

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: P348981

Luminaire Tested: **ARCH-N-PA1-10-730-U-T2U-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348981  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1908-474-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-N-PA1-10-730-U-T2U-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 270mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1464 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B0 - U0 - G0

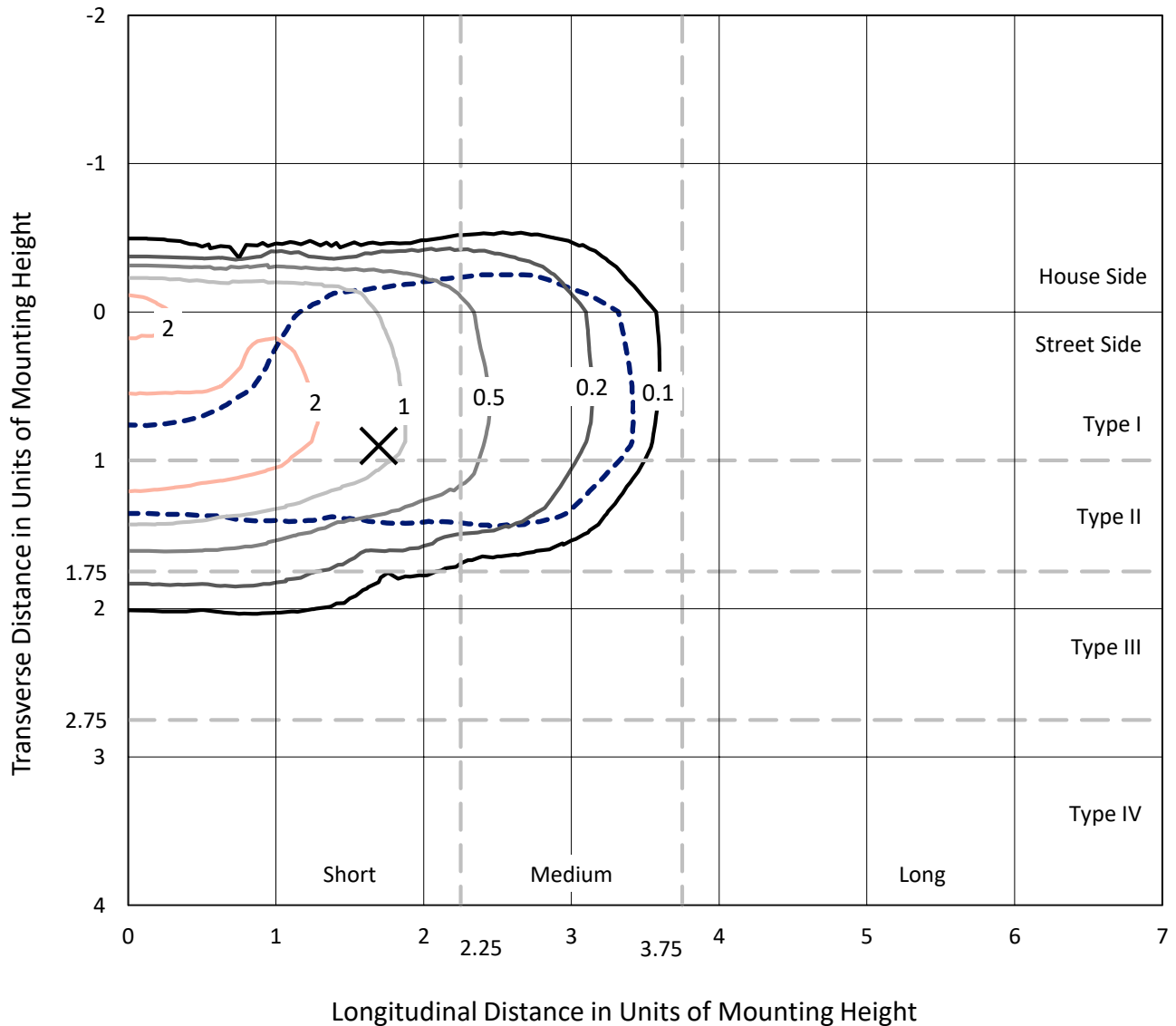
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

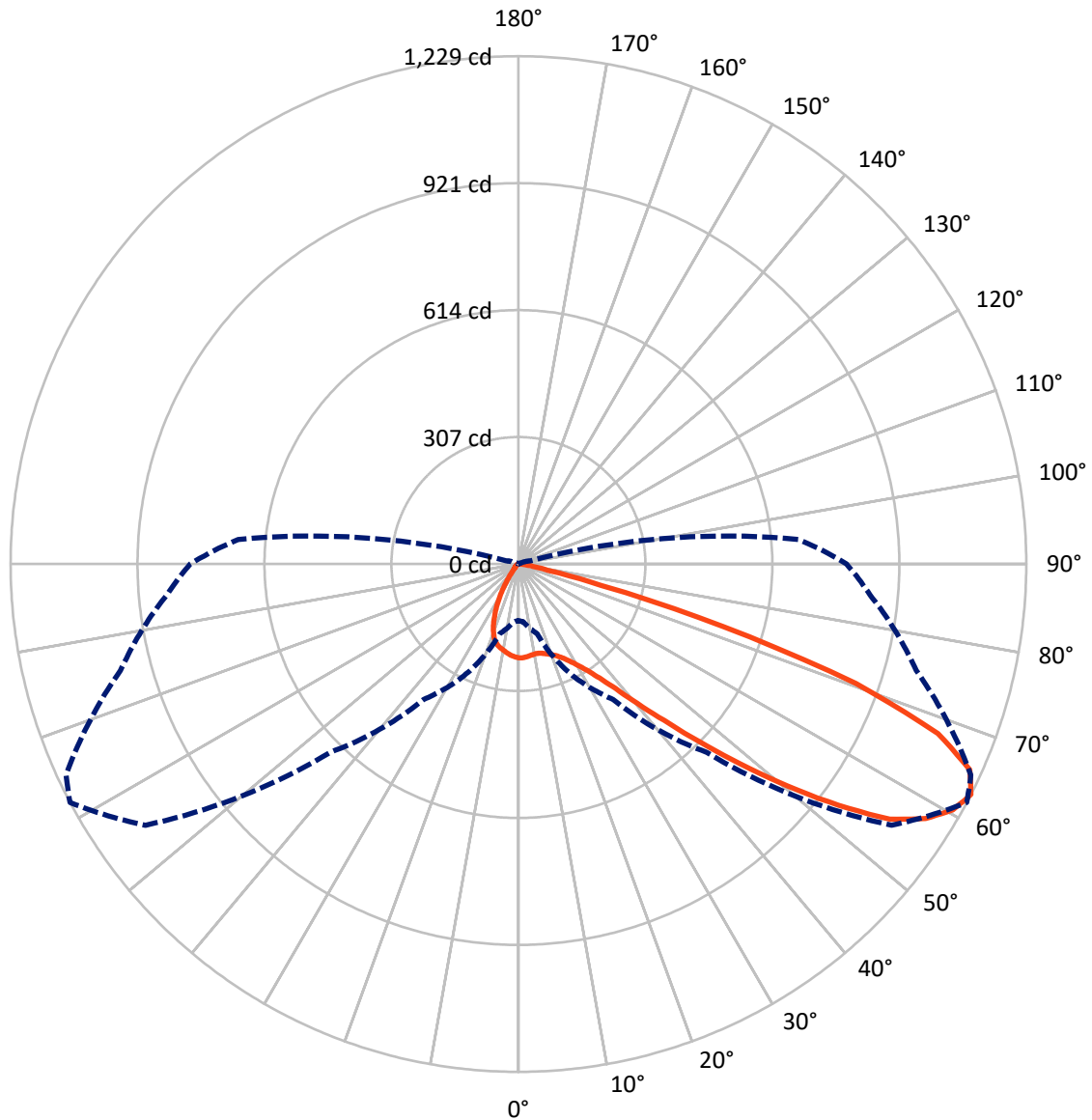
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.2 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical



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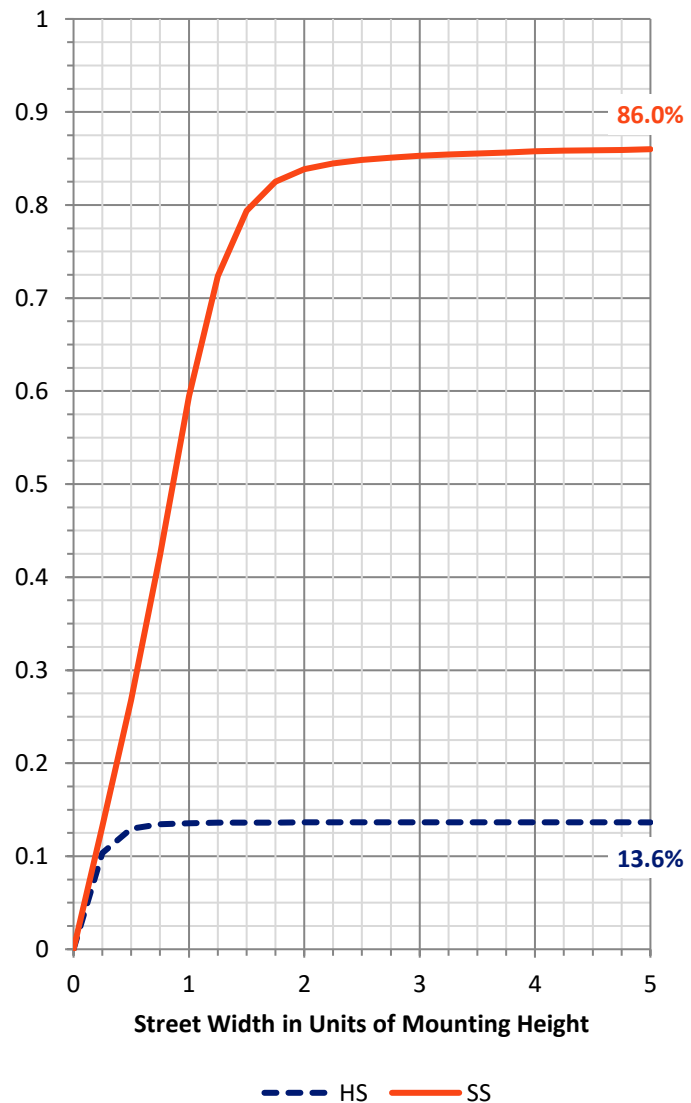
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	202.1	0.0	202.1
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	1261.9	0.0	1261.9
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	1464.0	0.0	1464.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.7	1.4
