

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: P348618

Luminaire Tested: **ARCH-N-PA1-19-827-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348618  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-N-PA1-19-827-U-T3  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 2700K, 370mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2214 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

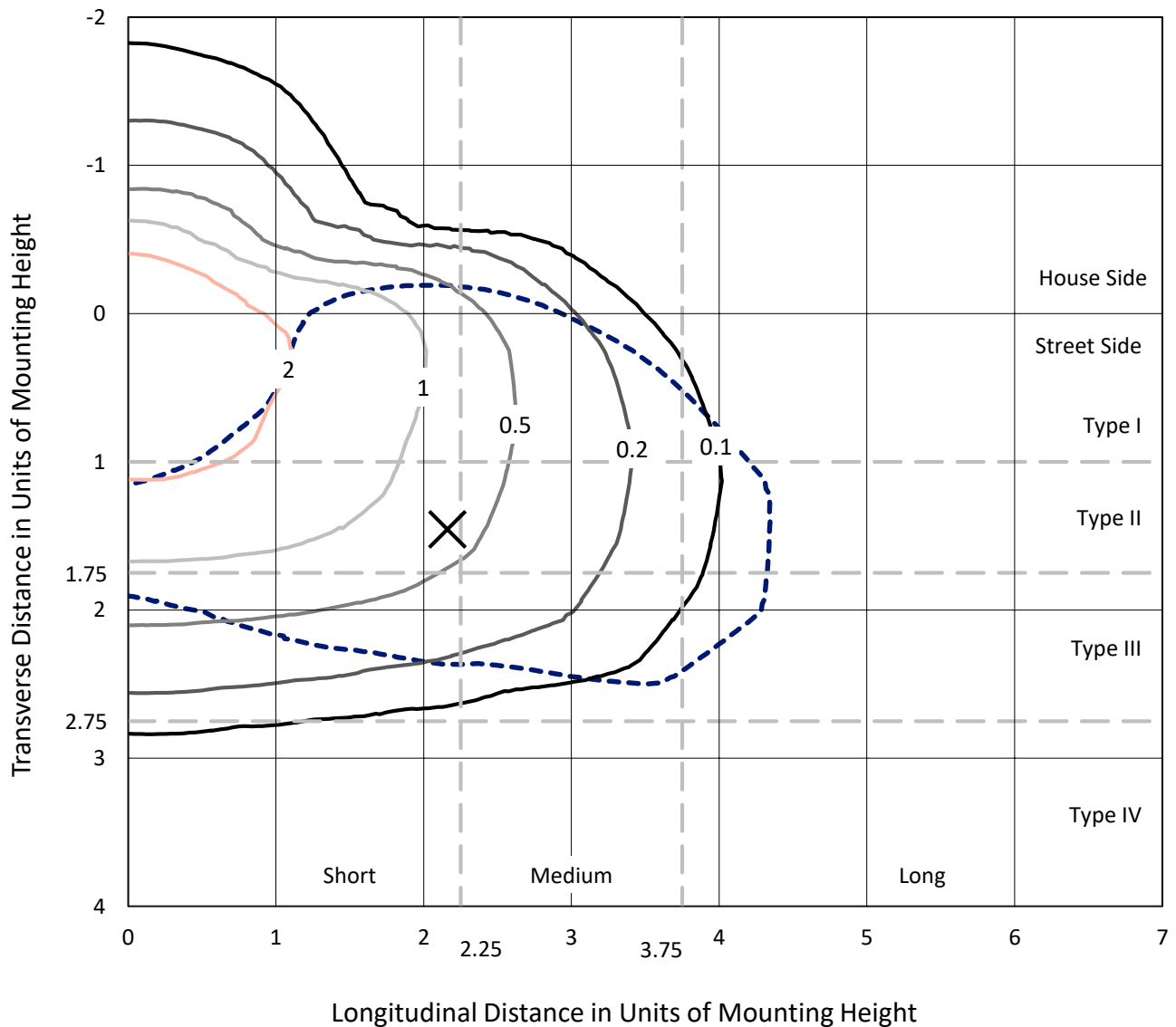
Input Watts (W): 19  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

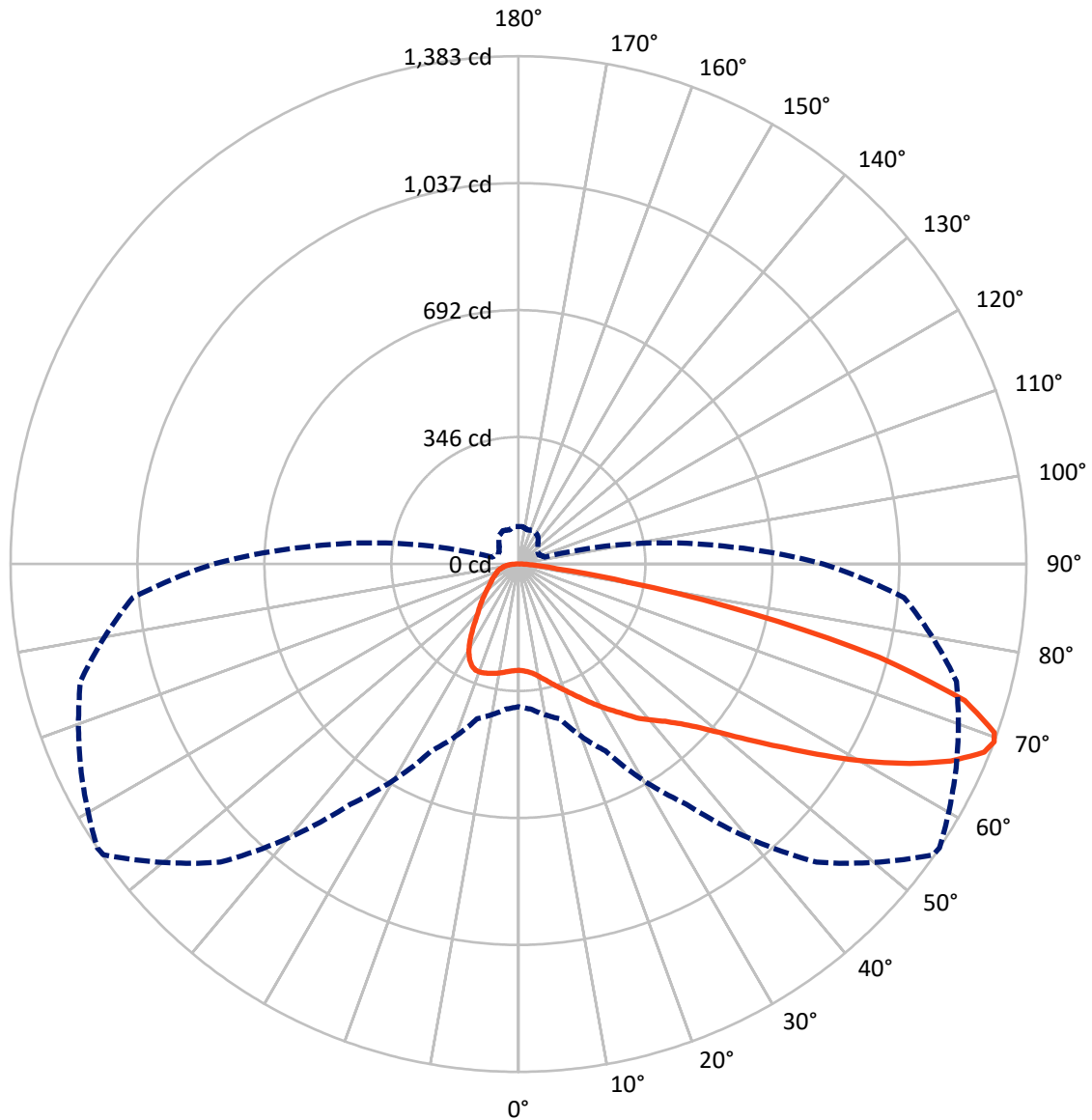


Based on 10 foot mounting height. Maximum calculated value = 3.1 fc  
 Type III - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical



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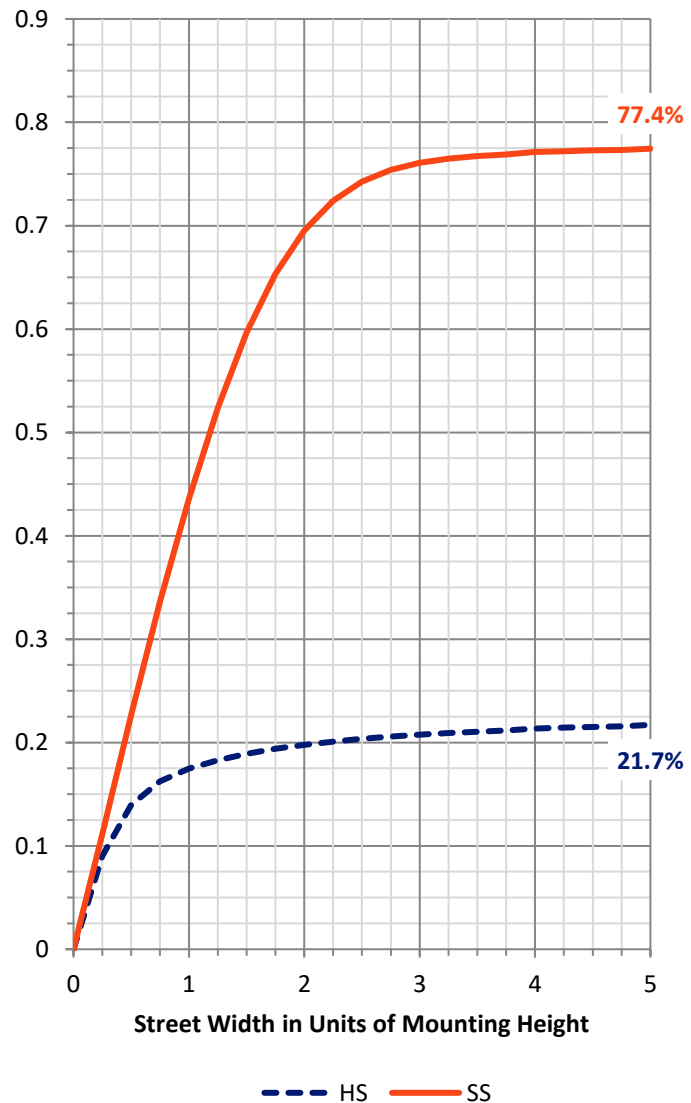
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	493.1	0.0	493.1
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	1720.9	0.0	1720.9
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	2214.0	0.0	2214.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.4	1.3
10°-20°	91.4	4.1
20°-30°	159.6	7.2
30°-40°	229.2	10.4
40°-50°	317.2	14.3
