

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: P573061

Luminaire Tested: **ARCH-S-PA2-30-730-U-T2U**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573061  
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-PA2-30-730-U-T2U  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 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: 4720 lumens  
Efficiency: N/A  
Efficacy: 140.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

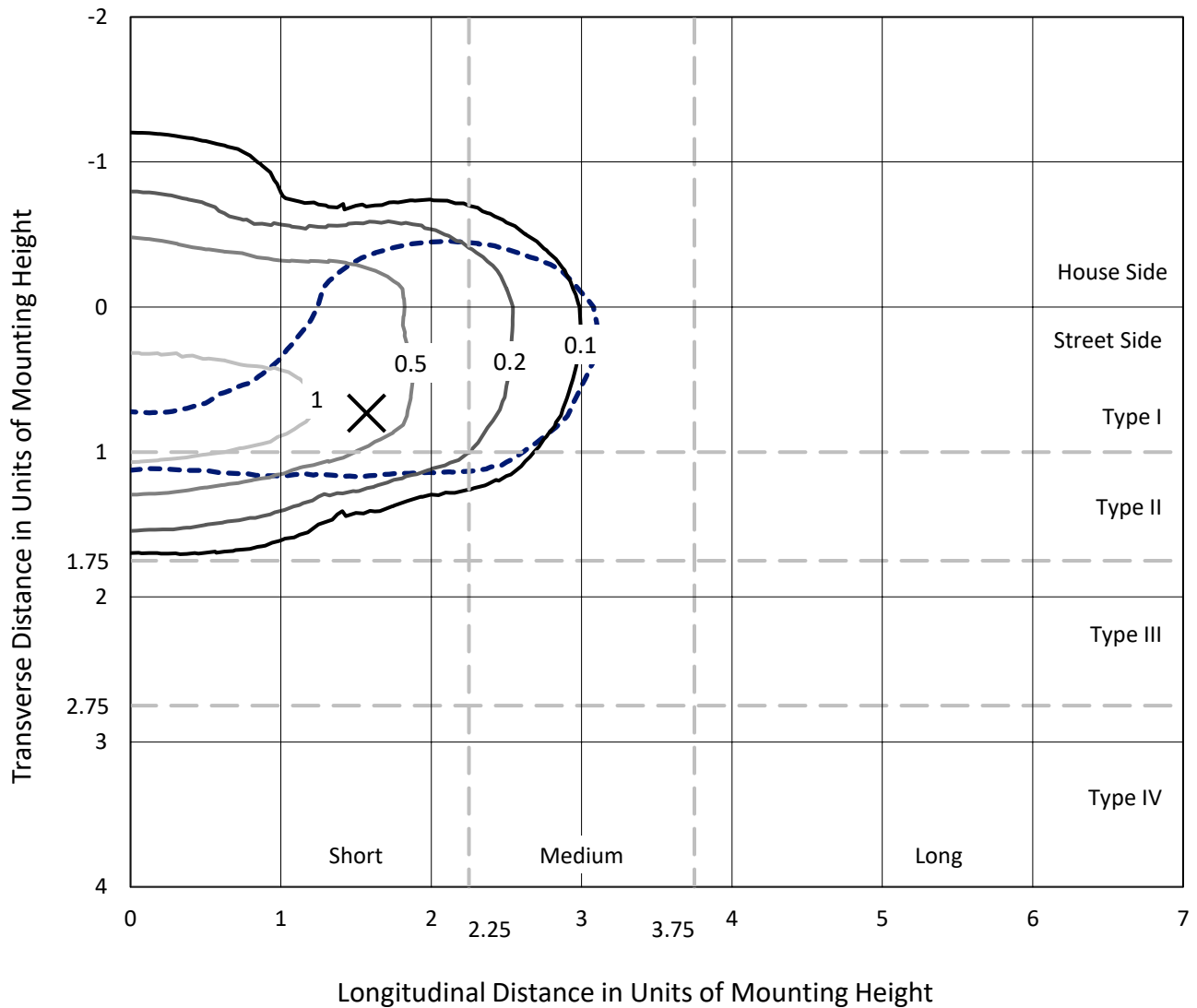
Input Watts (W): 33.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

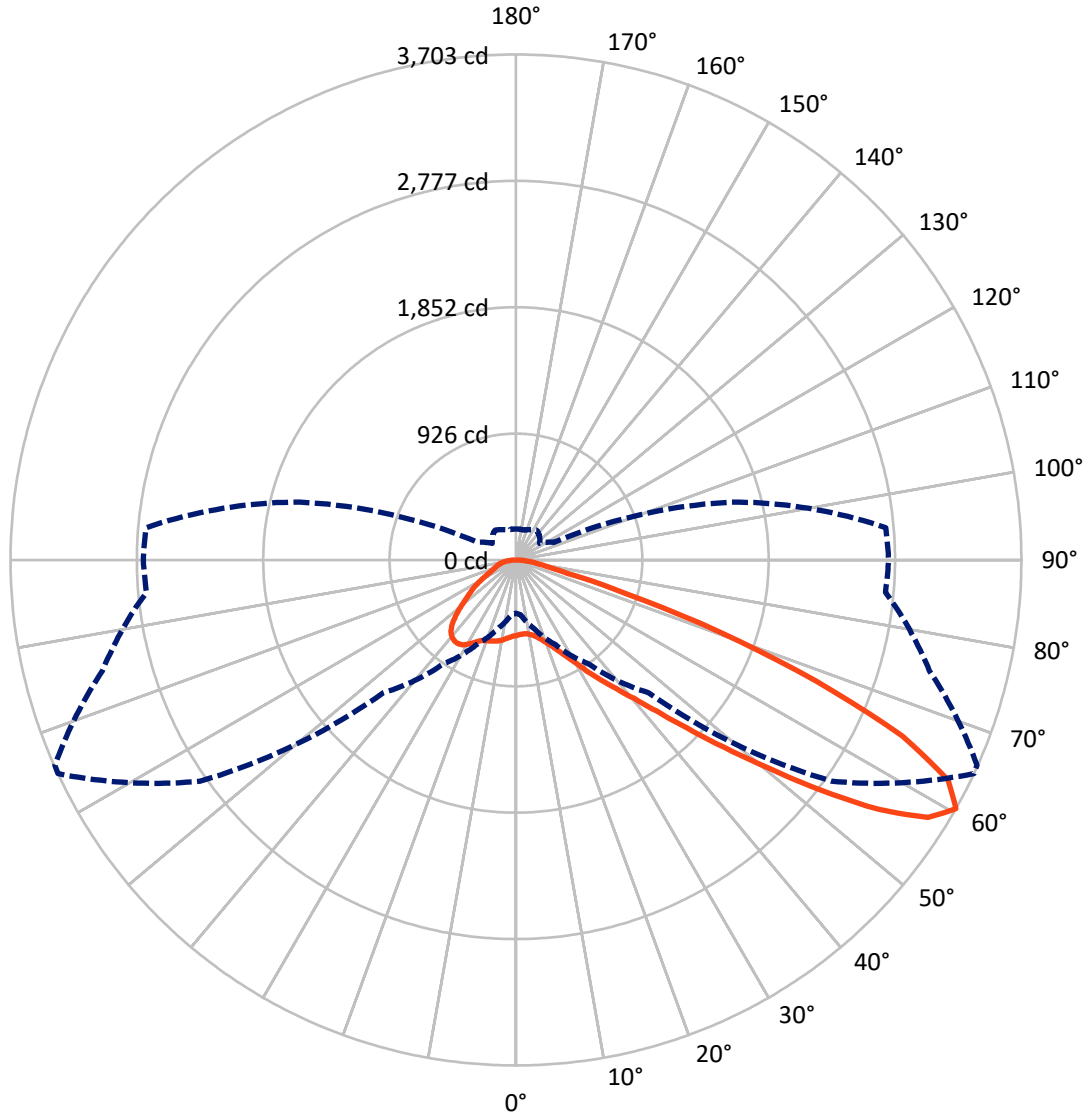
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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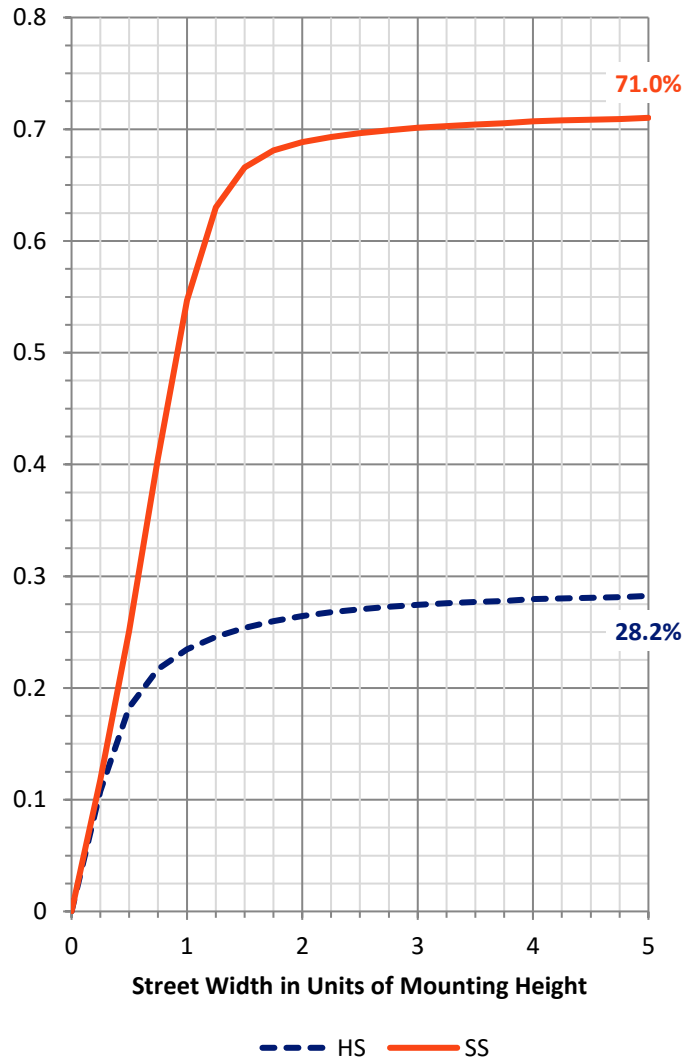
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1351.2	0.0	1351.2
	% Fixture	28.6	0.0	28.6
<b>Street Side</b>	Lumens	3368.8	0.0	3368.8
	% Fixture	71.4	0.0	71.4
<b>Total</b>	Lumens	4720.0	0.0	4720.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.5	1.1
10°-20°	172.2	3.6
20°-30°	330.1	7.0
30°-40°	573.3	12.1
40°-50°	972.3	20.6
50°-60°	1210.8	25.7
60°-70°	975.7	20.7
70°-80°	369.5	7.8