10°-20°	52.0	3.6
20°-30°	77.6	5.3
30°-40°	147.9	10.1
40°-50°	308.5	21.1
50°-60°	409.8	28.0
60°-70°	319.5	21.8
70°-80°	120.8	8.2
80°-90°	7.2	0.5
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°	1464.0	100.0
0°-180°	1464.0	100.0

**Coefficient of Utilization**



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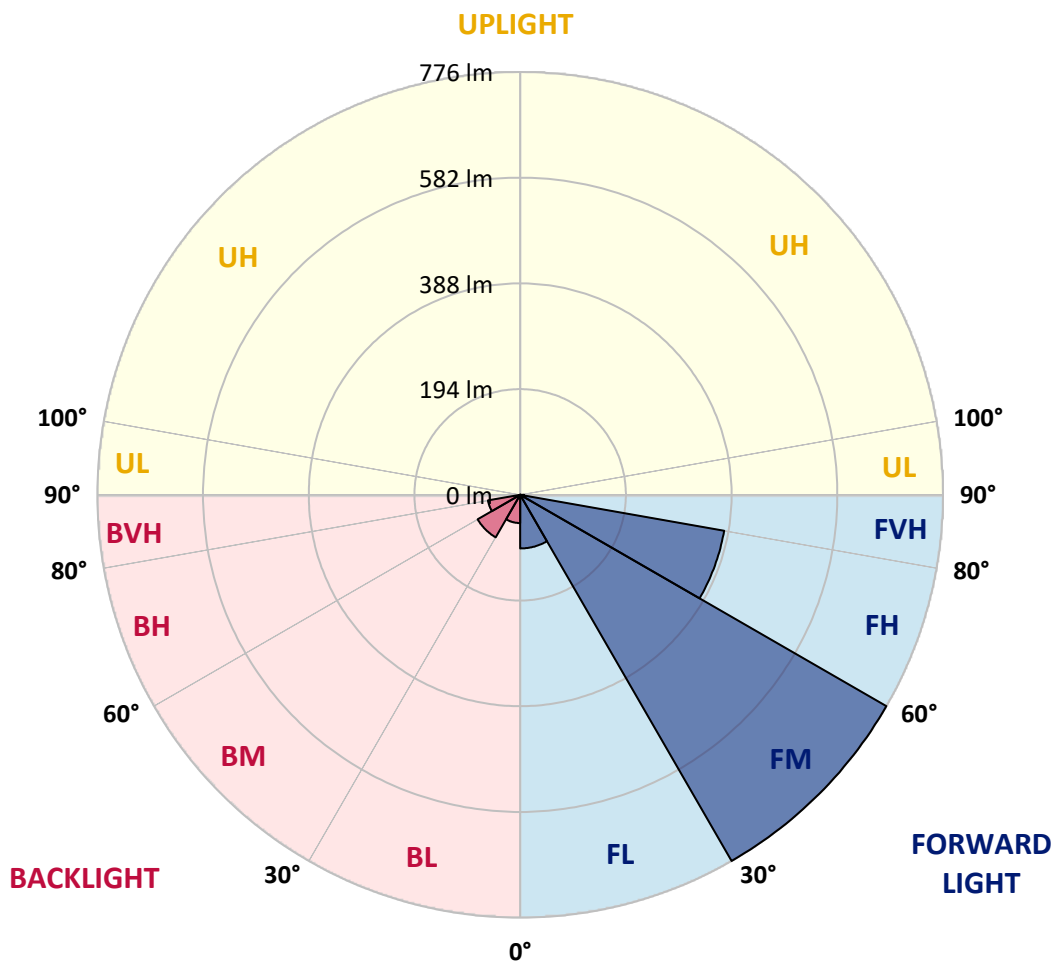
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	98.5	6.7			
FM	(30°-60°)	776.2	53.0			
FH	(60°-80°)	380.3	26.0			G0/660
FVH	(80°-90°)	6.9	0.5			G0/10
BL	(0°-30°)	51.8	3.5	B0/110		
BM	(30°-60°)	90.0	6.1	B0/220		
BH	(60°-80°)	60.0	4.1	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	227.4	227.4	227.4	227.4	227.4	227.4	227.4	227.4	227.4	227.4	227.4
2.5°	226.7	226.3	227.3	227.3	227.1	227.4	227.1	226.9	226.7	226.3	225.9
5°	220.7	220.7	222.1	222.7	223.2	224.4	224.8	225.1	225.0	225.3	225.5
7.5°	213.9	214.2	215.8	216.5	217.5	219.8	221.1	222.7	222.9	224.2	225.0
10°	208.1	208.5	210.0	211.0	212.3	215.4	218.3	220.9	221.3	223.8	224.4
12.5°	204.3	204.7	206.2	207.5	210.4	214.2	218.3	221.3	222.3	225.3	225.3