50°-60°	464.8	21.0
60°-70°	566.7	25.6
70°-80°	313.3	14.2
80°-90°	43.4	2.0
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°	2214.0	100.0
0°-180°	2214.0	100.0

**Coefficient of Utilization**



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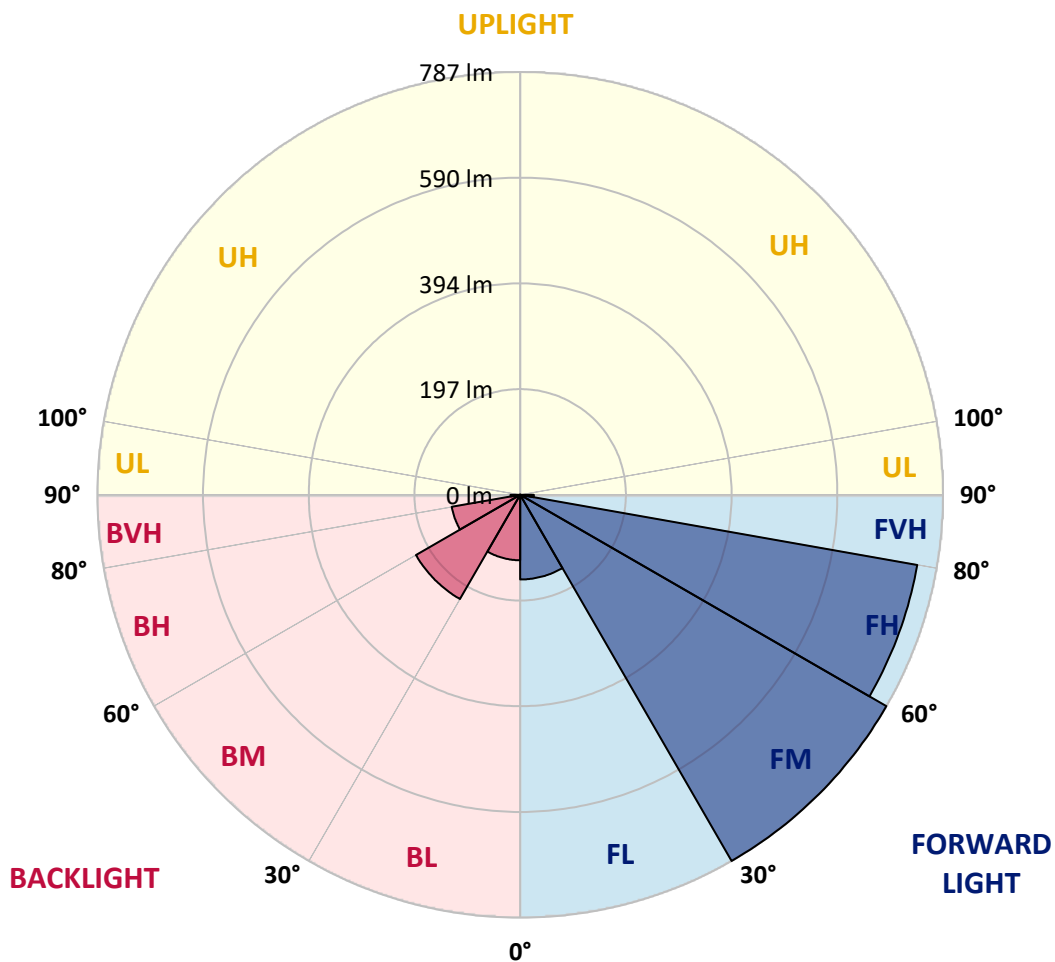
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	157.6	7.1			
FM (30°-60°)	787.2	35.6			
FH (60°-80°)	750.7	33.9			G1/1800
FVH (80°-90°)	25.6	1.2			G1/100
BL (0°-30°)	121.8	5.5	B1/500		
BM (30°-60°)	224.1	10.1	B1/1000		
BH (60°-80°)	129.3	5.8	B1/500		G1/500
BVH (80°-90°)	17.8	0.8			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	289.4	289.4	289.4	289.4	289.4	289.4	289.4	289.4	289.4	289.4	289.4
2.5°	291.3	291.6	291.4	292.0	291.3	291.7	291.4	291.4	291.1	290.4	289.7
5°	295.9	296.5	296.1	296.7	295.9	296.0	295.3	295.3	294.6	293.2	291.7
7.5°	303.0	303.7	303.4	304.0	302.9	302.9	302.0	301.9	300.5	298.1	296.4
10°	311.6	312.5	312.2	313.1	312.2	312.5	311.6	311.6	309.7	306.4	304.2
12.5°	324.0	325.1	324.3	324.2	323.8	324.5	323.7	323.5	321.9	317.3	314.2
15°	340.6	341.8	340.1	339.9	337.8	337.6	337.6	337.3	336.3	330.8	325.8
17.5°	359.8	360.2	358.6	356.2	353.4	351.7	351.5	352.1	352.1	345.7	337.7
