

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: INVUE

Report Number: P553700

Luminaire Tested: **LXS-VA1-740-U-AST-S**

Issue Date: 7/13/2021

Test Information

Test Method: LM-79-08
Report Number: P553700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1803-687-17-R2)
Test Lab: INNOVATION CENTER
Issue Date: 7/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: LXS-VA1-740-U-AST-S
Description: LUXESCAPE OUTDOOR ARCHITECTURAL LUMINAIRE
70 CRI, 4000K LEDS AND TYPE IV OPTIC, SPIDER MOUNT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2374 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Circular (Dia: 1.62' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

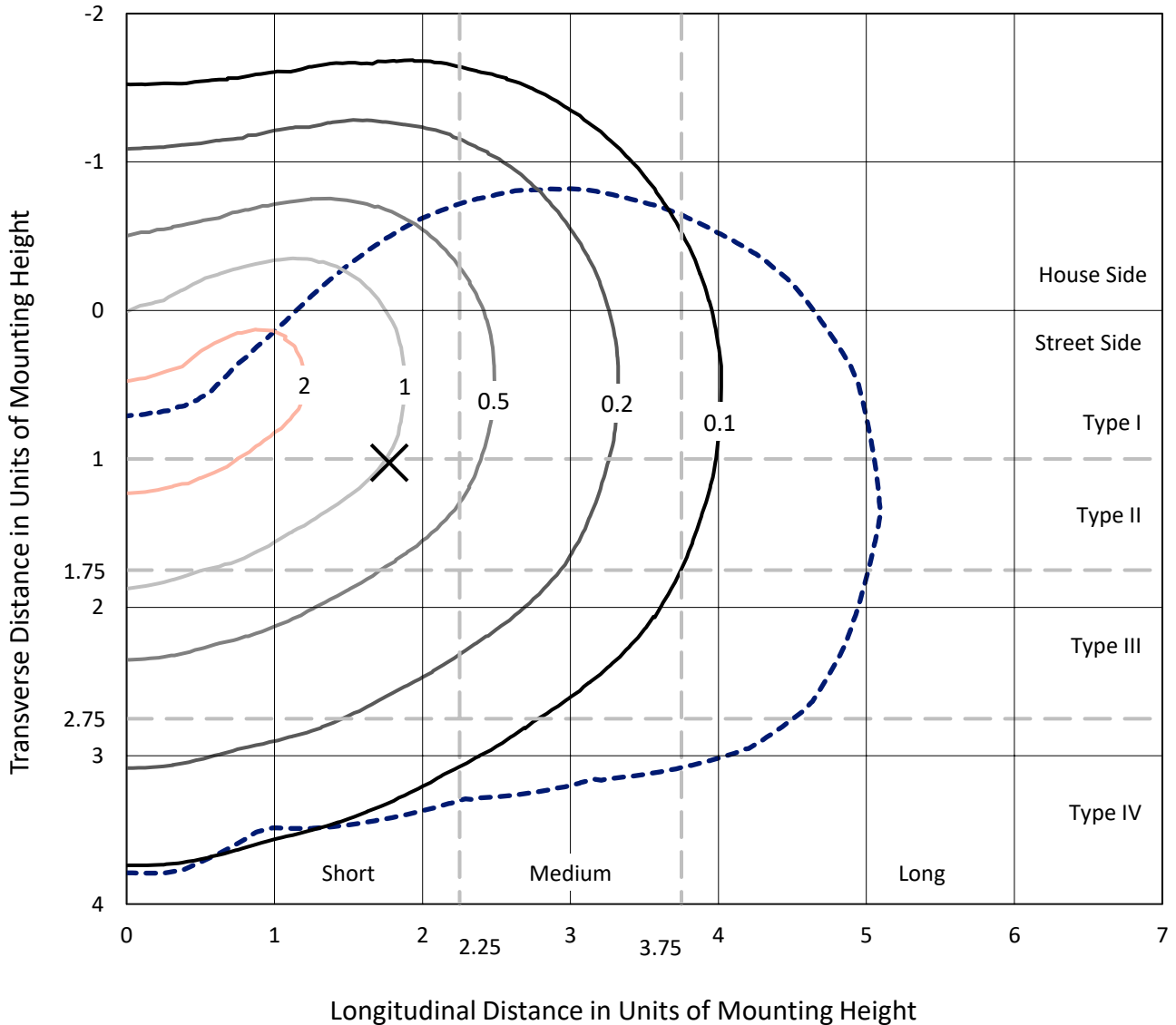
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

