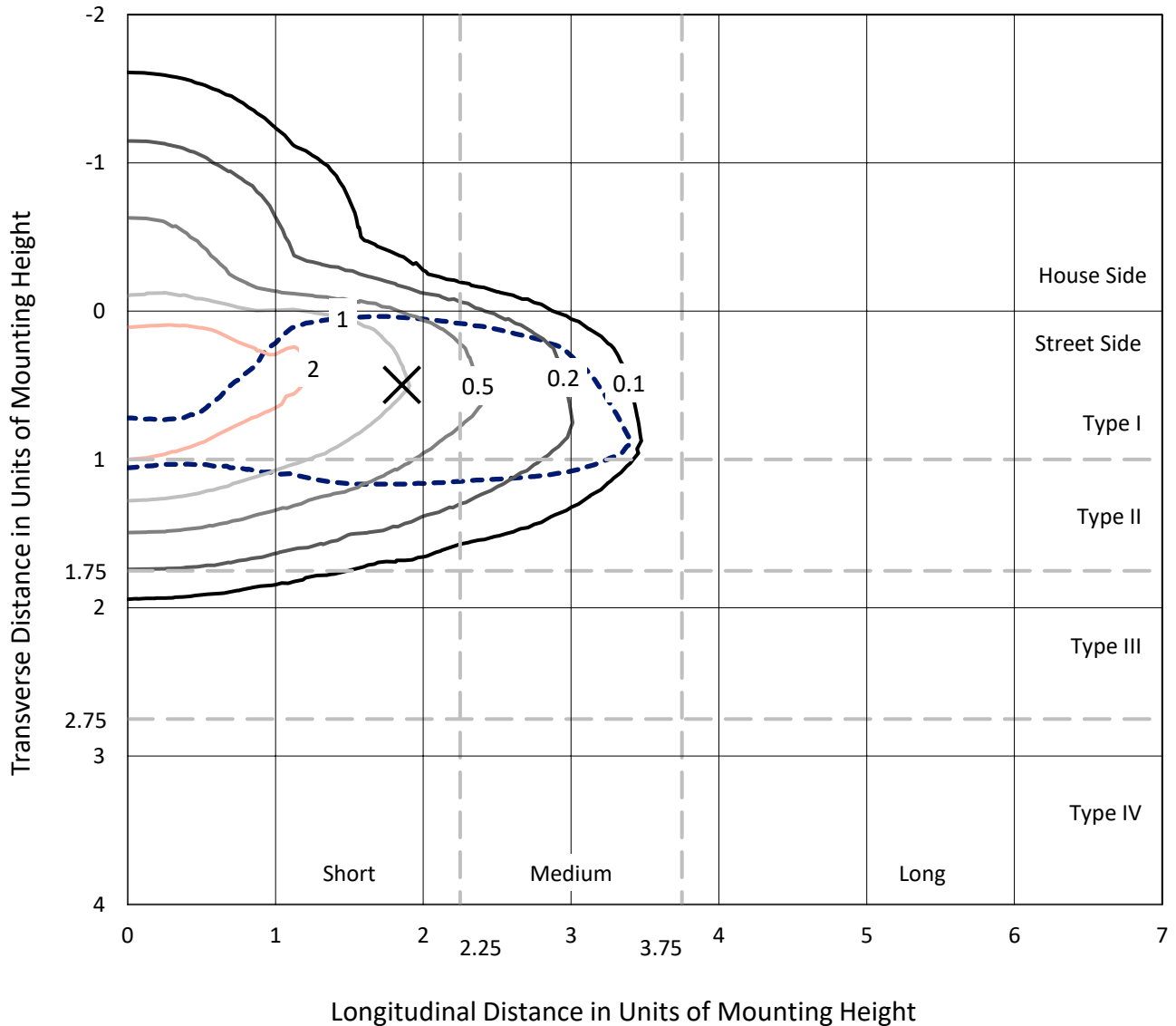
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

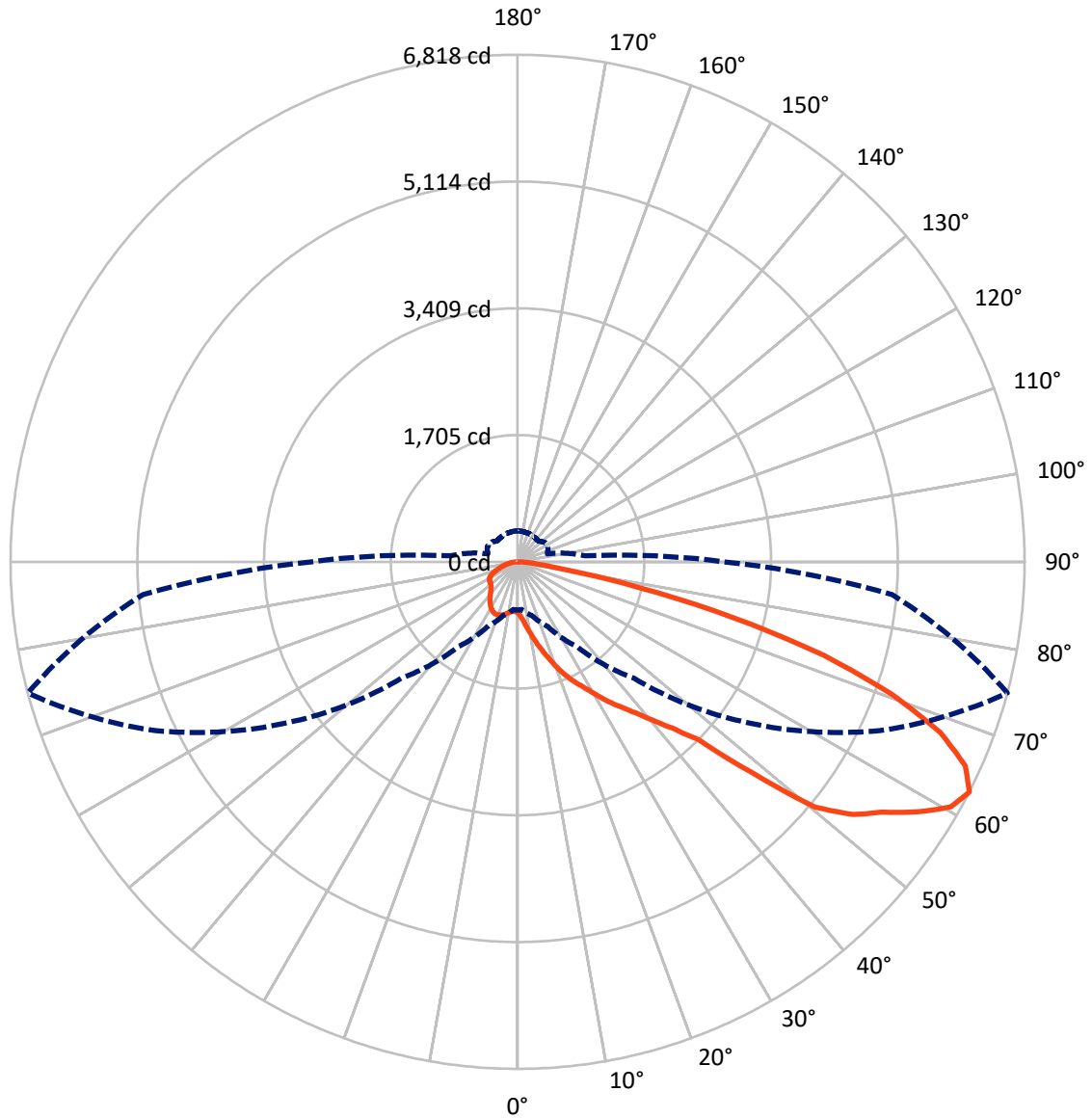
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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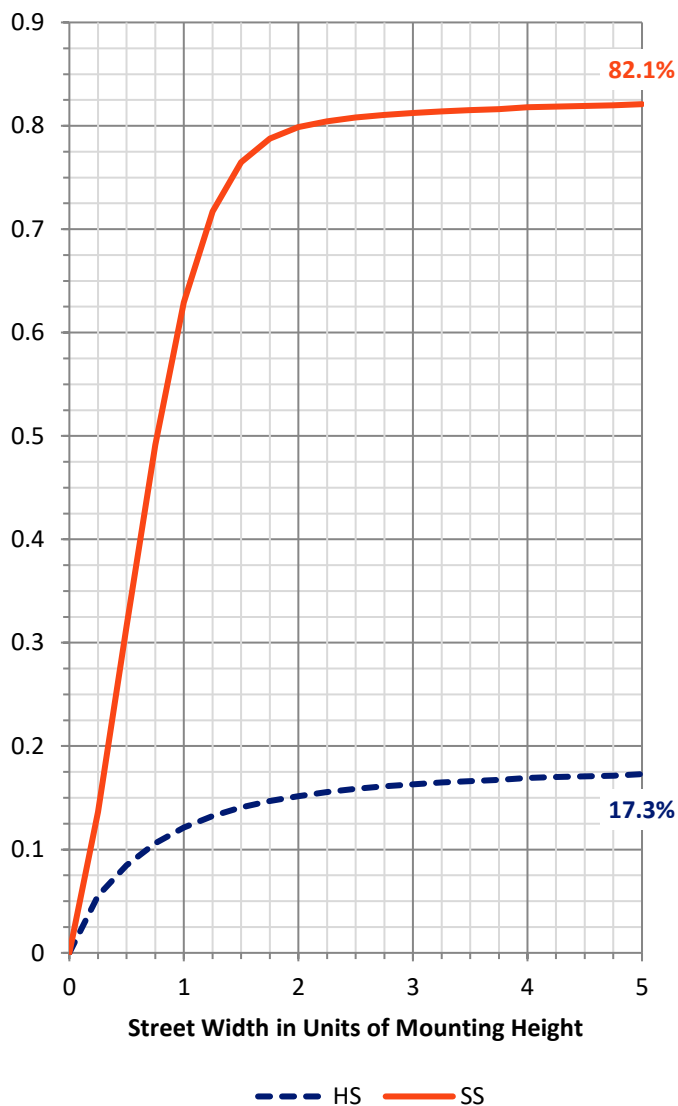
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1393.0	0.0	1393.0
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	6505.0	0.0	6505.0
	% Fixture	82.4	0.0	82.4
Total	Lumens	7898.0	0.0	7898.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	1.0
10°-20°	326.8	4.1
20°-30°	646.6	8.2
30°-40°	1077.7	13.6
40°-50°	1590.3	20.1
50°-60°	1911.7	24.2
60°-70°	1485.8	18.8
70°-80°	657.3	8.3
80°-90°	119.0	1.5
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°	7898.0	100.0
0°-180°	7898.0	100.0

Coefficient of Utilization

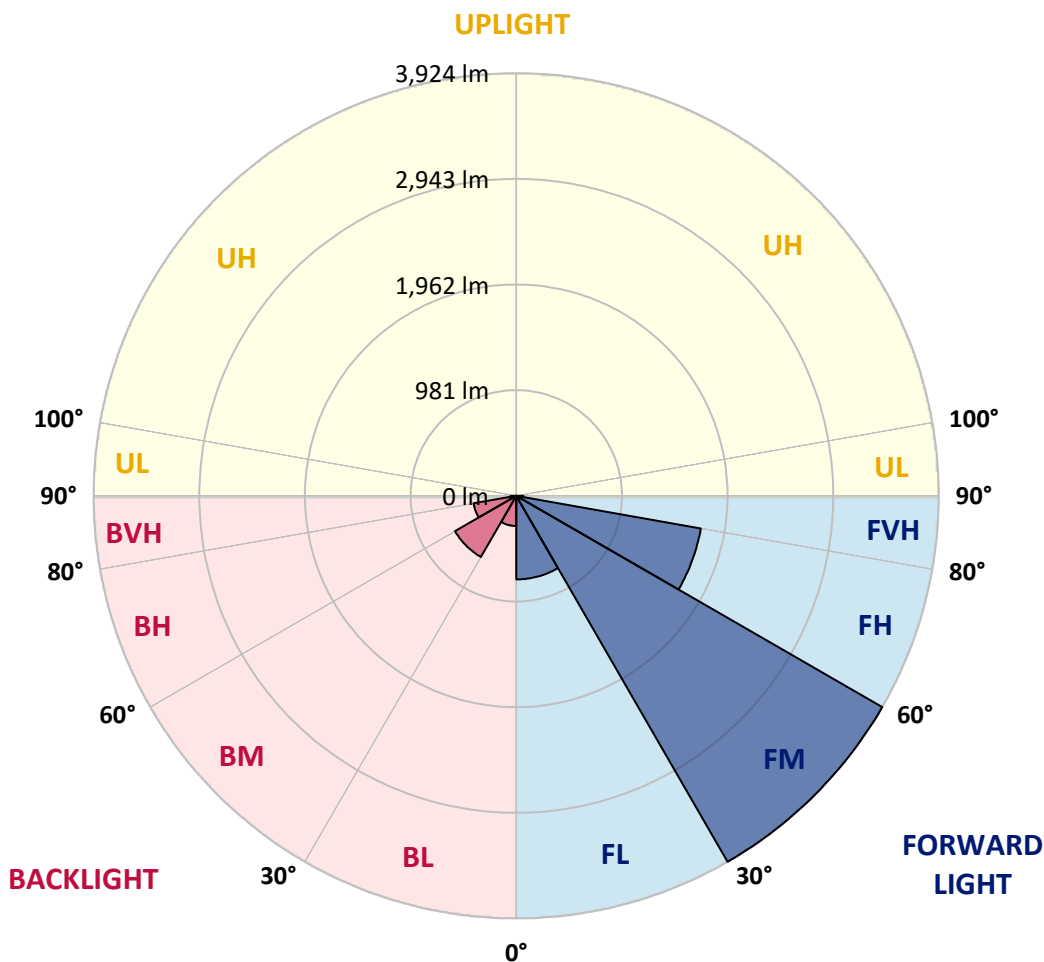


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	775.8	9.8			
FM (30°-60°)	3923.7	49.7			
FH (60°-80°)	1740.1	22.0			G1/1800
FVH (80°-90°)	65.4	0.8			G1/100
BL (0°-30°)	280.3	3.5	B1/500		
