

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: P573194

Luminaire Tested: **ARCH-S-PA2-40-830-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573194
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-PA2-40-830-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 420mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5343 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

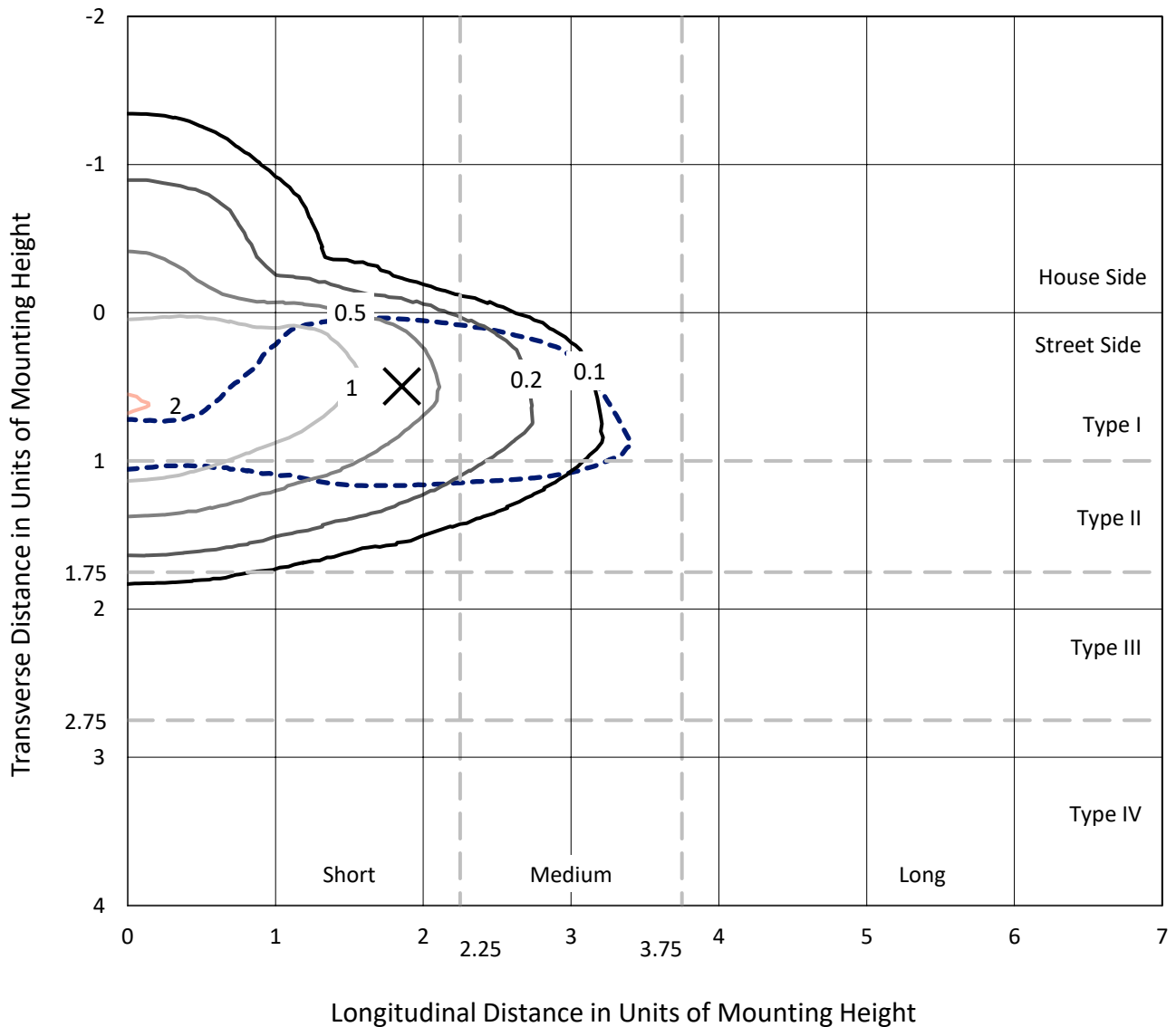
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

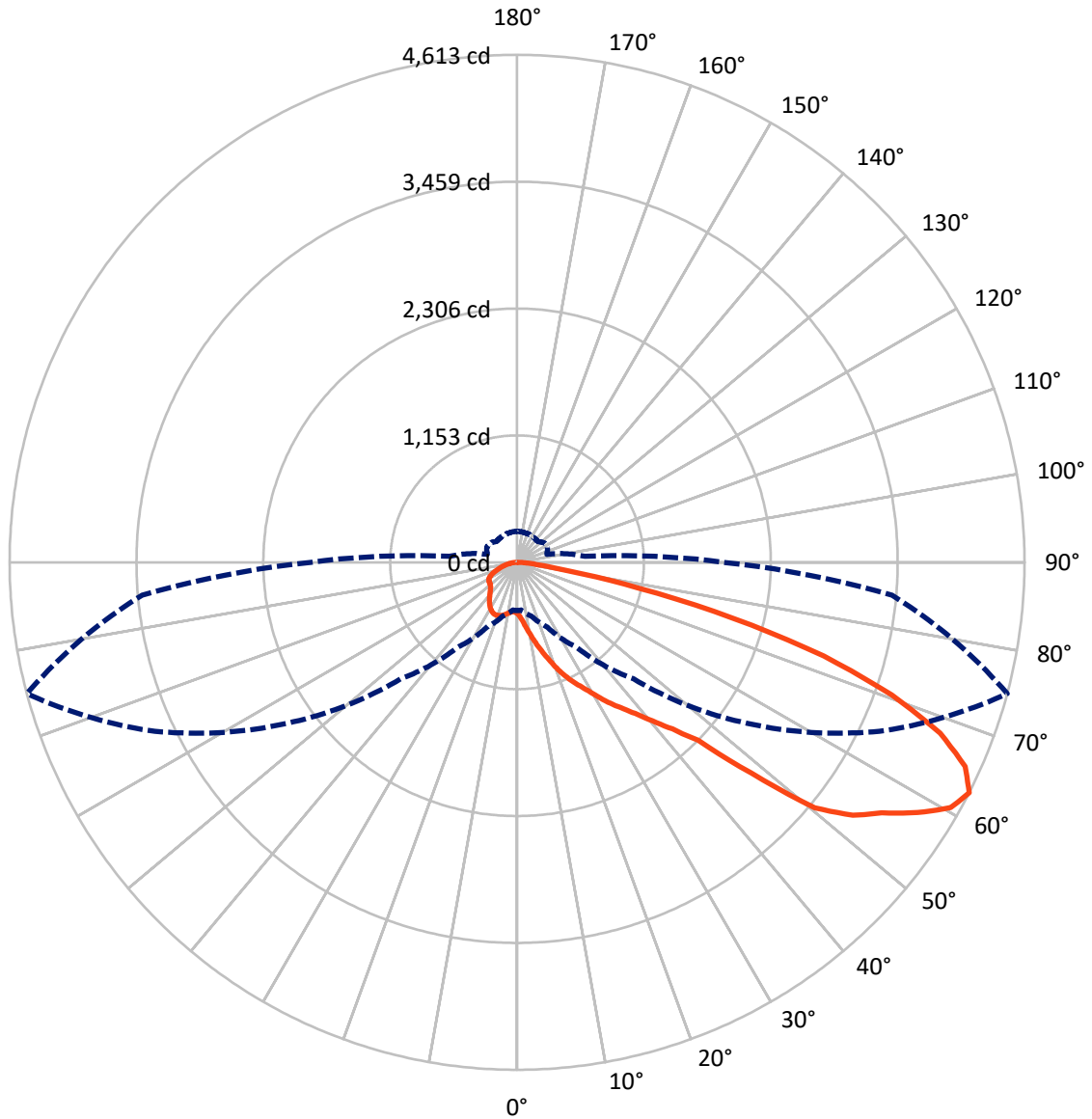
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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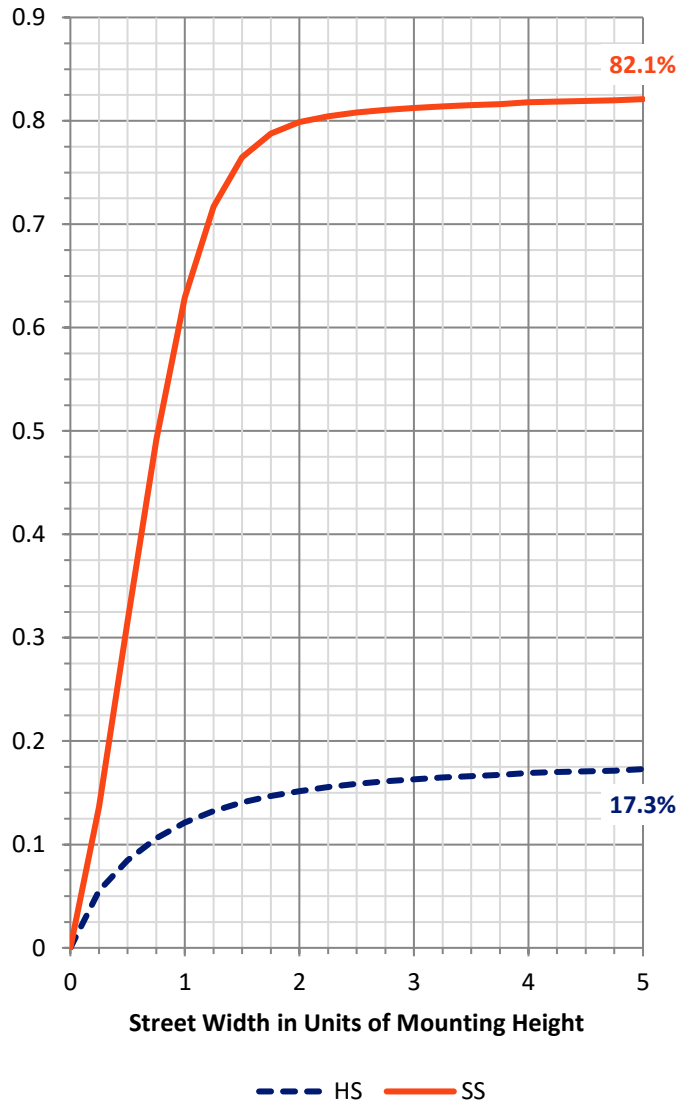
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	942.4	0.0	942.4
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	4400.6	0.0	4400.6
	% Fixture	82.4	0.0	82.4
Total	Lumens	5343.0	0.0	5343.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	1.0
10°-20°	221.1	4.1
20°-30°	437.4	8.2
30°-40°	729.1	13.6
40°-50°	1075.9	20.1
50°-60°	1293.3	24.2
60°-70°	1005.1	18.8
70°-80°	444.7	8.3
80°-90°	80.5	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°	5343.0	100.0