15°	202.8	203.2	205.1	207.4	211.2	216.2	221.1	224.4	226.3	228.8	227.6
17.5°	202.2	203.0	206.2	209.7	213.9	219.2	225.3	228.8	230.7	233.4	230.9
20°	203.9	204.9	209.1	213.9	218.3	223.8	230.5	234.3	236.2	238.0	233.2
22.5°	210.0	211.6	215.2	220.6	224.0	230.7	237.4	241.8	243.9	243.7	237.4
25°	224.8	226.7	228.4	231.3	232.8	240.8	247.9	252.3	253.8	253.3	246.0
27.5°	259.6	262.1	255.9	249.6	246.2	253.7	261.5	266.1	267.4	266.3	255.2
30°	318.3	318.5	304.5	284.6	269.9	269.1	278.7	284.8	284.8	282.5	268.2
32.5°	403.8	397.7	380.1	344.9	311.6	294.2	301.5	307.4	307.4	304.5	288.1
35°	511.3	506.7	477.7	435.4	376.1	334.4	332.8	338.6	338.8	338.0	319.3
37.5°	620.7	609.5	585.2	534.5	464.8	396.2	377.8	381.8	384.7	384.3	361.0
40°	722.5	711.2	690.7	642.0	573.9	487.2	443.2	443.2	443.4	441.5	413.4
42.5°	802.5	797.3	782.0	748.1	695.5	630.5	531.4	516.9	513.8	511.9	475.0
45°	854.3	848.9	840.7	833.6	816.6	793.3	649.8	611.7	606.8	588.0	543.1
47.5°	857.2	848.9	854.5	881.3	919.7	931.8	796.0	722.3	709.1	675.3	611.4
50°	793.3	794.0	815.7	880.7	984.6	1053.2	950.9	844.0	823.1	755.4	671.6