80°-90°	62.7	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°	4720.0	100.0
0°-180°	4720.0	100.0

**Coefficient of Utilization**



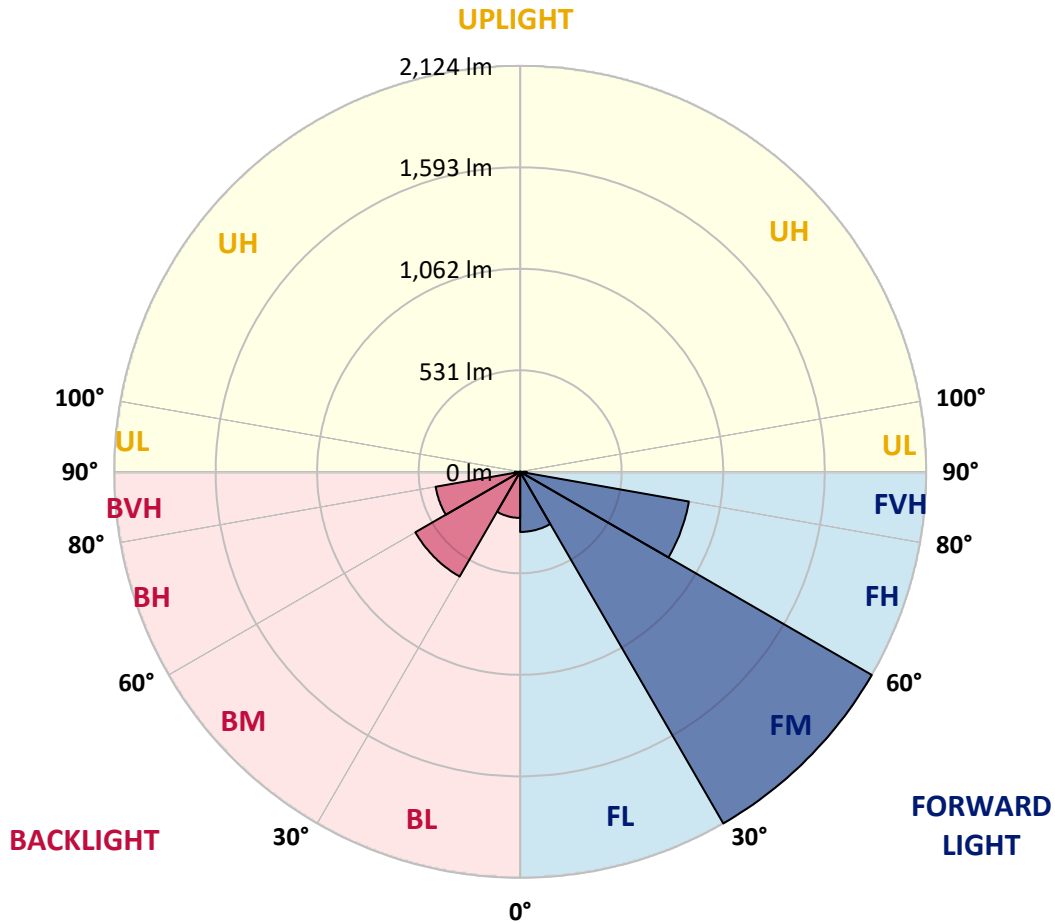
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	314.7	6.7			
FM (30°-60°)	2123.5	45.0			
FH (60°-80°)	895.8	19.0			G1/1800
FVH (80°-90°)	34.8	0.7			G1/100
BL (0°-30°)	241.1	5.1	B1/500		
BM (30°-60°)	632.9	13.4	B1/1000		
BH (60°-80°)	449.3	9.5	B1/500		G1/500
BVH (80°-90°)	27.9	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°	553.8	553.8	553.8	553.8	553.8	553.8	553.8	553.8	553.8	553.8	553.8
2.5°	540.9	540.9	540.9	542.2	543.4	544.7	547.3	547.3	547.3	548.6	551.2
5°	530.5	529.2	530.5	531.8	534.4	537.0	542.2	544.7	544.7	549.9	555.1
7.5°	531.8	529.2	529.2	530.5	533.1	535.7	540.9	544.7	546.0	552.5	561.6
10°	544.7	540.9	540.9	542.2	542.2	544.7	548.6	553.8	555.1	561.6	570.6
12.5°	571.9	568.0	566.7	562.9	559.0	561.6	565.4	566.7	568.0	571.9	581.0
15°	628.8	622.4	612.0	604.3	593.9	587.4	586.1	587.4	587.4	588.7	593.9
17.5°	710.4	702.6	687.1	670.3	645.7	625.0	618.5	613.3	613.3	609.4	609.4
20°	810.0	798.3	780.2	755.6	719.4	681.9	659.9	648.3	644.4	637.9	628.8