0°-180°	5343.0	100.0

Coefficient of Utilization

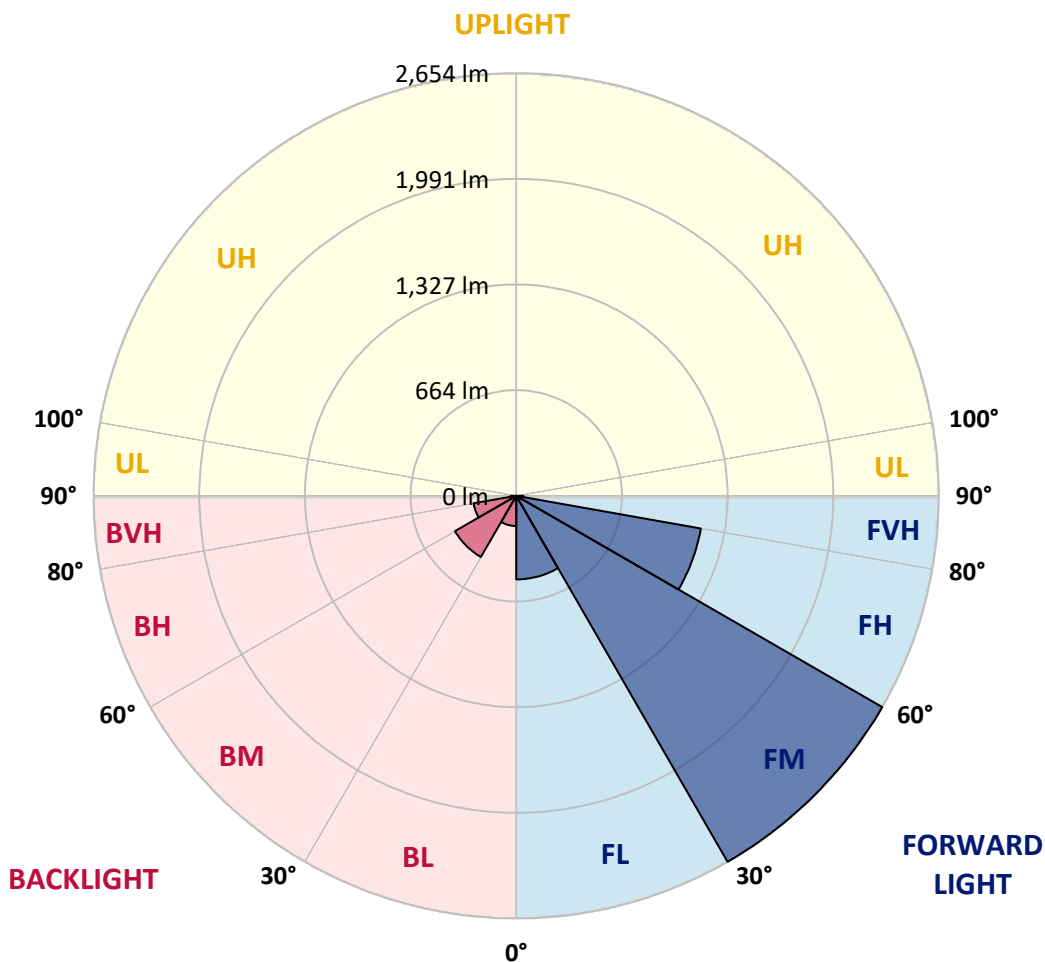


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	524.8	9.8			
FM (30°-60°)	2654.4	49.7			
FH (60°-80°)	1177.2	22.0			G1/1800
FVH (80°-90°)	44.2	0.8			G1/100
BL (0°-30°)	189.6	3.5	B1/500		
BM (30°-60°)	443.8	8.3	B1/1000		
BH (60°-80°)	272.6	5.1	B1/500		G1/500
BVH (80°-90°)	36.3	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°	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7
2.5°	595.5	578.2	578.2	559.5	560.9	545.0	527.7	510.4	491.7	477.3	470.1
5°	778.6	765.6	761.3	739.7	705.1	666.2	624.3	581.1	536.4	501.8	484.5
7.5°	950.2	940.1	934.3	909.8	862.3	820.4	754.1	674.8	598.4	533.5	507.5
10°	1077.1	1069.9	1058.4	1046.8	1012.2	976.2	894.0	781.5	669.0	572.4	533.5
12.5°	1169.4	1159.3	1159.3	1157.8	1134.8	1101.6	1025.2	904.1	751.2	615.7	562.3
15°	1231.4	1229.9	1234.3	1242.9	1237.1	1215.5	1139.1	1016.5	834.9	664.7	595.5
17.5°	1277.5	1271.8	1280.4	1303.5	1320.8	1312.1	1248.7	1124.7	927.1	718.1	631.5
20°	1328.0	1316.4	1328.0	1356.8	1378.5	1391.4	1361.1	1228.5	1026.6	775.7	666.2