52.5°	675.8	683.5	717.0	817.0	987.6	1130.9	1085.8	969.5	928.1	827.3	714.1
55°	529.1	536.0	590.7	699.0	913.2	1142.0	1183.9	1089.6	1034.9	877.4	752.2
57.5°	374.2	387.2	455.1	554.6	771.3	1057.3	1210.7	1161.5	1108.5	926.2	787.9
60°	227.4	233.9	304.5	420.3	581.3	879.9	1179.3	1207.4	1164.6	968.5	821.4
62.5°	136.8	140.6	174.5	289.4	400.0	644.3	1101.6	1228.5	1207.4	996.6	853.5
65°	80.9	83.4	99.3	174.8	266.5	395.2	933.9	1199.6	1216.6	1020.9	872.3
67.5°	58.3	59.1	64.8	94.1	178.9	211.8	649.4	1094.4	1158.1	1029.0	861.2
70°	50.3	51.3	56.8	66.2	126.6	124.9	338.0	866.2	981.7	987.1	814.3
72.5°	38.1	39.8	49.0	62.2	90.9	88.8	127.4	516.5	666.5	810.3	702.0
75°	25.8	26.8	36.3	52.8	71.0	66.2	66.8	207.4	326.0	508.1	482.4
77.5°	16.3	17.0	22.2	37.9	60.8	46.7	47.2	73.6	117.6	215.4	206.8
80°	11.1	11.5	13.4	24.5	41.1	40.6	30.4	38.4	43.8	66.4	44.6
82.5°	6.7	6.7	8.8	14.5	24.9	32.1	19.1	21.2	23.3	24.7	10.1
85°	2.3	2.5	5.4	9.0	15.3	16.1	10.9	12.6	13.2	14.3	4.8
87.5°	1.0	0.8	2.9	5.0	6.5	7.5	6.3	5.7	6.3	8.4	2.1
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	227.4	227.4	227.4	227.4	227.4	227.4	227.4	227.4	227.4	227.4	227.4
