

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: P573293

Luminaire Tested: **ARCH-S-PA2-60-727-U-T2R**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573293  
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-PA2-60-727-U-T2R  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7940 lumens  
Efficiency: N/A  
Efficacy: 125.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

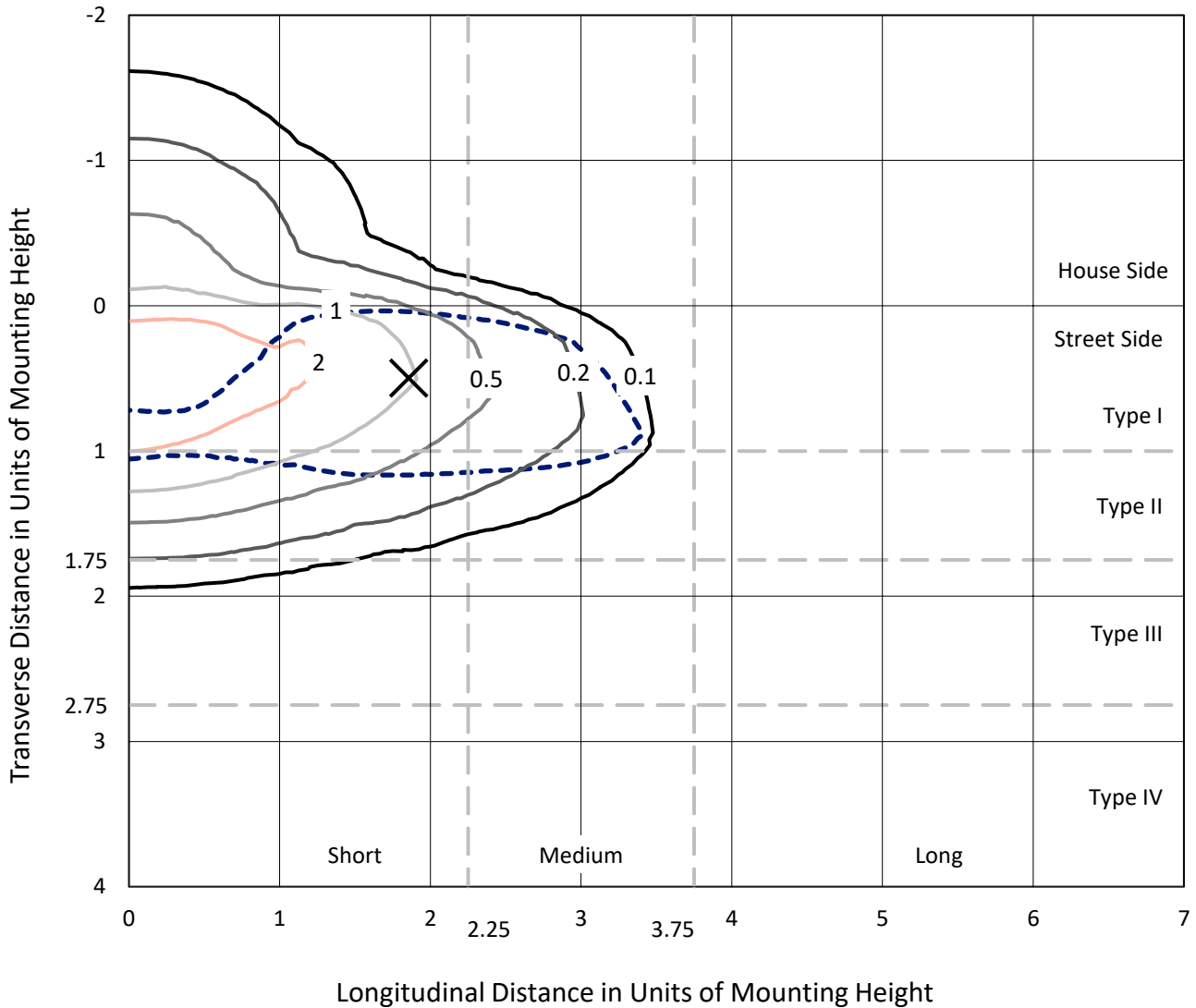
Input Watts (W): 63.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

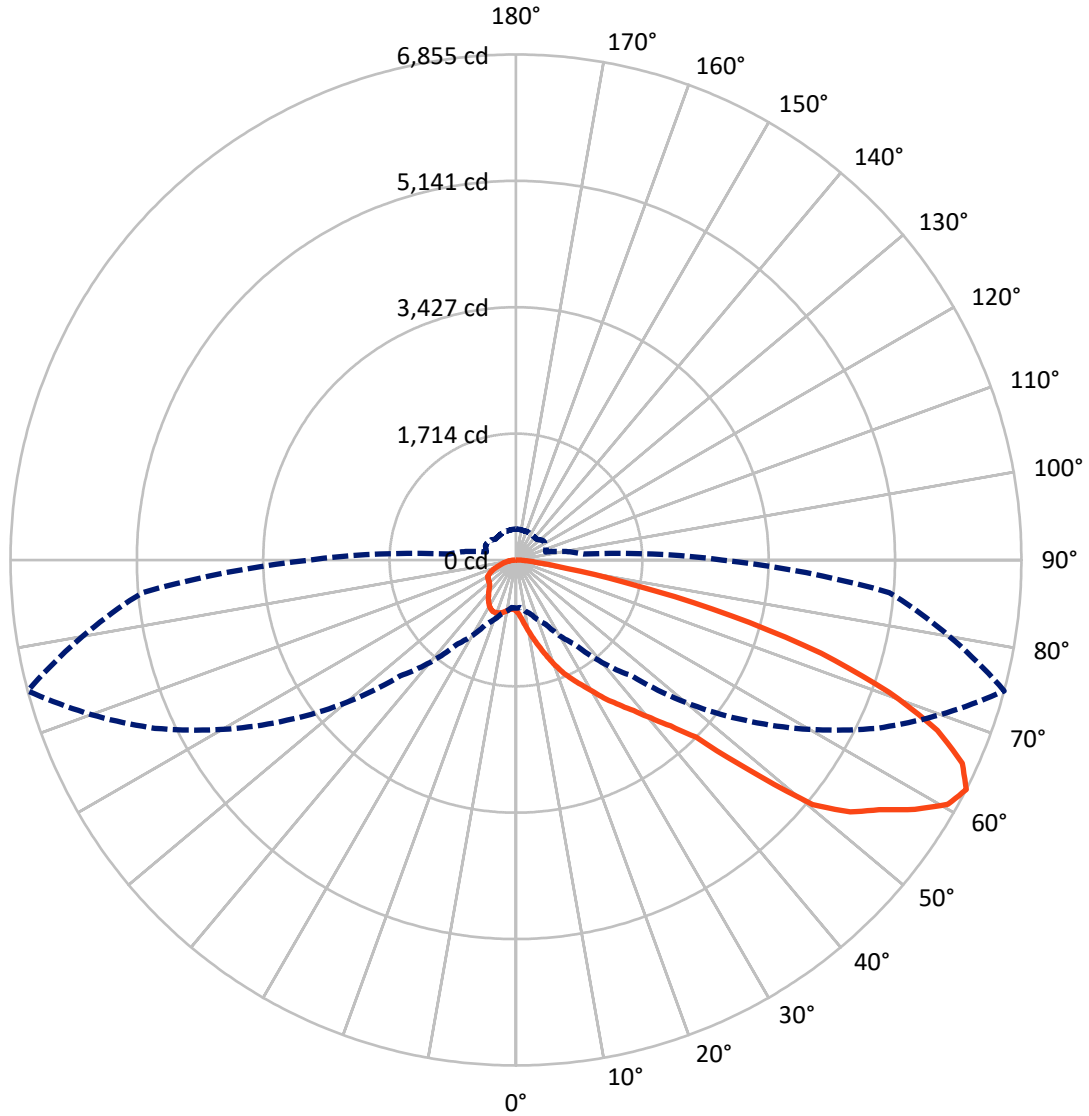
✕ Max cd  
 - - - 1/2 Max cd



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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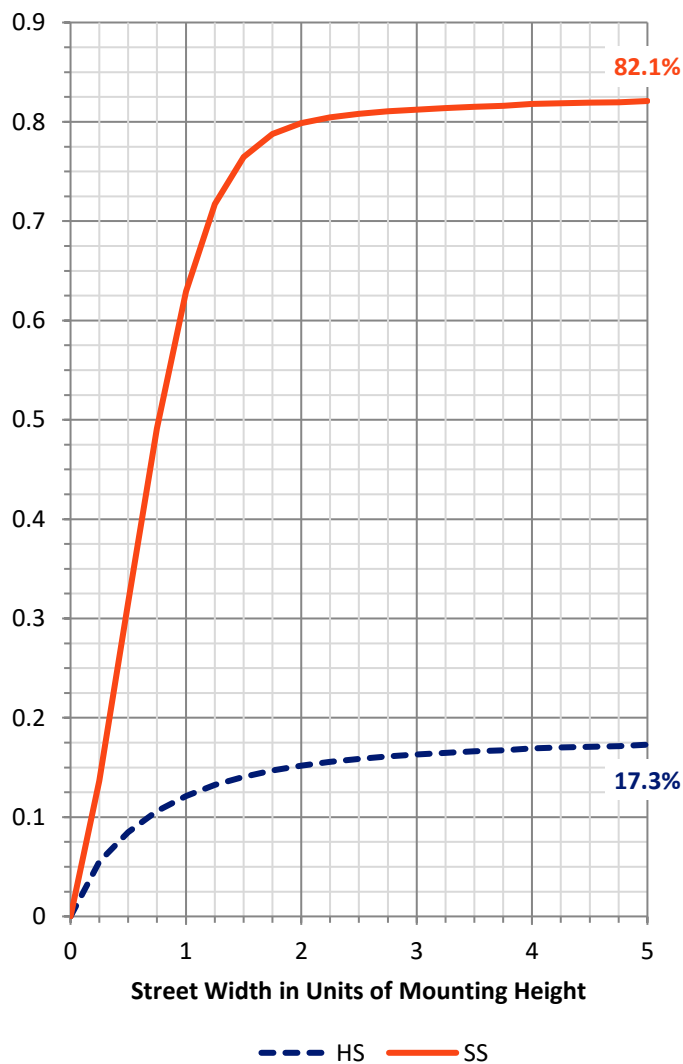
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1400.4	0.0	1400.4
	% Fixture	17.6	0.0	17.6
<b>Street Side</b>	Lumens	6539.6	0.0	6539.6
	% Fixture	82.4	0.0	82.4
<b>Total</b>	Lumens	7940.0	0.0	7940.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.1	1.0
10°-20°	328.6	4.1
20°-30°	650.0	8.2
30°-40°	1083.5	13.6
40°-50°	1598.8	20.1
50°-60°	1921.9	24.2
60°-70°	1493.7	18.8
70°-80°	660.8	8.3
