

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: P573083

Luminaire Tested: **ARCH-S-PA2-30-740-U-T4W**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573083  
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-PA2-30-740-U-T4W  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5228 lumens  
Efficiency: N/A  
Efficacy: 156.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

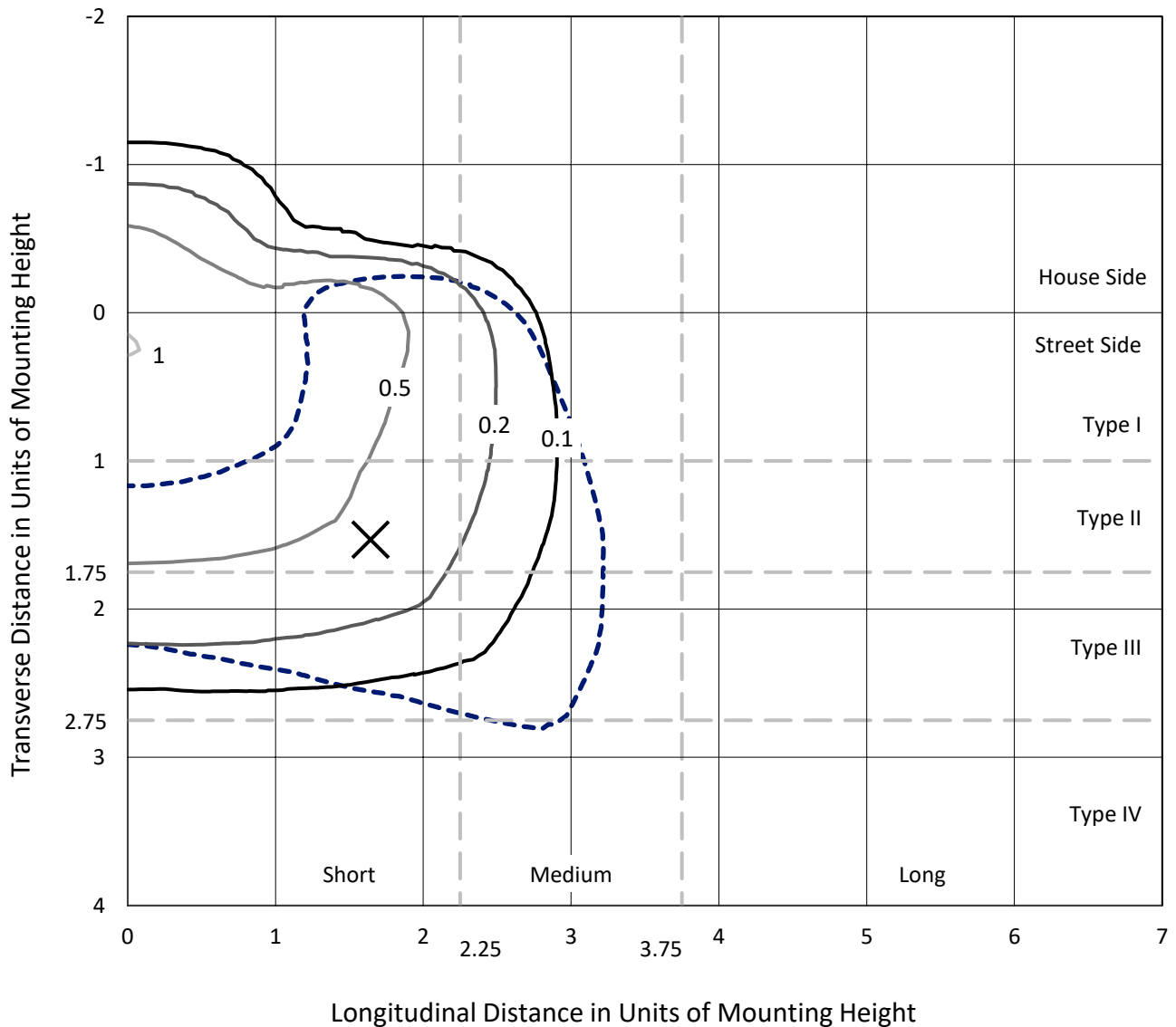
Input Watts (W): 33.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

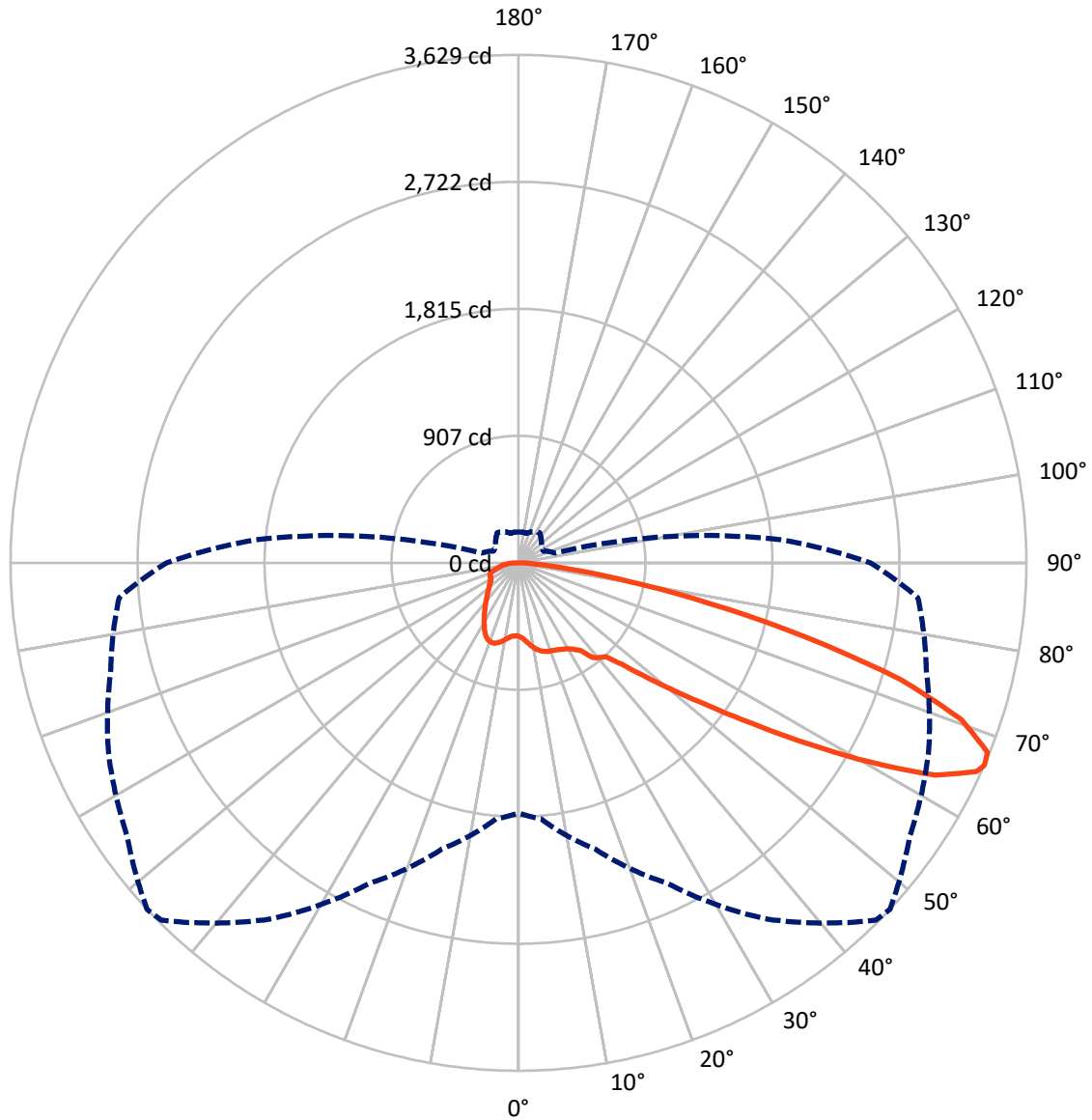
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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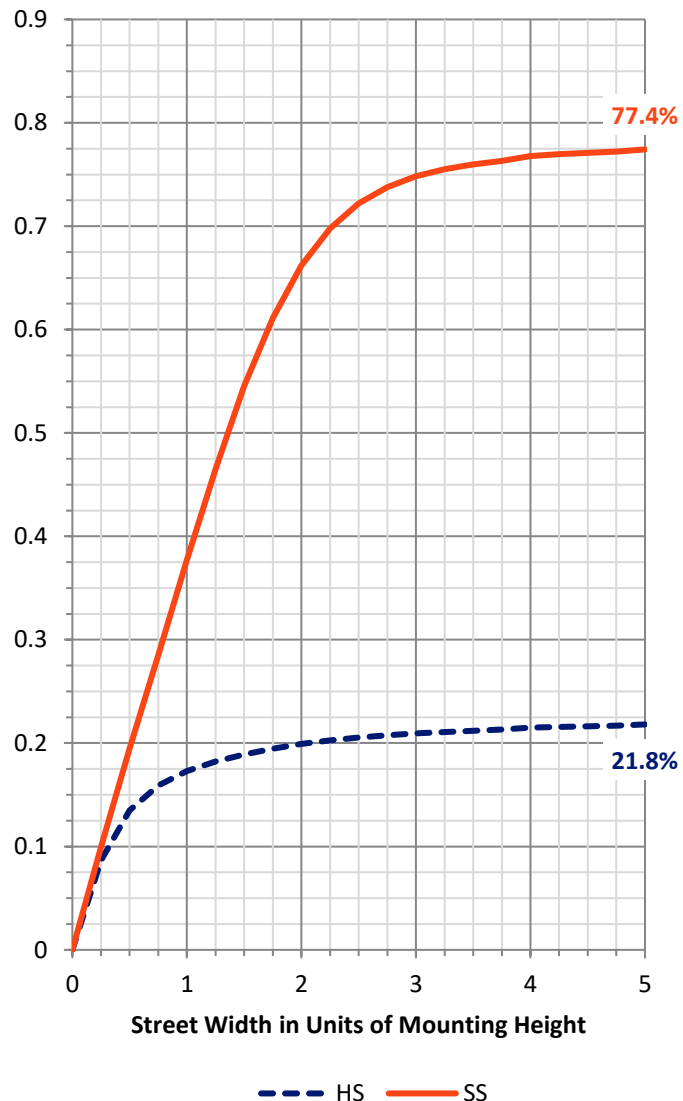
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1162.3	0.0	1162.3
	% Fixture	22.2	0.0	22.2
<b>Street Side</b>	Lumens	4065.7	0.0	4065.7
	% Fixture	77.8	0.0	77.8
<b>Total</b>	Lumens	5228.0	0.0	5228.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.5	1.0
10°-20°	175.5	3.4
20°-30°	292.7	5.6
30°-40°	425.0	8.1
40°-50°	650.0	12.4
50°-60°	1228.6	23.5
60°-70°	1587.5	30.4
70°-80°	713.6	13.6
80°-90°	101.8	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°	5228.0	100.0