2.5°	226.1	225.3	225.3	225.1	224.0	223.4	222.9	221.3	222.3	221.1	220.4
5°	225.0	224.4	223.4	222.5	219.8	217.5	216.5	214.6	214.4	212.9	212.1
7.5°	224.8	223.4	221.9	218.6	214.6	211.0	207.7	204.5	203.2	201.4	200.5
10°	223.8	222.1	219.2	214.1	208.1	202.4	195.1	186.1	179.4	175.6	175.0
12.5°	224.0	222.1	217.7	210.0	202.2	189.6	170.1	149.6	132.8	125.7	124.5
15°	225.5	223.4	216.7	206.4	193.0	165.3	129.5	98.1	76.3	68.5	66.8
17.5°	227.4	223.8	214.6	201.2	175.4	128.2	81.5	51.5	39.2	34.8	34.0
20°	228.6	223.6	211.2	193.4	148.6	85.7	44.4	30.2	26.6	25.6	25.3
22.5°	231.5	224.2	208.3	181.2	115.0	51.6	28.1	23.5	21.4	20.3	20.1
25°	237.4	228.0	208.5	165.3	80.5	31.2	22.8	19.1	17.2	16.1	15.7
27.5°	246.0	234.9	212.1	145.6	49.7	23.5	18.9	15.5	13.4	12.4	12.2
30°	256.9	243.3	216.3	119.9	31.0	19.7	15.3	12.1	10.5	9.9	9.8
32.5°	274.1	257.9	220.0	89.7	21.4	16.3	12.1	9.6	8.6	8.0	8.0
35°	302.6	282.9	225.9	60.1	17.0	13.0	9.8	7.8	7.1	6.7	6.7
37.5°	342.8	318.7	228.8	37.3	14.0	10.1	7.8	6.5	5.9	5.5	5.5
40°	391.8	362.1	224.8	23.1	11.7	8.2	6.5	5.5	5.0	4.8	4.8