80°-90°	119.6	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°	7940.0	100.0
0°-180°	7940.0	100.0

**Coefficient of Utilization**

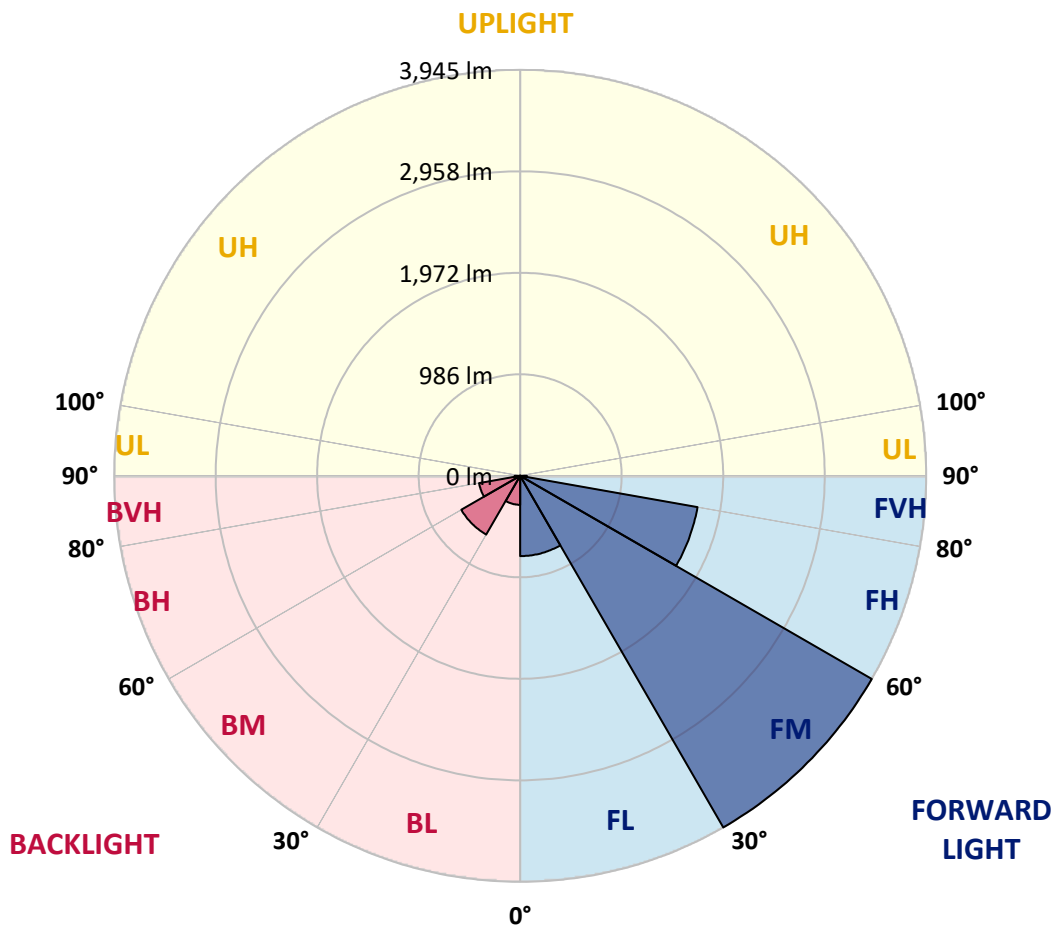


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	779.9	9.8			
FM (30°-60°)	3944.6	49.7			
FH (60°-80°)	1749.3	22.0			G1/1800
FVH (80°-90°)	65.8	0.8			G1/100
BL (0°-30°)	281.8	3.5	B1/500		
BM (30°-60°)	659.6	8.3	B1/1000		
BH (60°-80°)	405.2	5.1	B1/500		G1/500
BVH (80°-90°)	53.9	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°	692.1	692.1	692.1	692.1	692.1	692.1	692.1	692.1	692.1	692.1	692.1
2.5°	885.0	859.2	859.2	831.4	833.5	810.0	784.2	758.5	730.7	709.2	698.5
5°	1157.1	1137.8	1131.4	1099.2	1047.8	989.9	927.8	863.5	797.1	745.7	720.0
7.5°	1412.1	1397.1	1388.5	1352.1	1281.4	1219.2	1120.7	1002.8	889.2	792.8	754.2
10°	1600.6	1589.9	1572.8	1555.6	1504.2	1450.6	1328.5	1161.4	994.2	850.7	792.8
12.5°	1737.8	1722.8	1722.8	1720.6	1686.3	1637.1	1523.5	1343.5	1116.4	914.9	835.7
15°	1829.9	1827.8	1834.2	1847.0	1838.5	1806.3	1692.8	1510.6	1240.6	987.8	885.0
17.5°	1898.5	1889.9	1902.8	1937.0	1962.7	1949.9	1855.6	1671.3	1377.8	1067.1	938.5