BM (30°-60°)	656.1	8.3	B1/1000		
BH (60°-80°)	403.0	5.1	B1/500		G1/500
BVH (80°-90°)	53.6	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4
2.5°	880.3	854.7	854.7	827.0	829.1	805.7	780.1	754.5	726.8	705.5	694.8
5°	1151.0	1131.8	1125.4	1093.4	1042.3	984.7	922.9	859.0	792.9	741.7	716.2
7.5°	1404.6	1389.7	1381.1	1344.9	1274.6	1212.8	1114.7	997.5	884.5	788.6	750.3
10°	1592.2	1581.5	1564.4	1547.4	1496.2	1443.0	1321.5	1155.2	989.0	846.2	788.6
12.5°	1728.6	1713.6	1713.6	1711.5	1677.4	1628.4	1515.4	1336.4	1110.5	910.1	831.2
15°	1820.2	1818.1	1824.5	1837.3	1828.7	1796.8	1683.8	1502.6	1234.1	982.6	880.3
17.5°	1888.4	1879.9	1892.7	1926.8	1952.4	1939.6	1845.8	1662.5	1370.5	1061.4	933.6
20°	1963.0	1946.0	1963.0	2005.6	2037.6	2056.8	2012.0	1816.0	1517.6	1146.7	984.7
22.5°	2105.8	2103.7	2095.2	2108.0	2129.3	2163.4	2137.8	1971.5	1660.4	1232.0	1044.4
25°	2361.6	2338.1	2314.7	2287.0	2263.5	2274.2	2252.9	2116.5	1790.4	1325.7	1095.5
27.5°	2647.2	2621.6	2579.0	2510.8	2446.8	2408.5	2363.7	2242.2	1916.1	1411.0	1144.6