20°	378.5	379.2	378.0	375.3	371.7	369.2	367.3	368.5	368.5	360.8	349.5
22.5°	399.0	400.6	398.7	395.2	391.1	388.2	385.0	386.1	386.2	376.8	361.1
25°	425.4	424.0	422.8	417.9	412.0	409.0	406.1	407.1	406.8	393.9	373.0
27.5°	448.9	449.2	447.6	442.4	435.6	429.0	428.9	429.6	428.4	411.8	384.3
30°	476.1	476.2	474.1	469.4	462.0	453.5	451.5	452.7	450.2	428.7	396.2
32.5°	503.2	503.9	501.6	495.8	489.9	479.6	475.6	476.4	470.3	446.0	408.5
35°	526.9	527.9	527.2	523.4	516.9	508.0	503.3	502.9	495.3	467.2	424.8
37.5°	551.1	552.0	551.2	548.0	545.4	536.0	533.5	533.5	520.4	488.9	445.4
40°	575.9	577.4	576.5	572.0	569.8	565.5	559.5	558.1	543.9	514.9	479.1
42.5°	599.0	601.0	605.0	602.4	597.9	598.5	586.4	585.6	575.2	553.3	521.5
45°	631.8	634.7	641.4	639.5	638.5	635.2	620.8	620.1	616.1	605.1	574.0
47.5°	667.6	671.6	683.7	684.1	693.9	687.6	668.0	665.6	666.5	667.0	638.2
50°	700.5	704.9	724.8	734.2	757.4	758.7	727.4	725.3	728.8	739.4	712.9
52.5°	726.9	732.4	757.2	786.2	825.9	837.2	800.5	798.9	801.6	819.8	797.4
55°	746.2	752.1	779.2	832.0	895.4	915.3	884.7	883.2	884.9	908.0	889.3
57.5°	750.7	752.1	791.4	862.8	954.1	1001.9	987.8	984.7	976.5	996.6	990.8