22.5°	1424.6	1423.1	1417.4	1426.0	1440.5	1463.5	1446.2	1333.8	1123.2	833.4	706.5
25°	1597.6	1581.8	1565.9	1547.2	1531.3	1538.5	1524.1	1431.8	1211.2	896.9	741.1
27.5°	1790.8	1773.5	1744.7	1698.6	1655.3	1629.3	1599.1	1516.9	1296.3	954.5	774.3
30°	1968.2	1962.4	1919.2	1868.7	1793.7	1746.1	1688.5	1614.9	1398.6	1018.0	808.9
32.5°	2134.0	2122.5	2079.2	2025.9	1937.9	1884.6	1805.3	1721.6	1515.4	1095.8	845.0
35°	2276.8	2265.2	2214.7	2147.0	2070.6	2024.4	1933.6	1816.8	1622.1	1163.6	875.2
37.5°	2384.9	2371.9	2324.3	2258.0	2190.2	2168.6	2090.7	1937.9	1743.3	1248.7	912.7
40°	2445.5	2429.6	2397.9	2351.7	2295.5	2285.4	2252.2	2087.9	1896.1	1352.5	967.5
42.5°	2452.7	2438.2	2420.9	2416.6	2412.3	2420.9	2436.8	2258.0	2070.6	1490.9	1048.3
45°	2389.2	2380.6	2382.0	2431.0	2498.8	2578.1	2673.3	2508.9	2305.6	1754.8	1229.9
47.5°	2253.7	2249.4	2281.1	2363.3	2514.7	2694.9	2964.5	2938.6	2862.2	2180.1	1463.5
50°	2034.5	2027.3	2095.1	2224.8	2441.1	2733.8	3160.6	3444.7	3508.1	2510.3	1616.4
52.5°	1720.2	1728.8	1834.1	2011.4	2272.4	2692.0	3241.4	3652.3	3819.6	2754.0	1733.2
55°	1398.6	1385.7	1480.8	1700.0	2023.0	2539.2	3257.2	3772.0	4021.4	2979.0	1847.1