30°	2909.4	2900.8	2836.9	2762.3	2651.5	2581.1	2495.9	2387.2	2067.5	1504.8	1195.7
32.5°	3154.5	3137.4	3073.5	2994.6	2864.6	2785.7	2668.5	2544.9	2240.1	1619.9	1249.0
35°	3365.5	3348.4	3273.8	3173.7	3060.7	2992.5	2858.2	2685.6	2397.8	1720.0	1293.8
37.5°	3525.3	3506.2	3435.8	3337.8	3237.6	3205.6	3090.5	2864.6	2576.9	1845.8	1349.2
40°	3614.9	3591.4	3544.5	3476.3	3393.2	3378.3	3329.3	3086.3	2802.8	1999.3	1430.2
42.5°	3625.5	3604.2	3578.6	3572.2	3565.8	3578.6	3602.1	3337.8	3060.7	2203.9	1549.5
45°	3531.7	3518.9	3521.1	3593.5	3693.7	3810.9	3951.6	3708.6	3408.1	2593.9	1818.1
47.5°	3331.4	3325.0	3371.9	3493.4	3717.2	3983.6	4382.2	4343.8	4230.8	3222.7	2163.4
50°	3007.4	2996.8	3096.9	3288.8	3608.5	4041.1	4672.0	5091.9	5185.7	3710.8	2389.3
52.5°	2542.8	2555.6	2711.1	2973.3	3359.1	3979.3	4791.4	5398.8	5646.1	4071.0	2561.9
55°	2067.5	2048.3	2189.0	2512.9	2990.4	3753.4	4814.8	5575.7	5944.5	4403.5	2730.3
57.5°	1506.9	1553.8	1703.0	1997.1	2515.1	3344.2	4678.4	5697.2	6345.2	4736.0	2885.9
60°	1020.9	1020.9	1153.1	1447.2	1943.8	2847.6	4314.0	5652.5	6694.7	4996.0	2920.0