22.5°	925.2	917.4	894.1	856.6	802.2	751.8	715.5	689.7	689.7	674.1	654.7
25°	1061.0	1046.8	1019.6	975.6	901.9	829.4	780.2	742.7	738.8	714.2	683.2
27.5°	1193.0	1183.9	1150.3	1092.1	1004.1	920.0	851.4	807.4	800.9	762.1	714.2
30°	1353.4	1343.1	1292.6	1211.1	1116.7	1020.9	940.7	883.7	877.3	824.2	756.9
32.5°	1552.7	1517.8	1455.7	1362.5	1240.9	1133.5	1041.6	980.8	973.0	912.2	832.0
35°	1794.7	1764.9	1657.5	1559.2	1414.3	1273.2	1163.2	1083.0	1072.7	1000.2	899.3
37.5°	1965.5	1951.2	1877.5	1799.8	1634.2	1444.0	1309.4	1198.2	1187.8	1092.1	961.4
40°	2072.9	2058.6	2037.9	2015.9	1924.1	1709.3	1485.4	1334.0	1317.2	1226.6	1085.6
42.5°	2128.5	2116.9	2120.7	2164.7	2190.6	2157.0	1736.4	1515.2	1503.5	1393.6	1237.0
45°	2096.2	2088.4	2125.9	2242.4	2369.2	2617.6	2058.6	1753.3	1722.2	1591.5	1420.7
47.5°	1940.9	1917.6	2005.6	2203.5	2475.3	2837.6	2446.8	2047.0	2013.3	1825.7	1607.0
50°	1621.3	1614.8	1735.1	1986.2	2433.9	2924.3	2862.2	2393.8	2369.2	2078.0	1814.1
52.5°	1323.7	1321.1	1414.3	1644.6	2169.9	2863.4	3163.6	2806.5	2732.8	2331.6	2039.2
55°	1027.4	1026.1	1108.9	1281.0	1731.3	2577.5	3306.0	3227.0	3172.7	2608.5	2270.8
57.5°	702.6	693.5	800.9	931.6	1300.4	2041.8	3212.8	3559.6	3525.9	2902.3	2516.7
