

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: P573088

Luminaire Tested: **ARCH-S-PA2-30-750-U-T2U**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573088  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-30-750-U-T2U  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5183 lumens  
Efficiency: N/A  
Efficacy: 154.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

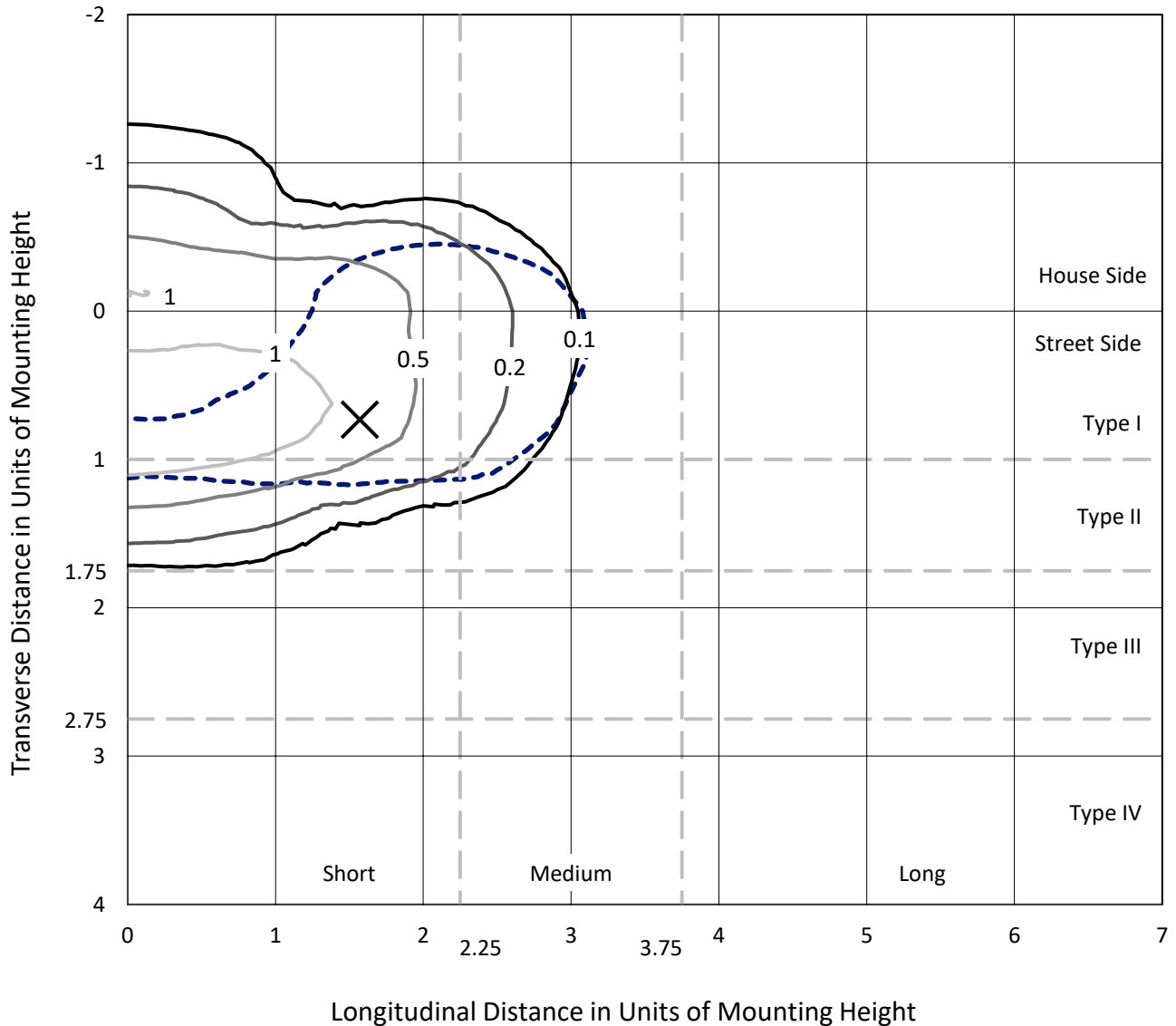
Input Watts (W): 33.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

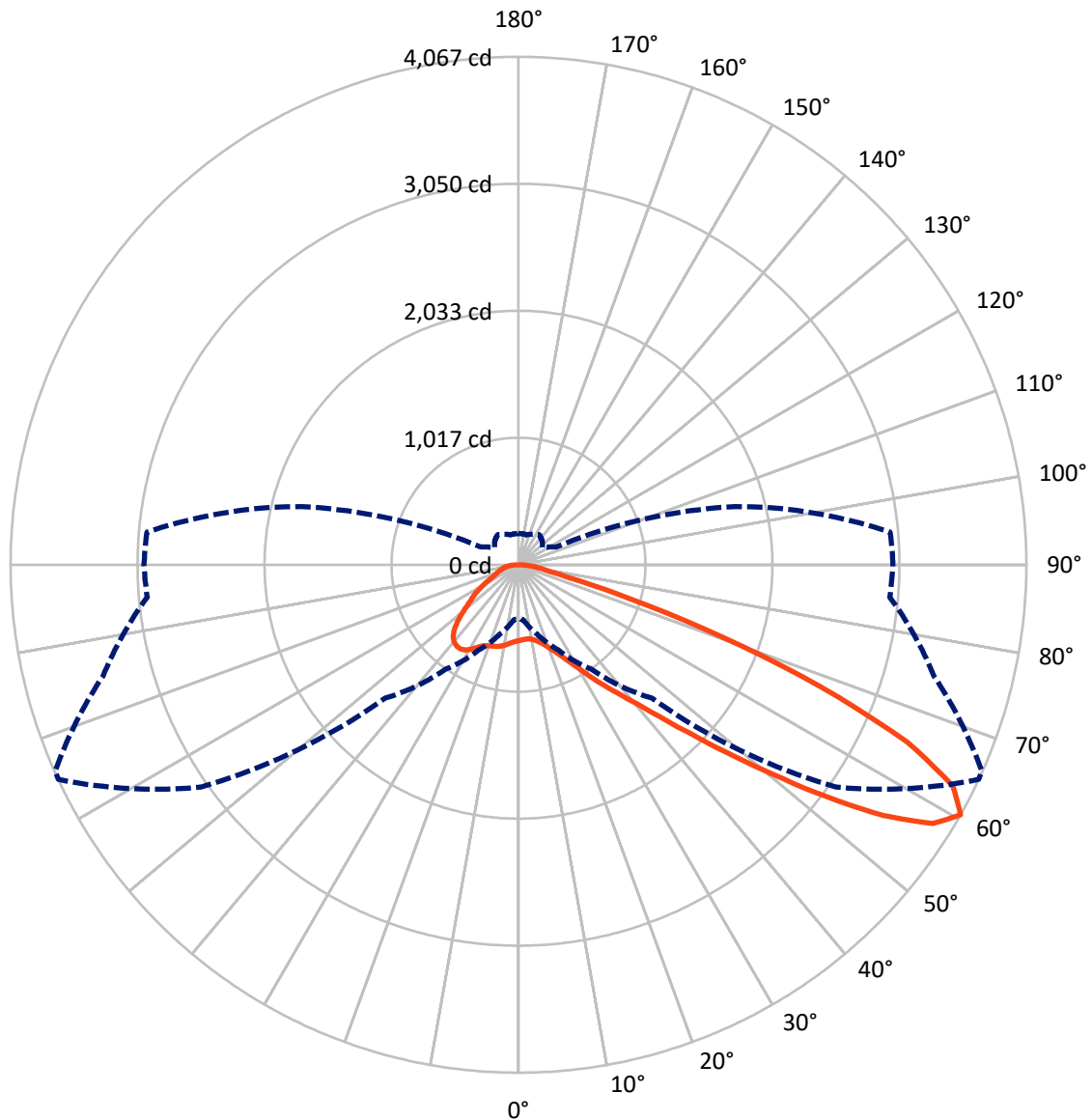
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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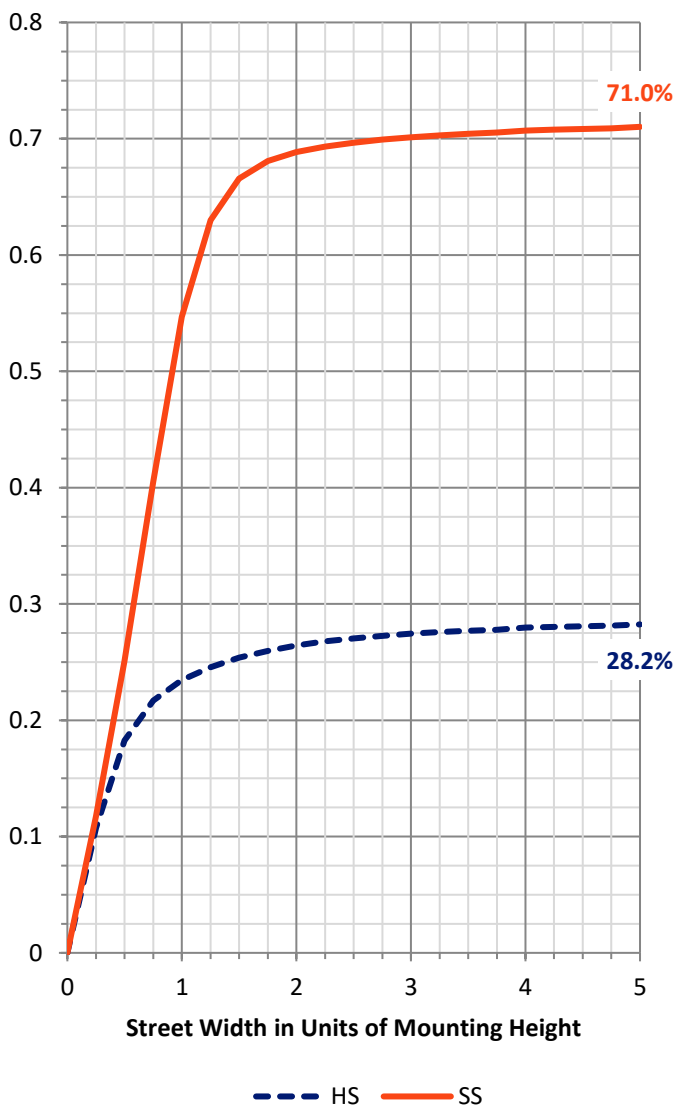
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1483.7	0.0	1483.7
	% Fixture	28.6	0.0	28.6
<b>Street Side</b>	Lumens	3699.3	0.0	3699.3
	% Fixture	71.4	0.0	71.4
<b>Total</b>	Lumens	5183.0	0.0	5183.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.8	1.1
10°-20°	189.1	3.6
20°-30°	362.5	7.0
30°-40°	629.6	12.1
40°-50°	1067.7	20.6
50°-60°	1329.5	25.7
60°-70°	1071.4	20.7
70°-80°	405.7	7.8
80°-90°	68.8	1.3
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°	5183.0	100.0