0°-180°	5228.0	100.0

**Coefficient of Utilization**



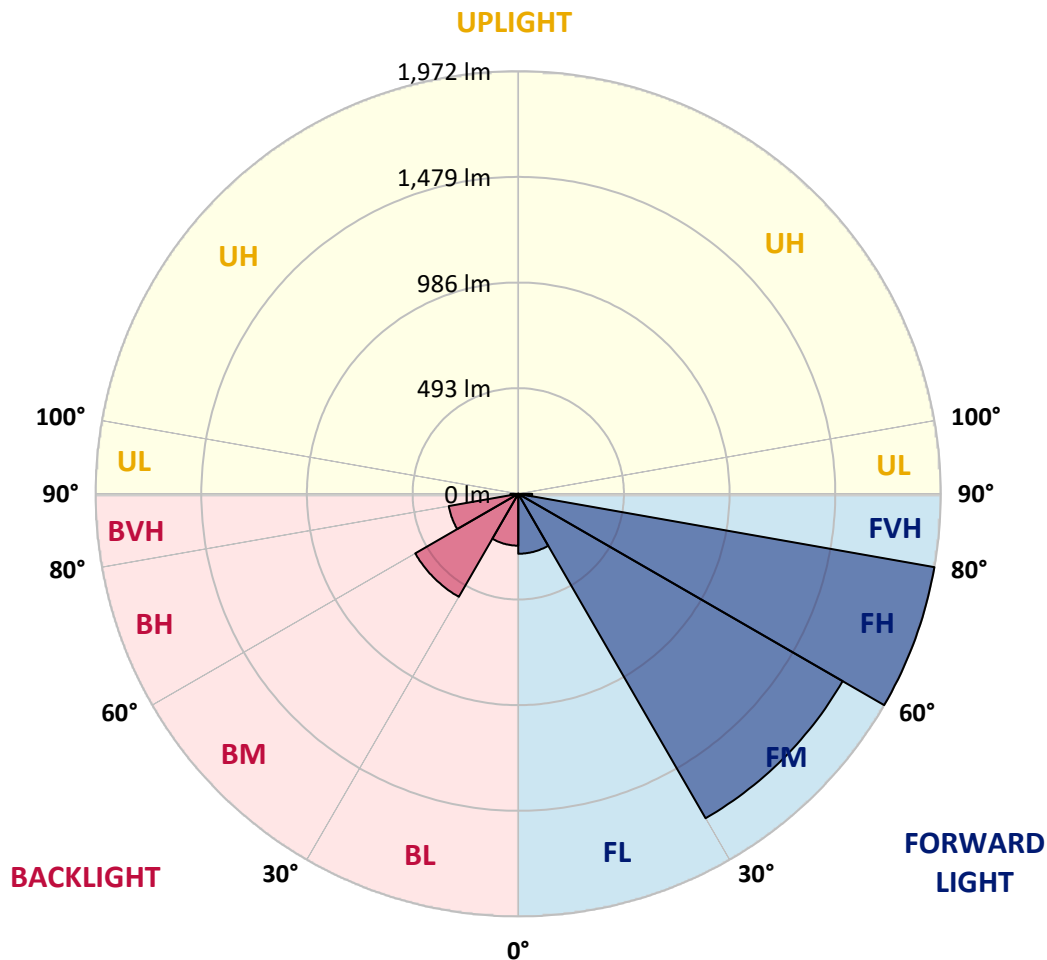
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	279.7	5.4			
FM (30°-60°)	1748.3	33.4			
FH (60°-80°)	1972.2	37.7			G2/5000
FVH (80°-90°)	65.4	1.3			G1/100
BL (0°-30°)	241.9	4.6	B1/500		
BM (30°-60°)	555.2	10.6	B1/1000		
BH (60°-80°)	328.9	6.3	B1/500		G1/500
BVH (80°-90°)	36.4	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°	525.6	525.6	525.6	525.6	525.6	525.6	525.6	525.6	525.6	525.6	525.6
2.5°	555.4	551.1	548.3	546.9	544.0	538.4	538.4	536.9	531.3	528.4	527.0
5°	599.4	596.6	589.5	583.8	575.3	563.9	562.5	554.0	542.6	534.1	528.4
7.5°	642.1	639.2	632.1	623.6	609.4	595.2	590.9	579.6	561.1	548.3	538.4
10°	679.0	674.7	666.2	654.8	639.2	623.6	619.3	606.5	588.1	569.6	552.6
12.5°	703.1	700.3	690.3	676.1	659.1	643.5	640.6	629.3	610.8	590.9	569.6
15°	714.5	713.1	701.7	687.5	670.5	657.7	656.3	646.3	630.7	610.8	586.7
17.5°	711.7	710.2	700.3	686.1	673.3	666.2	666.2	659.1	646.3	629.3	603.7
20°	697.4	697.4	688.9	679.0	671.9	670.5	670.5	669.0	660.5	646.3	620.7
22.5°	683.2	683.2	677.6	670.5	669.0	674.7	676.1	679.0	676.1	664.8	642.1
25°	686.1	684.7	677.6	669.0	670.5	683.2	686.1	693.2	691.8	683.2	663.4