20°	1973.5	1956.3	1973.5	2016.3	2048.5	2067.7	2022.7	1825.6	1525.6	1152.8	989.9
22.5°	2117.0	2114.9	2106.3	2119.2	2140.6	2174.9	2149.2	1982.0	1669.2	1238.5	1049.9
25°	2374.2	2350.6	2327.0	2299.2	2275.6	2286.3	2264.9	2127.7	1799.9	1332.8	1101.4
27.5°	2661.3	2635.6	2592.7	2524.1	2459.9	2421.3	2376.3	2254.2	1926.3	1418.5	1150.6
30°	2924.8	2916.3	2852.0	2777.0	2665.6	2594.9	2509.1	2399.9	2078.5	1512.8	1202.1
32.5°	3171.3	3154.1	3089.8	3010.5	2879.8	2800.6	2682.7	2558.4	2252.0	1628.5	1255.6
35°	3383.4	3366.2	3291.2	3190.5	3077.0	3008.4	2873.4	2699.8	2410.6	1729.2	1300.6
37.5°	3544.1	3524.8	3454.1	3355.5	3254.8	3222.7	3107.0	2879.8	2590.6	1855.6	1356.4
40°	3634.1	3610.5	3563.4	3494.8	3411.2	3396.2	3347.0	3102.7	2817.7	2009.9	1437.8
42.5°	3644.8	3623.4	3597.7	3591.2	3584.8	3597.7	3621.2	3355.5	3077.0	2215.6	1557.8
45°	3550.5	3537.7	3539.8	3612.7	3713.4	3831.2	3972.6	3728.4	3426.2	2607.7	1827.8
47.5°	3349.1	3342.7	3389.8	3511.9	3736.9	4004.8	4405.5	4366.9	4253.3	3239.8	2174.9
50°	3023.4	3012.7	3113.4	3306.2	3627.7	4062.6	4696.9	5119.0	5213.3	3730.5	2402.0
52.5°	2556.3	2569.1	2725.6	2989.1	3377.0	4000.5	4816.9	5427.6	5676.1	4092.6	2575.6