0°-180°	5183.0	100.0

**Coefficient of Utilization**

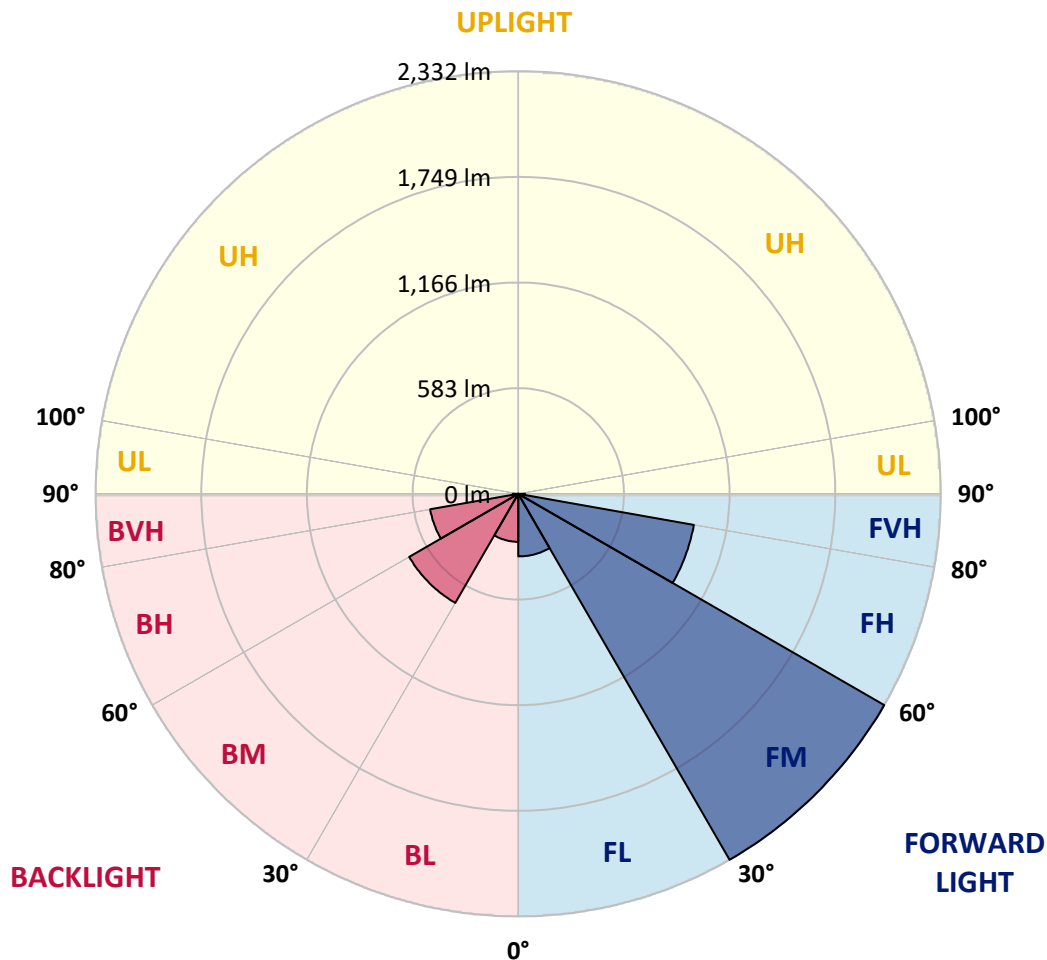


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	345.5	6.7			
FM (30°-60°)	2331.8	45.0			
FH (60°-80°)	983.7	19.0			G1/1800
FVH (80°-90°)	38.2	0.7			G1/100
BL (0°-30°)	264.8	5.1	B1/500		
BM (30°-60°)	695.0	13.4	B1/1000		
BH (60°-80°)	493.3	9.5	B1/500		G1/500
BVH (80°-90°)	30.6	0.6			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°	66°	75°	85°
0°	608.1	608.1	608.1	608.1	608.1	608.1	608.1	608.1	608.1	608.1	608.1
2.5°	593.9	593.9	593.9	595.3	596.8	598.2	601.0	601.0	601.0	602.4	605.3
5°	582.5	581.1	582.5	584.0	586.8	589.7	595.3	598.2	598.2	603.9	609.5
7.5°	584.0	581.1	581.1	582.5	585.4	588.2	593.9	598.2	599.6	606.7	616.6
10°	598.2	593.9	593.9	595.3	595.3	598.2	602.4	608.1	609.5	616.6	626.6
12.5°	628.0	623.8	622.3	618.1	613.8	616.6	620.9	622.3	623.8	628.0	638.0
15°	690.5	683.4	672.1	663.5	652.2	645.1	643.6	645.1	645.1	646.5	652.2
17.5°	780.0	771.5	754.5	736.0	709.0	686.3	679.2	673.5	673.5	669.2	669.2
20°	889.4	876.7	856.8	829.8	790.0	748.8	724.6	711.8	707.6	700.5	690.5
22.5°	1015.9	1007.4	981.8	940.6	880.9	825.5	785.7	757.3	757.3	740.3	718.9