27.5°	717.3	715.9	697.4	680.4	679.0	694.6	697.4	707.4	707.4	700.3	687.5
30°	795.5	798.3	764.2	721.6	700.3	710.2	713.1	724.4	730.1	733.0	723.0
32.5°	914.8	910.5	859.4	789.8	742.9	733.0	737.2	747.2	767.1	772.7	748.6
35°	1035.5	1038.4	988.6	900.6	811.1	774.2	771.3	785.5	815.3	789.8	747.2
37.5°	1147.7	1143.5	1085.2	990.1	900.6	858.0	859.4	853.7	828.1	777.0	757.1
40°	1269.9	1258.5	1210.2	1088.1	974.4	903.4	890.6	842.3	821.0	799.7	796.9
42.5°	1390.6	1392.1	1352.3	1231.5	1062.5	936.1	916.2	866.5	880.7	876.4	873.6
45°	1542.6	1542.6	1502.9	1390.6	1201.7	1058.2	1031.3	971.6	994.3	1011.4	1045.5
47.5°	1681.8	1673.3	1661.9	1566.8	1383.5	1217.3	1206.0	1137.8	1197.5	1250.0	1319.6
50°	1829.6	1818.2	1811.1	1752.9	1622.2	1458.8	1424.7	1353.7	1484.4	1582.4	1711.7
52.5°	2059.7	2039.8	2002.9	1970.2	1919.1	1730.1	1687.5	1635.0	1804.0	1927.6	2191.8
55°	2267.1	2250.0	2214.5	2238.7	2231.6	2059.7	2022.7	1973.0	2156.3	2306.8	2609.4
57.5°	2343.8	2345.2	2393.5	2522.8	2590.9	2491.5	2438.9	2389.2	2544.1	2613.7	2886.4
60°	2379.3	2375.0	2500.0	2710.3	2931.8	2961.7	2894.9	2792.6	2850.9	2855.1	3120.8
62.5°	2302.6	2313.9	2485.8	2788.4	3136.4	3350.9	3340.9	3162.0	3108.0	3048.3	3183.3