57.5°	1019.4	1051.1	1152.1	1351.1	1701.4	2262.3	3165.0	3854.2	4292.5	3203.9	1952.3
60°	690.7	690.7	780.1	979.0	1315.0	1926.4	2918.4	3823.9	4529.0	3379.8	1975.4
62.5°	439.8	435.5	507.5	648.9	941.6	1496.7	2549.3	3633.6	4612.6	3421.6	1878.8
65°	278.3	284.1	310.0	396.5	602.7	1062.7	2046.0	3254.4	4475.6	3325.0	1710.1
67.5°	223.5	224.9	237.9	274.0	370.6	682.0	1516.9	2730.9	4148.3	3081.3	1512.5
70°	197.5	200.4	203.3	216.3	253.8	431.1	996.3	2198.9	3611.9	2657.4	1300.6
72.5°	180.2	183.1	186.0	188.9	209.1	281.2	588.3	1666.8	2914.1	2041.7	992.0
75°	165.8	168.7	168.7	170.1	181.7	209.1	323.0	1149.2	2028.7	1270.3	618.6
77.5°	148.5	150.0	150.0	152.8	164.4	164.4	200.4	710.9	1126.1	575.3	312.9
80°	125.4	128.3	128.3	132.7	144.2	126.9	134.1	363.4	467.2	236.5	139.9
82.5°	92.3	98.0	100.9	108.1	115.4	96.6	96.6	183.1	197.5	105.3	75.0
85°	50.5	51.9	75.0	80.7	85.1	57.7	64.9	90.8	98.0	46.1	37.5
87.5°	14.4	15.9	36.0	44.7	40.4	24.5	27.4	34.6	34.6	13.0	10.1
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°	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7
2.5°	464.3	452.8	442.7	435.5	428.2	423.9	422.5	419.6	419.6	421.0