42.5°	448.2	412.0	212.1	16.5	9.8	6.7	5.5	4.8	4.4	4.2	4.2
45°	511.3	466.7	189.4	13.8	8.2	5.7	4.8	4.0	3.8	3.6	3.6
47.5°	574.3	522.2	159.9	11.9	6.9	4.8	4.0	3.4	3.3	3.1	3.1
50°	629.2	570.8	128.7	10.3	5.7	4.2	3.4	2.9	2.7	2.5	2.5
52.5°	660.5	599.7	99.7	8.6	5.0	3.6	2.7	2.3	2.1	1.9	1.9
55°	694.4	623.8	74.4	7.3	4.0	3.1	2.1	1.7	1.5	1.3	1.3
57.5°	725.9	645.4	55.3	5.9	3.4	2.3	1.7	1.3	1.1	1.0	1.0
60°	756.6	663.8	40.9	4.8	2.9	1.9	1.3	1.0	0.8	0.6	0.6
62.5°	793.9	680.6	30.0	3.8	2.5	1.3	1.0	0.6	0.4	0.2	0.2
65°	821.6	689.2	22.6	2.9	2.1	1.0	0.6	0.4	0.0	0.0	0.0
67.5°	821.4	672.6	16.5	2.1	1.5	0.8	0.4	0.0	0.0	0.0	0.0
70°	783.0	622.1	11.5	1.7	1.1	0.6	0.2	0.0	0.0	0.0	0.0
72.5°	671.4	492.0	7.5	1.1	1.0	0.4	0.2	0.0	0.0	0.0	0.0
75°	453.2	249.8	4.4	1.0	0.8	0.4	0.2	0.0	0.0	0.0	0.0
77.5°	193.8	98.1	2.3	0.6	0.6	0.2	0.0	0.0	0.0	0.0	0.0
80°	40.6	23.7	1.0	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	6.9	3.4	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.7	1.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.4	0.2	0.2	0.0	0.0	0.0	0.0	0.0	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)