60°	729.5	735.3	781.3	873.6	999.5	1087.2	1095.5	1091.7	1068.6	1085.0	1080.3
62.5°	686.7	697.0	743.7	857.1	1017.2	1156.9	1201.1	1196.5	1156.7	1167.4	1144.7
65°	616.6	621.1	670.1	800.3	994.6	1201.6	1295.3	1293.0	1242.9	1226.2	1156.6
67.5°	491.4	499.7	541.4	681.6	902.3	1196.3	1368.1	1367.9	1299.2	1248.0	1114.4
69°	388.2	396.8	436.5	561.4	798.4	1148.2	1380.3	1383.0	1315.1	1234.7	1054.1
70°	309.5	319.5	346.7	472.9	706.2	1084.7	1370.2	1375.0	1312.0	1212.9	998.5
72.5°	131.7	139.8	159.2	243.8	430.4	810.0	1252.8	1271.0	1241.3	1110.0	825.2
75°	57.5	60.0	68.8	99.4	191.1	440.8	981.5	1015.0	1061.4	938.3	614.7
77.5°	42.1	43.2	48.0	58.3	85.7	166.5	631.1	650.7	765.5	682.8	377.1
80°	32.6	33.3	37.1	42.9	56.0	67.3	287.8	304.6	430.4	350.7	157.0
82.5°	25.9	26.5	29.1	31.6	38.7	40.8	95.6	106.0	158.9	96.9	41.6
85°	24.1	24.7	25.6	23.0	24.8	23.9	41.3	43.2	48.0	38.1	17.4
87.5°	10.9	12.9	25.4	17.9	13.2	10.5	16.9	17.7	19.9	20.0	7.7
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°	289.4	289.4	289.4	289.4	289.4	289.4	289.4	289.4	289.4	289.4	289.4
2.5°	290.1	289.9	290.3	289.4	290.5	290.4	290.1	290.2	291.0	290.9	291.0
5°	291.9	291.7	292.2	291.5	292.9	293.3	293.4	294.1	294.9	295.2	295.2