60°	390.8	403.7	522.7	684.5	930.3	1375.4	2824.6	3703.2	3698.0	3136.5	2717.2
62.5°	276.9	282.1	332.5	486.5	612.0	788.0	2179.0	3554.4	3595.8	3265.9	2831.1
65°	230.3	232.9	257.5	359.7	447.7	455.5	1358.6	3113.2	3167.5	3225.7	2855.7
67.5°	217.4	218.7	231.6	265.3	350.7	329.9	606.8	2376.9	2492.1	2902.3	2695.2
70°	198.0	199.3	218.7	234.2	283.4	260.1	311.8	1578.6	1733.9	2294.1	2323.9
72.5°	169.5	173.4	188.9	220.0	230.3	216.1	240.7	843.6	997.6	1534.6	1794.7
75°	146.2	148.8	160.4	186.3	216.1	172.1	204.4	384.3	450.3	900.6	1136.1
77.5°	117.7	119.0	135.9	152.7	181.1	139.7	159.2	230.3	242.0	439.9	513.7
80°	89.3	89.3	100.9	121.6	134.6	134.6	116.5	160.4	166.9	209.6	203.1
82.5°	68.6	67.3	76.3	85.4	97.0	112.6	88.0	106.1	108.7	126.8	108.7
85°	45.3	45.3	50.5	58.2	64.7	62.1	68.6	62.1	64.7	78.9	59.5
87.5°	19.4	19.4	27.2	25.9	28.5	29.8	33.6	29.8	29.8	36.2	27.2
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°	553.8	553.8	553.8	553.8	553.8	553.8	553.8	553.8	553.8	553.8	553.8
2.5°	552.5	553.8	556.4	557.7	561.6	562.9	562.9	565.4	565.4	568.0	568.0
5°	556.4	560.3	564.1	568.0	571.9	573.2	575.8	577.1	577.1	579.7	578.4
7.5°	564.1	568.0	575.8	579.7	584.9	587.4	586.1	587.4	586.1	587.4	587.4