25°	1165.1	1149.5	1119.6	1071.3	990.3	910.8	856.8	815.6	811.3	784.3	750.2
27.5°	1310.0	1300.1	1263.1	1199.2	1102.6	1010.2	934.9	886.6	879.5	836.9	784.3
30°	1486.2	1474.8	1419.4	1329.9	1226.2	1121.0	1033.0	970.4	963.3	905.1	831.2
32.5°	1705.0	1666.7	1598.5	1496.2	1362.6	1244.7	1143.8	1077.0	1068.5	1001.7	913.6
35°	1970.7	1938.0	1820.1	1712.1	1553.0	1398.1	1277.3	1189.2	1177.9	1098.3	987.5
37.5°	2158.3	2142.6	2061.6	1976.4	1794.5	1585.7	1437.9	1315.7	1304.3	1199.2	1055.7
40°	2276.2	2260.6	2237.8	2213.7	2112.8	1876.9	1631.1	1464.9	1446.4	1347.0	1192.1
42.5°	2337.3	2324.5	2328.8	2377.1	2405.5	2368.5	1906.8	1663.8	1651.0	1530.3	1358.3
45°	2301.8	2293.2	2334.4	2462.3	2601.6	2874.4	2260.6	1925.2	1891.1	1747.6	1560.1
47.5°	2131.3	2105.7	2202.3	2419.7	2718.1	3115.9	2686.8	2247.8	2210.8	2004.8	1764.7
50°	1780.3	1773.2	1905.4	2181.0	2672.6	3211.1	3142.9	2628.6	2601.6	2281.9	1992.0
52.5°	1453.5	1450.7	1553.0	1805.9	2382.8	3144.3	3474.0	3081.8	3000.8	2560.4	2239.3
55°	1128.2	1126.7	1217.7	1406.6	1901.1	2830.3	3630.3	3543.6	3483.9	2864.4	2493.6
57.5°	771.5	761.6	879.5	1023.0	1427.9	2242.1	3528.0	3908.7	3871.8	3187.0	2763.5