7.5°	296.3	296.3	296.5	295.6	296.5	296.5	296.1	296.8	297.6	297.7	297.6
10°	303.9	304.0	303.6	301.3	300.5	298.4	296.5	296.6	297.7	298.5	298.8
12.5°	313.5	313.2	311.6	307.2	304.0	299.8	297.8	297.8	298.8	299.5	299.7
15°	324.5	323.7	319.3	312.3	306.6	302.5	299.3	298.5	297.9	297.2	297.2
17.5°	334.9	333.0	325.8	315.9	310.0	304.5	298.3	293.3	289.9	287.9	287.3
20°	345.4	341.7	331.2	319.3	311.8	301.8	289.9	279.8	273.6	270.7	270.2
22.5°	355.0	349.0	336.4	322.9	310.3	292.8	274.1	259.5	250.8	246.9	247.2
25°	364.4	356.0	341.7	325.4	303.0	276.9	252.2	234.2	224.1	219.7	219.6
27.5°	372.7	363.1	347.5	323.4	289.4	254.4	226.1	208.6	200.2	196.5	195.9
30°	382.1	372.0	355.2	315.5	269.4	228.3	200.7	188.4	182.4	178.7	178.0
32.5°	393.6	384.2	361.5	301.3	243.8	201.0	180.9	172.3	166.9	162.7	161.9
35°	410.4	400.2	363.1	280.8	215.8	179.5	166.3	157.5	150.2	144.8	144.2
37.5°	431.5	420.3	359.5	254.4	188.5	165.6	154.2	143.3	133.8	126.2	124.9
40°	461.8	444.9	349.3	223.9	168.5	154.8	142.4	130.0	118.1	109.2	107.5
42.5°	498.3	473.8	333.8	193.5	153.8	143.9	130.7	115.2	104.0	97.6	96.7
45°	544.6	503.8	312.2	167.0	139.3	133.0	118.0	103.8	96.8	92.1	91.4