10°	574.5	579.7	588.7	593.9	597.8	599.1	595.2	591.3	586.1	586.1	586.1
12.5°	586.1	590.0	601.7	605.6	608.1	604.3	593.9	586.1	582.3	583.6	582.3
15°	597.8	601.7	610.7	614.6	614.6	603.0	593.9	591.3	590.0	591.3	591.3
17.5°	609.4	613.3	621.1	621.1	617.2	608.1	599.1	590.0	583.6	579.7	579.7
20°	625.0	625.0	627.6	627.6	626.3	612.0	590.0	568.0	555.1	547.3	546.0
22.5°	645.7	640.5	635.3	635.3	640.5	603.0	560.3	526.6	505.9	503.3	498.2
25°	667.7	656.0	643.1	652.1	643.1	579.7	518.9	473.6	449.0	439.9	442.5
27.5°	691.0	672.8	653.4	679.3	630.1	534.4	460.6	410.2	386.9	380.4	380.4
30°	723.3	696.1	667.7	707.8	605.6	482.6	392.1	355.8	342.9	337.7	336.4
32.5°	785.4	744.0	702.6	733.7	578.4	415.3	345.5	323.5	308.0	302.8	306.7
35°	841.0	782.8	755.6	745.3	535.7	361.0	317.0	297.6	284.7	278.2	278.2
37.5°	891.5	835.9	815.2	745.3	480.0	327.4	298.9	283.4	266.5	261.4	261.4
40°	1001.5	927.7	891.5	734.9	411.5	310.5	289.8	271.7	257.5	252.3	251.0
42.5°	1152.9	1053.3	970.4	711.7	353.2	302.8	284.7	264.0	252.3	248.4	247.1
45°	1313.3	1225.3	1045.5	670.3	315.7	295.0	283.4	261.4	247.1	243.3	242.0
47.5°	1507.4	1416.8	1132.2	606.8	289.8	289.8	282.1	257.5	244.6	240.7	240.7