60°	429.1	443.3	574.0	751.6	1021.6	1510.4	3101.7	4066.5	4060.8	3444.1	2983.8
62.5°	304.1	309.7	365.2	534.2	672.1	865.3	2392.7	3903.1	3948.5	3586.2	3108.8
65°	252.9	255.8	282.7	395.0	491.6	500.1	1491.9	3418.6	3478.2	3542.2	3135.8
67.5°	238.7	240.1	254.3	291.3	385.0	362.3	666.4	2610.1	2736.5	3187.0	2959.6
70°	217.4	218.8	240.1	257.2	311.2	285.6	342.4	1733.4	1903.9	2519.2	2551.8
72.5°	186.1	190.4	207.4	241.5	252.9	237.3	264.3	926.4	1095.5	1685.1	1970.7
75°	160.6	163.4	176.2	204.6	237.3	189.0	224.5	422.0	494.5	988.9	1247.5
77.5°	129.3	130.7	149.2	167.7	198.9	153.5	174.8	252.9	265.7	483.1	564.1
80°	98.0	98.0	110.8	133.6	147.8	147.8	127.9	176.2	183.3	230.2	223.1
82.5°	75.3	73.9	83.8	93.8	106.6	123.6	96.6	116.5	119.4	139.2	119.4
85°	49.7	49.7	55.4	63.9	71.0	68.2	75.3	68.2	71.0	86.7	65.4
87.5°	21.3	21.3	29.8	28.4	31.3	32.7	36.9	32.7	32.7	39.8	29.8
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°	608.1	608.1	608.1	608.1	608.1	608.1	608.1	608.1	608.1	608.1	608.1
2.5°	606.7	608.1	611.0	612.4	616.6	618.1	618.1	620.9	620.9	623.8	623.8
5°	611.0	615.2	619.5	623.8	628.0	629.4	632.3	633.7	633.7	636.5	635.1
7.5°	619.5	623.8	632.3	636.5	642.2	645.1	643.6	645.1	643.6	645.1	645.1