55°	2078.5	2059.2	2200.6	2526.3	3006.3	3773.4	4840.4	5605.4	5976.1	4426.9	2744.8
57.5°	1514.9	1562.1	1712.0	2007.7	2528.4	3362.0	4703.3	5727.5	6378.9	4761.2	2901.3
60°	1026.4	1026.4	1159.2	1454.9	1954.2	2862.7	4336.9	5682.5	6730.3	5022.6	2935.5
62.5°	653.5	647.1	754.2	964.2	1399.2	2224.2	3788.4	5399.7	6854.6	5084.7	2792.0
65°	413.5	422.1	460.7	589.3	895.7	1579.2	3040.5	4836.2	6651.1	4941.2	2541.3
67.5°	332.1	334.3	353.6	407.1	550.7	1013.5	2254.2	4058.3	6164.7	4579.0	2247.7
70°	293.6	297.8	302.1	321.4	377.1	640.7	1480.6	3267.7	5367.6	3949.1	1932.7
72.5°	267.8	272.1	276.4	280.7	310.7	417.8	874.2	2477.0	4330.5	3034.1	1474.2
75°	246.4	250.7	250.7	252.8	270.0	310.7	480.0	1707.8	3014.8	1887.8	919.2
77.5°	220.7	222.8	222.8	227.1	244.3	244.3	297.8	1056.4	1673.5	855.0	465.0
80°	186.4	190.7	190.7	197.1	214.3	188.6	199.3	540.0	694.2	351.4	207.8
82.5°	137.1	145.7	150.0	160.7	171.4	143.6	143.6	272.1	293.6	156.4	111.4
85°	75.0	77.1	111.4	120.0	126.4	85.7	96.4	135.0	145.7	68.6	55.7
87.5°	21.4	23.6	53.6	66.4	60.0	36.4	40.7	51.4	51.4	19.3	15.0
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°	692.1	692.1	692.1	692.1	692.1	692.1	692.1	692.1	692.1	692.1