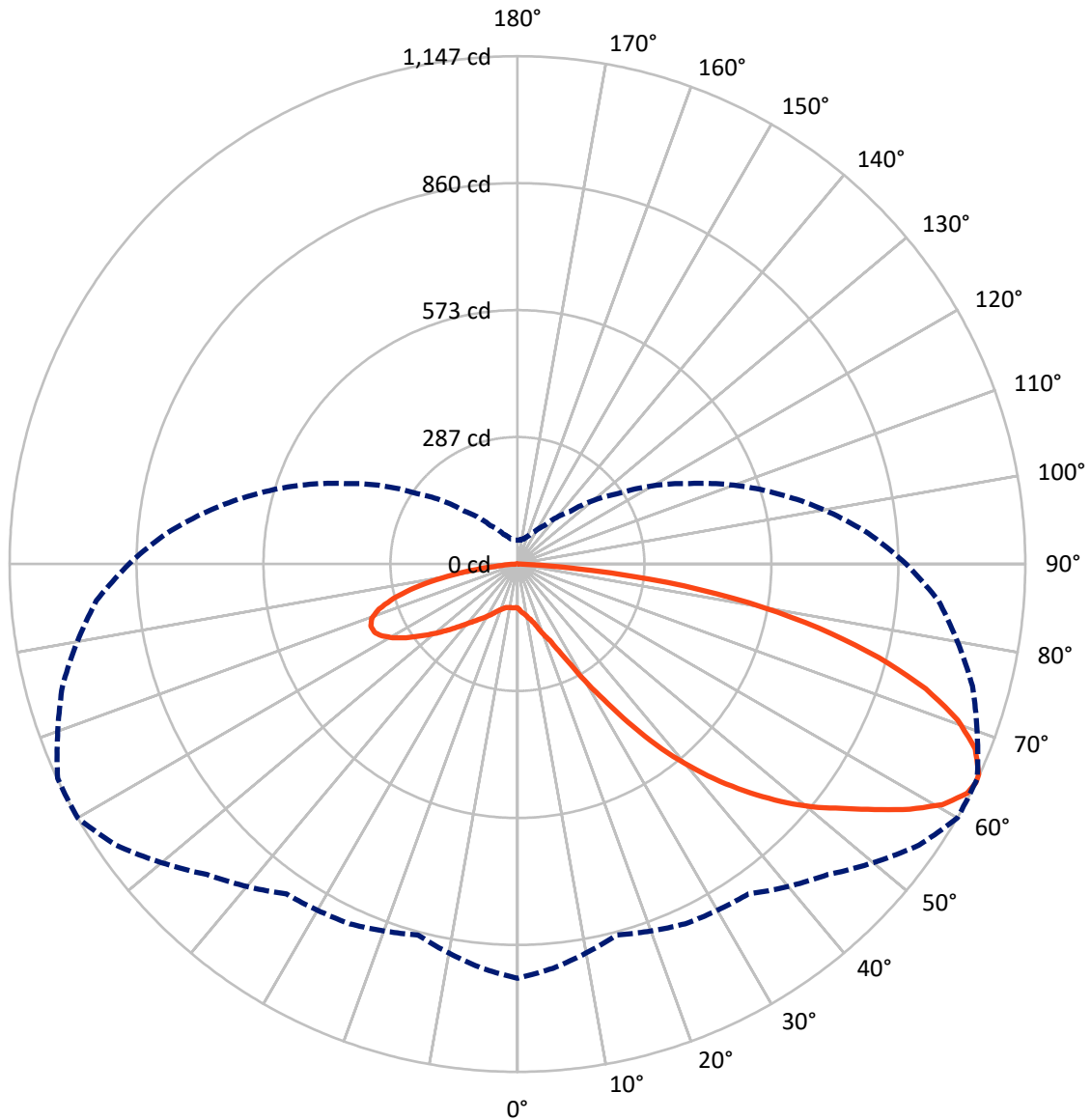
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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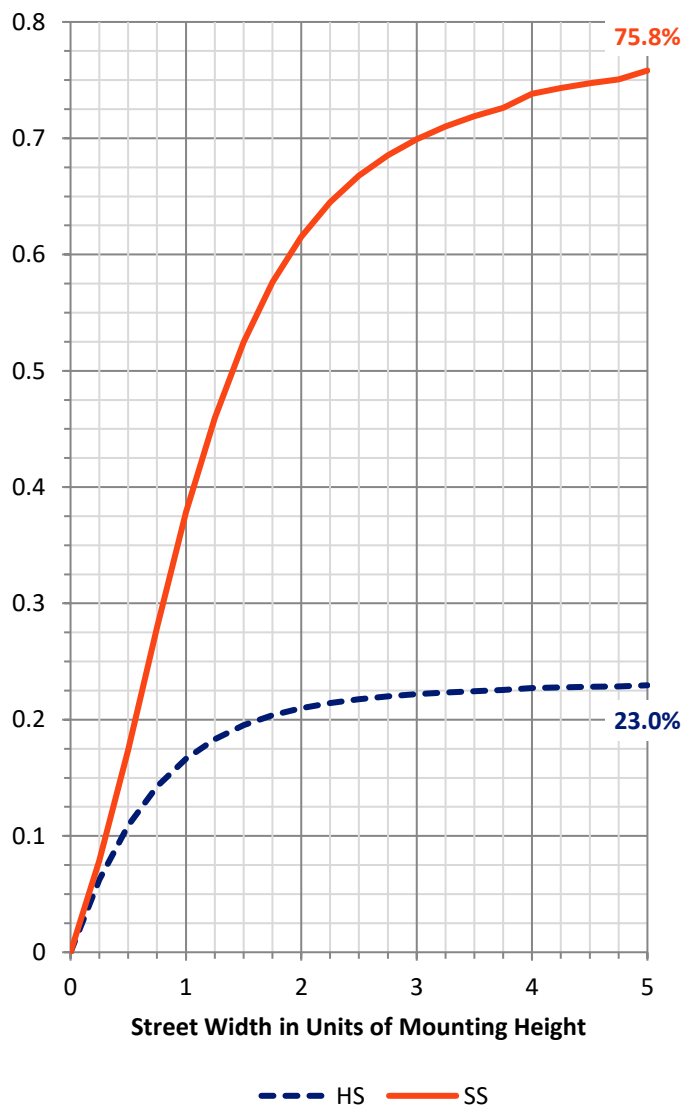
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	549.1	0.0	549.1
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	1824.9	0.0	1824.9
	% Fixture	76.9	0.0	76.9
Total	Lumens	2374.0	0.0	2374.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.1	0.4
10°-20°	34.6	1.5
20°-30°	81.1	3.4
30°-40°	190.3	8.0
40°-50°	343.8	14.5
50°-60°	507.3	21.4
60°-70°	615.9	25.9
70°-80°	478.5	20.2
80°-90°	112.3	4.7
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°	2374.0	100.0
0°-180°	2374.0	100.0