47.5°	597.6	537.6	289.5	145.4	127.0	122.8	107.8	98.7	93.1	89.5	88.8
50°	662.6	575.6	265.5	127.7	114.6	110.5	103.0	95.9	91.4	88.6	87.9
52.5°	736.0	618.6	248.2	113.7	104.4	101.4	100.5	94.3	90.8	88.6	87.9
55°	815.0	662.3	229.5	102.0	95.6	96.4	98.8	94.5	92.1	89.5	88.5
57.5°	894.1	707.4	208.7	92.1	88.6	92.7	97.7	94.8	92.7	90.2	89.3
60°	956.7	736.0	176.4	83.7	83.0	88.6	95.0	92.5	89.8	89.9	89.8
62.5°	985.9	734.5	140.8	76.3	77.4	83.0	90.5	88.9	86.7	89.7	89.9
65°	969.5	697.9	109.6	69.6	71.5	77.2	86.0	87.2	87.9	93.7	94.4
67.5°	900.7	626.6	84.9	63.8	66.1	73.2	86.4	95.0	95.9	102.0	101.9
69°	829.5	559.8	73.8	60.7	63.4	74.2	92.4	99.9	96.2	102.6	101.7
70°	769.9	507.0	67.8	58.7	62.2	76.0	96.3	99.8	95.0	100.5	99.0
72.5°	592.9	364.7	57.5	54.8	58.0	72.7	97.5	97.6	92.4	93.4	90.8
75°	406.7	230.5	50.2	49.7	51.8	65.5	93.8	93.3	85.4	83.9	81.8
77.5°	224.2	117.1	42.6	44.7	46.1	58.0	85.3	84.5	78.0	74.8	74.1
80°	86.5	51.3	36.0	39.7	40.7	50.3	74.7	74.1	68.6	64.5	63.4
82.5°	32.6	26.8	29.7	34.4	34.1	41.5	63.3	62.9	57.7	51.6	49.8
85°	15.1	16.1	23.6	28.4	26.2	30.7	50.6	51.3	44.9	37.8	37.8
87.5°	6.4	9.0	16.7	21.4	17.6	20.7	37.1	35.5	32.6	22.6	21.2
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)