65°	2011.4	2027.0	2279.9	2649.2	3169.1	3586.7	3596.6	3387.8	3237.2	3071.1	3005.7
66°	1789.8	1836.7	2117.9	2528.4	3109.4	3610.8	3629.3	3412.0	3231.6	3017.1	2865.1
67.5°	1501.4	1498.6	1812.5	2262.8	2943.2	3589.5	3613.7	3377.9	3154.9	2858.0	2583.8
70°	919.0	947.5	1217.3	1688.9	2436.1	3323.9	3356.6	3137.8	2823.9	2420.5	1910.5
72.5°	471.6	518.5	696.0	1098.0	1768.5	2747.2	2858.0	2635.0	2308.3	1751.4	1166.2
75°	250.0	247.2	328.1	595.2	1129.3	2061.1	2119.3	1975.9	1595.2	1044.0	593.8
77.5°	133.5	140.6	171.9	305.4	620.7	1316.8	1390.6	1274.2	909.1	534.1	284.1
80°	90.9	95.2	116.5	171.9	336.7	714.5	782.7	679.0	475.9	252.8	133.5
82.5°	58.2	61.1	79.5	106.5	201.7	346.6	365.1	348.0	233.0	143.5	81.0
85°	35.5	36.9	48.3	68.2	126.4	140.6	146.3	147.7	130.7	93.8	44.0
87.5°	17.0	18.5	27.0	34.1	59.7	51.1	46.9	48.3	72.4	55.4	19.9
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	525.6	525.6	525.6	525.6	525.6	525.6	525.6	525.6	525.6	525.6	525.6
2.5°	525.6	524.2	521.3	519.9	521.3	521.3	521.3	522.7	525.6	525.6	527.0
5°	525.6	522.7	519.9	519.9	522.7	525.6	528.4	534.1	536.9	538.4	538.4
7.5°	532.7	529.8	527.0	527.0	531.3	536.9	542.6	549.7	556.8	562.5	562.5