62.5°	650.1	643.7	750.3	959.1	1391.8	2212.4	3768.3	5371.1	6818.4	5057.8	2777.2
65°	411.4	419.9	458.3	586.1	890.9	1570.8	3024.5	4810.6	6615.9	4915.0	2527.8
67.5°	330.4	332.5	351.7	405.0	547.8	1008.2	2242.2	4036.9	6132.0	4554.8	2235.8
70°	292.0	296.3	300.5	319.7	375.1	637.3	1472.8	3250.4	5339.2	3928.2	1922.5
72.5°	266.4	270.7	275.0	279.2	309.1	415.6	869.6	2463.9	4307.6	3018.1	1466.4
75°	245.1	249.4	249.4	251.5	268.6	309.1	477.4	1698.7	2998.9	1877.8	914.4
77.5°	219.5	221.7	221.7	225.9	243.0	243.0	296.3	1050.8	1664.6	850.4	462.5
80°	185.4	189.7	189.7	196.1	213.1	187.6	198.2	537.1	690.6	349.5	206.7
82.5°	136.4	144.9	149.2	159.9	170.5	142.8	142.8	270.7	292.0	155.6	110.8
85°	74.6	76.7	110.8	119.4	125.8	85.3	95.9	134.3	144.9	68.2	55.4
87.5°	21.3	23.4	53.3	66.1	59.7	36.2	40.5	51.2	51.2	19.2	14.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4
2.5°	686.3	669.3	654.3	643.7	633.0	626.6	624.5	620.2	620.2	622.4
5°	694.8	665.0	641.6	628.8	620.2	616.0	613.8	613.8	616.0	616.0
7.5°	716.2	671.4	650.1	639.4	630.9	626.6	626.6	624.5	626.6	626.6