5°	470.1	449.9	434.0	425.4	419.6	416.7	415.3	415.3	416.7	416.7
7.5°	484.5	454.2	439.8	432.6	426.8	423.9	423.9	422.5	423.9	423.9
10°	504.7	467.2	451.3	442.7	438.3	434.0	432.6	431.1	431.1	431.1
12.5°	526.3	481.6	464.3	454.2	447.0	441.2	438.3	435.5	434.0	434.0
15°	546.5	496.0	472.9	461.4	451.3	442.7	436.9	432.6	431.1	431.1
17.5°	568.1	506.1	478.7	462.8	449.9	438.3	431.1	425.4	422.5	422.5
20°	591.2	513.3	478.7	458.5	441.2	429.7	421.0	415.3	409.5	409.5
22.5°	609.9	516.2	472.9	448.4	431.1	416.7	408.1	400.8	396.5	396.5
25°	625.8	513.3	460.0	432.6	412.4	399.4	390.8	385.0	380.7	380.7
27.5°	635.9	501.8	444.1	415.3	396.5	383.5	377.8	372.0	369.1	369.1
30°	641.6	487.4	423.9	396.5	377.8	370.6	367.7	361.9	357.6	356.1
32.5°	644.5	465.7	403.7	377.8	364.8	361.9	361.9	354.7	348.9	347.5
35°	641.6	442.7	383.5	361.9	357.6	359.0	356.1	347.5	340.3	337.4
37.5°	637.3	415.3	361.9	350.4	354.7	357.6	348.9	337.4	325.9	323.0
40°	634.4	390.8	344.6	338.8	351.8	353.3	337.4	315.8	307.1	304.2
42.5°	648.9	366.2	328.8	330.2	344.6	346.1	317.2	307.1	301.4	299.9
45°	697.9	344.6	315.8	324.4	336.0	330.2	307.1	305.7	301.4	299.9