10°	630.9	636.5	646.5	652.2	656.4	657.9	653.6	649.3	643.6	643.6	643.6
12.5°	643.6	647.9	660.7	665.0	667.8	663.5	652.2	643.6	639.4	640.8	639.4
15°	656.4	660.7	670.6	674.9	674.9	662.1	652.2	649.3	647.9	649.3	649.3
17.5°	669.2	673.5	682.0	682.0	677.7	667.8	657.9	647.9	640.8	636.5	636.5
20°	686.3	686.3	689.1	689.1	687.7	672.1	647.9	623.8	609.5	601.0	599.6
22.5°	709.0	703.3	697.6	697.6	703.3	662.1	615.2	578.3	555.6	552.7	547.0
25°	733.2	720.4	706.2	716.1	706.2	636.5	569.8	520.0	493.0	483.1	485.9
27.5°	758.7	738.8	717.5	745.9	692.0	586.8	505.8	450.4	424.8	417.7	417.7
30°	794.3	764.4	733.2	777.2	665.0	530.0	430.5	390.7	376.5	370.8	369.4
32.5°	862.5	817.0	771.5	805.6	635.1	456.1	379.4	355.2	338.2	332.5	336.7
35°	923.5	859.6	829.8	818.4	588.2	396.4	348.1	326.8	312.6	305.5	305.5
37.5°	979.0	917.9	895.1	818.4	527.1	359.5	328.2	311.2	292.7	287.0	287.0
40°	1099.7	1018.7	979.0	807.0	451.8	341.0	318.3	298.4	282.7	277.1	275.6
42.5°	1266.0	1156.6	1065.6	781.5	387.9	332.5	312.6	289.9	277.1	272.8	271.4
45°	1442.2	1345.5	1148.0	736.0	346.7	324.0	311.2	287.0	271.4	267.1	265.7
47.5°	1655.3	1555.8	1243.2	666.4	318.3	318.3	309.7	282.7	268.5	264.3	264.3