2.5°	690.0	672.8	657.8	647.1	636.4	630.0	627.8	623.5	623.5	625.7
5°	698.5	668.5	645.0	632.1	623.5	619.3	617.1	617.1	619.3	619.3
7.5°	720.0	675.0	653.5	642.8	634.3	630.0	630.0	627.8	630.0	630.0
10°	750.0	694.2	670.7	657.8	651.4	645.0	642.8	640.7	640.7	640.7
12.5°	782.1	715.7	690.0	675.0	664.2	655.7	651.4	647.1	645.0	645.0
15°	812.1	737.1	702.8	685.7	670.7	657.8	649.2	642.8	640.7	640.7
17.5°	844.2	752.1	711.4	687.8	668.5	651.4	640.7	632.1	627.8	627.8
20°	878.5	762.8	711.4	681.4	655.7	638.5	625.7	617.1	608.5	608.5
22.5°	906.4	767.1	702.8	666.4	640.7	619.3	606.4	595.7	589.3	589.3
25°	929.9	762.8	683.5	642.8	612.8	593.5	580.7	572.1	565.7	565.7
27.5°	944.9	745.7	660.0	617.1	589.3	570.0	561.4	552.8	548.5	548.5
30°	953.5	724.2	630.0	589.3	561.4	550.7	546.4	537.8	531.4	529.3
32.5°	957.8	692.1	600.0	561.4	542.1	537.8	537.8	527.1	518.5	516.4
35°	953.5	657.8	570.0	537.8	531.4	533.5	529.3	516.4	505.7	501.4
37.5°	947.1	617.1	537.8	520.7	527.1	531.4	518.5	501.4	484.3	480.0
40°	942.8	580.7	512.1	503.5	522.8	525.0	501.4	469.3	456.4	452.1
42.5°	964.2	544.3	488.5	490.7	512.1	514.3	471.4	456.4	447.8	445.7
45°	1037.1	512.1	469.3	482.1	499.3	490.7	456.4	454.3	447.8	445.7