10°	546.9	542.6	539.8	541.2	548.3	555.4	562.5	571.0	578.1	585.2	585.2
12.5°	562.5	558.2	554.0	556.8	566.8	575.3	582.4	586.7	593.8	599.4	599.4
15°	578.1	571.0	569.6	575.3	585.2	590.9	593.8	593.8	596.6	602.3	602.3
17.5°	595.2	588.1	586.7	592.3	600.9	600.9	595.2	590.9	589.5	593.8	595.2
20°	612.2	605.1	605.1	609.4	608.0	598.0	588.1	581.0	575.3	579.6	581.0
22.5°	633.5	626.4	623.6	617.9	605.1	585.2	569.6	561.1	556.8	559.7	562.5
25°	654.8	649.2	642.1	622.2	592.3	561.1	541.2	534.1	535.5	541.2	544.0
27.5°	681.8	679.0	661.9	619.3	569.6	527.0	507.1	505.7	511.4	519.9	524.2
30°	714.5	710.2	680.4	610.8	538.4	487.2	473.0	475.9	484.4	491.5	495.7
32.5°	737.2	734.4	688.9	590.9	500.0	451.7	440.3	440.3	444.6	454.5	458.8
35°	744.3	755.7	694.6	561.1	454.5	420.5	409.1	402.0	402.0	410.5	413.4
37.5°	768.5	794.0	697.4	521.3	417.6	392.0	377.8	365.1	360.8	359.4	359.4
40°	823.9	853.7	696.0	470.2	382.1	363.6	346.6	332.4	321.0	305.4	306.8
42.5°	920.5	943.2	691.8	416.2	350.9	338.1	321.0	304.0	285.5	268.5	267.0
45°	1106.5	1072.5	680.4	369.3	322.4	315.3	299.7	279.8	257.1	241.5	241.5
47.5°	1400.6	1306.8	673.3	325.3	296.9	295.5	281.3	259.9	237.2	225.9	224.4
50°	1804.0	1630.7	684.7	294.0	274.2	278.4	267.0	247.2	228.7	218.8	217.3