50°	1722.2	1647.2	1242.2	534.4	270.4	286.0	279.5	257.5	243.3	239.4	238.1
52.5°	1942.2	1907.2	1357.3	463.2	251.0	280.8	278.2	257.5	240.7	236.8	236.8
55°	2221.7	2193.2	1490.6	410.2	235.5	270.4	278.2	254.9	236.8	234.2	234.2
57.5°	2496.0	2485.6	1594.1	363.6	223.8	257.5	274.3	251.0	232.9	231.6	231.6
60°	2730.2	2719.8	1638.1	305.4	212.2	244.6	266.5	244.6	226.4	227.7	227.7
62.5°	2875.1	2815.6	1605.8	252.3	200.6	232.9	257.5	236.8	220.0	223.8	222.6
65°	2901.0	2762.5	1480.2	210.9	187.6	220.0	247.1	227.7	210.9	220.0	218.7
67.5°	2710.8	2480.4	1244.8	183.7	174.7	205.7	235.5	214.8	200.6	213.5	209.6
70°	2299.3	2014.6	921.3	163.0	161.7	188.9	220.0	199.3	186.3	192.8	187.6
72.5°	1711.9	1454.4	596.5	147.5	147.5	169.5	198.0	179.9	166.9	168.2	163.0
75°	1067.5	894.1	339.0	133.3	133.3	150.1	176.0	157.9	148.8	143.6	150.1
77.5°	485.2	393.4	178.6	119.0	120.3	128.1	151.4	134.6	124.2	116.5	120.3
80°	179.9	160.4	116.5	102.2	104.8	106.1	121.6	107.4	98.3	93.2	90.6
82.5°	93.2	86.7	78.9	81.5	85.4	81.5	94.5	80.2	69.9	66.0	55.6
85°	46.6	45.3	47.9	54.3	59.5	50.5	56.9	51.8	42.7	31.1	31.1
87.5°	18.1	19.4	18.1	24.6	27.2	23.3	25.9	18.1	12.9	6.5	5.2
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)