47.5°	1092.8	488.5	460.7	475.7	488.5	458.5	454.3	452.1	445.7	443.5
50°	1112.1	473.5	458.5	471.4	473.5	443.5	450.0	450.0	443.5	441.4
52.5°	1114.2	465.0	462.8	469.3	450.0	437.1	445.7	445.7	439.3	437.1
55°	1122.8	460.7	465.0	469.3	424.3	428.5	437.1	439.3	432.8	430.7
57.5°	1105.7	454.3	469.3	471.4	413.5	420.0	428.5	428.5	428.5	428.5
60°	1039.2	441.4	467.1	467.1	405.0	409.3	417.8	422.1	424.3	424.3
62.5°	917.1	415.7	454.3	454.3	396.4	400.7	411.4	411.4	417.8	417.8
65°	762.8	379.3	428.5	426.4	387.8	392.1	405.0	400.7	411.4	413.5
67.5°	636.4	334.3	390.0	394.3	379.3	390.0	398.5	383.5	405.0	405.0
70°	507.8	280.7	338.6	357.8	364.3	392.1	385.7	362.1	390.0	383.5
72.5°	394.3	237.8	278.6	312.8	347.1	390.0	357.8	332.1	349.3	338.6
75°	287.1	197.1	229.3	259.3	323.6	383.5	330.0	291.4	291.4	287.1
77.5°	201.4	160.7	184.3	205.7	300.0	366.4	295.7	250.7	240.0	237.8
80°	137.1	126.4	145.7	158.6	265.7	332.1	255.0	207.8	188.6	184.3
82.5°	90.0	90.0	98.6	107.1	205.7	276.4	199.3	154.3	199.3	190.7
85°	51.4	53.6	53.6	62.1	113.6	195.0	141.4	154.3	92.1	85.7
87.5°	17.1	17.1	17.1	17.1	23.6	79.3	60.0	55.7	21.4	19.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)