10°	746.0	690.6	667.1	654.3	647.9	641.6	639.4	637.3	637.3	637.3
12.5°	778.0	711.9	686.3	671.4	660.7	652.2	647.9	643.7	641.6	641.6
15°	807.8	733.2	699.1	682.0	667.1	654.3	645.8	639.4	637.3	637.3
17.5°	839.8	748.1	707.6	684.2	665.0	647.9	637.3	628.8	624.5	624.5
20°	873.9	758.8	707.6	677.8	652.2	635.2	622.4	613.8	605.3	605.3
22.5°	901.6	763.0	699.1	662.9	637.3	616.0	603.2	592.5	586.1	586.1
25°	925.0	758.8	679.9	639.4	609.6	590.4	577.6	569.1	562.7	562.7
27.5°	939.9	741.7	656.5	613.8	586.1	567.0	558.4	549.9	545.6	545.6
30°	948.5	720.4	626.6	586.1	558.4	547.8	543.5	535.0	528.6	526.5
32.5°	952.7	688.4	596.8	558.4	539.2	535.0	535.0	524.3	515.8	513.7
35°	948.5	654.3	567.0	535.0	528.6	530.7	526.5	513.7	503.0	498.7
37.5°	942.1	613.8	535.0	517.9	524.3	528.6	515.8	498.7	481.7	477.4
40°	937.8	577.6	509.4	500.9	520.1	522.2	498.7	466.8	454.0	449.7
42.5°	959.1	541.4	486.0	488.1	509.4	511.5	468.9	454.0	445.5	443.3
45°	1031.6	509.4	466.8	479.6	496.6	488.1	454.0	451.9	445.5	443.3
47.5°	1087.0	486.0	458.3	473.2	486.0	456.1	451.9	449.7	443.3	441.2