50°	1891.1	1808.7	1364.0	586.8	297.0	314.0	306.9	282.7	267.1	262.9	261.4
52.5°	2132.7	2094.3	1490.5	508.7	275.6	308.3	305.5	282.7	264.3	260.0	260.0
55°	2439.6	2408.3	1636.8	450.4	258.6	297.0	305.5	279.9	260.0	257.2	257.2
57.5°	2740.8	2729.4	1750.5	399.3	245.8	282.7	301.2	275.6	255.8	254.3	254.3
60°	2998.0	2986.6	1798.8	335.3	233.0	268.5	292.7	268.5	248.6	250.1	250.1
62.5°	3157.1	3091.8	1763.3	277.1	220.2	255.8	282.7	260.0	241.5	245.8	244.4
65°	3185.5	3033.5	1625.4	231.6	206.0	241.5	271.4	250.1	231.6	241.5	240.1
67.5°	2976.7	2723.8	1366.9	201.8	191.8	225.9	258.6	235.9	220.2	234.4	230.2
70°	2524.8	2212.3	1011.6	179.0	177.6	207.4	241.5	218.8	204.6	211.7	206.0
72.5°	1879.8	1597.0	655.0	162.0	162.0	186.1	217.4	197.5	183.3	184.7	179.0
75°	1172.2	981.8	372.3	146.3	146.3	164.8	193.2	173.3	163.4	157.7	164.8
77.5°	532.8	431.9	196.1	130.7	132.1	140.7	166.2	147.8	136.4	127.9	132.1
80°	197.5	176.2	127.9	112.2	115.1	116.5	133.6	117.9	108.0	102.3	99.5
82.5°	102.3	95.2	86.7	89.5	93.8	89.5	103.7	88.1	76.7	72.5	61.1
85°	51.2	49.7	52.6	59.7	65.4	55.4	62.5	56.8	46.9	34.1	34.1
87.5°	19.9	21.3	19.9	27.0	29.8	25.6	28.4	19.9	14.2	7.1	5.7
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)