52.5°	2267.1	1978.7	697.4	274.2	257.1	265.6	259.9	241.5	223.0	214.5	213.1
55°	2625.0	2261.4	679.0	255.7	240.1	252.8	252.8	235.8	220.2	211.6	211.6
57.5°	2876.4	2375.0	615.1	238.6	225.9	241.5	245.7	233.0	218.8	215.9	215.9
60°	2984.4	2369.3	502.8	223.0	215.9	230.1	241.5	230.1	221.6	228.7	230.1
62.5°	2926.2	2245.8	390.6	211.6	208.8	227.3	245.7	241.5	231.5	237.2	240.1
65°	2663.4	2028.4	294.0	201.7	200.3	228.7	257.1	248.6	224.4	225.9	227.3
66°	2515.6	1882.1	269.9	198.9	197.4	230.1	262.8	245.7	218.8	221.6	220.2
67.5°	2200.3	1652.0	237.2	193.2	191.8	230.1	269.9	240.1	211.6	215.9	211.6
70°	1613.7	1169.0	203.1	186.1	183.2	225.9	268.5	228.7	196.0	193.2	186.1
72.5°	936.1	707.4	180.4	177.6	170.5	198.9	251.4	210.2	179.0	170.5	163.4
75°	460.2	359.4	160.5	167.6	149.1	174.7	227.3	194.6	164.8	153.4	149.1
77.5°	211.6	181.8	144.9	153.4	132.1	150.6	207.4	177.6	146.3	129.3	125.0
80°	115.1	113.6	122.2	127.8	110.8	132.1	183.2	154.8	123.6	105.1	99.4
82.5°	71.0	72.4	89.5	98.0	86.6	115.1	161.9	129.3	93.8	73.9	75.3
85°	36.9	41.2	59.7	65.3	56.8	85.2	122.2	86.6	52.6	38.4	38.4
87.5°	12.8	17.0	29.8	35.5	31.3	51.1	76.7	41.2	11.4	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)