47.5°	735.4	328.8	310.0	320.1	328.8	308.6	305.7	304.2	299.9	298.5
50°	748.3	318.7	308.6	317.2	318.7	298.5	302.8	302.8	298.5	297.0
52.5°	749.8	312.9	311.4	315.8	302.8	294.1	299.9	299.9	295.6	294.1
55°	755.6	310.0	312.9	315.8	285.5	288.4	294.1	295.6	291.3	289.8
57.5°	744.0	305.7	315.8	317.2	278.3	282.6	288.4	288.4	288.4	288.4
60°	699.3	297.0	314.3	314.3	272.5	275.4	281.2	284.1	285.5	285.5
62.5°	617.1	279.7	305.7	305.7	266.8	269.6	276.8	276.8	281.2	281.2
65°	513.3	255.2	288.4	286.9	261.0	263.9	272.5	269.6	276.8	278.3
67.5°	428.2	224.9	262.4	265.3	255.2	262.4	268.2	258.1	272.5	272.5
70°	341.7	188.9	227.8	240.8	245.1	263.9	259.5	243.7	262.4	258.1
72.5°	265.3	160.1	187.4	210.5	233.6	262.4	240.8	223.5	235.0	227.8
75°	193.2	132.7	154.3	174.5	217.7	258.1	222.1	196.1	196.1	193.2
77.5°	135.5	108.1	124.0	138.4	201.9	246.6	199.0	168.7	161.5	160.1
80°	92.3	85.1	98.0	106.7	178.8	223.5	171.6	139.9	126.9	124.0
82.5°	60.6	60.6	66.3	72.1	138.4	186.0	134.1	103.8	134.1	128.3
85°	34.6	36.0	36.0	41.8	76.4	131.2	95.2	103.8	62.0	57.7
87.5°	11.5	11.5	11.5	11.5	15.9	53.4	40.4	37.5	14.4	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)