50°	1106.2	471.0	456.1	468.9	471.0	441.2	447.6	447.6	441.2	439.1
52.5°	1108.3	462.5	460.4	466.8	447.6	434.8	443.3	443.3	436.9	434.8
55°	1116.9	458.3	462.5	466.8	422.0	426.3	434.8	436.9	430.5	428.4
57.5°	1099.8	451.9	466.8	468.9	411.4	417.8	426.3	426.3	426.3	426.3
60°	1033.7	439.1	464.6	464.6	402.8	407.1	415.6	419.9	422.0	422.0
62.5°	912.2	413.5	451.9	451.9	394.3	398.6	409.2	409.2	415.6	415.6
65°	758.8	377.3	426.3	424.1	385.8	390.0	402.8	398.6	409.2	411.4
67.5°	633.0	332.5	387.9	392.2	377.3	387.9	396.4	381.5	402.8	402.8
70°	505.1	279.2	336.8	355.9	362.3	390.0	383.7	360.2	387.9	381.5
72.5°	392.2	236.6	277.1	311.2	345.3	387.9	355.9	330.4	347.4	336.8
75°	285.6	196.1	228.1	257.9	321.8	381.5	328.2	289.9	289.9	285.6
77.5°	200.4	159.9	183.3	204.6	298.4	364.5	294.1	249.4	238.7	236.6
80°	136.4	125.8	144.9	157.7	264.3	330.4	253.6	206.7	187.6	183.3
82.5°	89.5	89.5	98.0	106.6	204.6	275.0	198.2	153.5	198.2	189.7
85°	51.2	53.3	53.3	61.8	113.0	194.0	140.7	153.5	91.7	85.3
87.5°	17.1	17.1	17.1	17.1	23.4	78.9	59.7	55.4	21.3	19.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)