Coefficient of Utilization



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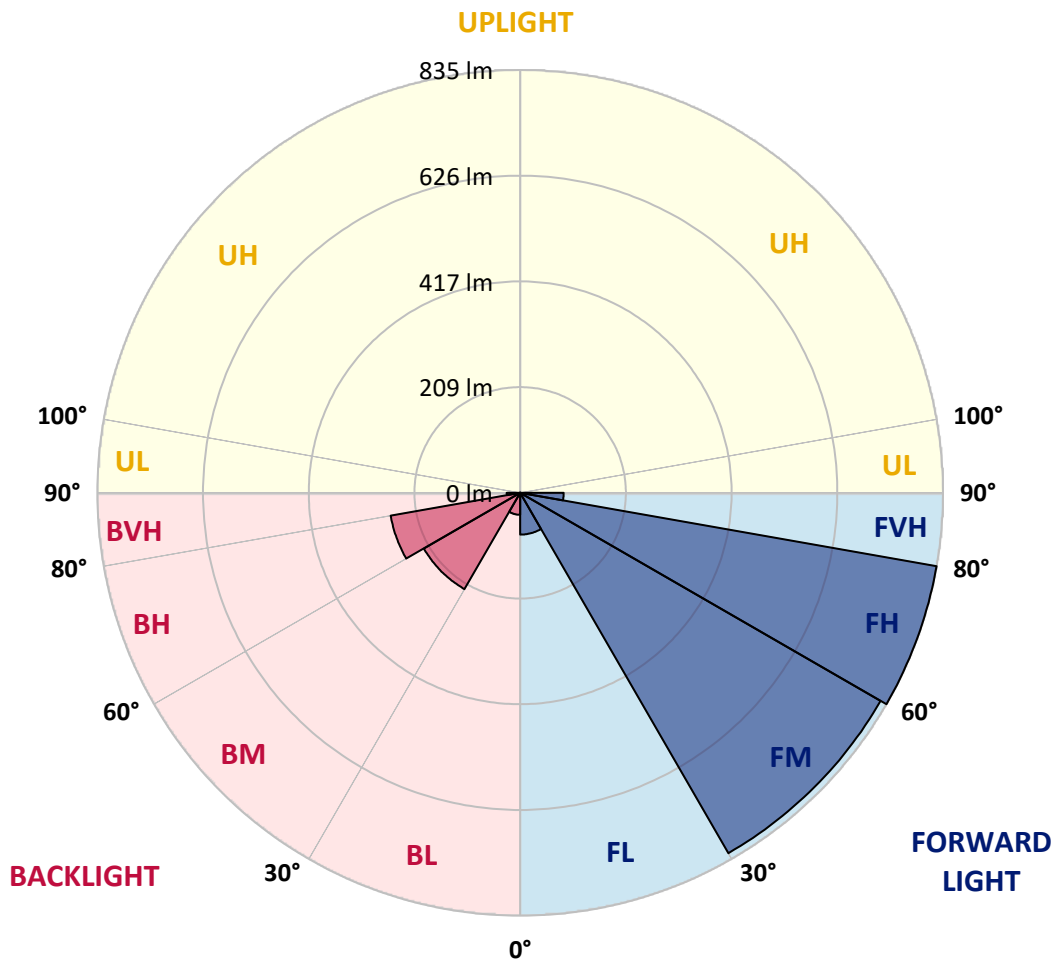
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	82.5	3.5			
FM	(30°-60°)	821.7	34.6			
FH	(60°-80°)	834.9	35.2			G1/1800
FVH	(80°-90°)	85.8	3.6			G1/100
BL	(0°-30°)	43.4	1.8	B0/110		
BM	(30°-60°)	219.6	9.3	B0/220		
BH	(60°-80°)	259.6	10.9	B1/500		G1/500
BVH	(80°-90°)	26.5	1.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
2.5°	108.2	108.2	108.2	107.2	107.2	106.2	104.2	104.2	103.2	102.1	101.1
5°	114.2	114.2	114.2	113.2	113.2	112.2	110.2	110.2	109.2	107.2	105.2
7.5°	119.2	120.2	119.2	119.2	118.2	117.2	115.2	114.2	113.2	111.2	108.2
10°	130.2	129.2	128.2	127.2	125.2	123.2	121.2	120.2	119.2	116.2	112.2
12.5°	140.2	139.2	139.2	137.2	135.2	132.2	129.2	128.2	127.2	123.2	118.2
15°	151.2	151.2	150.2	149.2	147.2	144.2	139.2	137.2	136.2	131.2	123.2
17.5°	170.2	170.2	168.2	167.2	164.2	162.2	156.2	153.2	149.2	143.2	134.2
20°	193.3	193.3	193.3	193.3	187.3	179.3	173.3	170.2	165.2	156.2	146.2
22.5°	221.3	221.3	220.3	222.3	218.3	201.3	191.3	187.3	182.3	173.3	161.2
25°	267.4	268.4	265.4	262.4	252.4	237.3	220.3	217.3	213.3	197.3	182.3
27.5°	305.4	306.4	312.5	311.5	293.4	278.4	266.4	258.4	253.4	225.3	205.3
30°	361.5	361.5	368.5	368.5	353.5	332.5	324.5	314.5	299.4	261.4	230.3
32.5°	460.7	458.7	465.7	438.6	425.6	401.6	392.6	375.5	351.5	306.4	263.4
35°	584.9	581.8	581.8	536.8	500.7	486.7	462.7	451.7	421.6	361.5	303.4
37.5°	649.9	649.9	659.0	615.9	584.9	559.8	539.8	529.8	501.7	428.6	350.5
40°	695.0	699.0	709.0	676.0	657.0	623.9	617.9	601.9	577.8	499.7	406.6
42.5°	728.1	732.1	743.1	722.1	711.0	686.0	686.0	671.0	654.0	570.8	467.7
45°	745.1	748.1	755.1	764.1	748.1	741.1	750.1	737.1	723.1	641.9	534.8
47.5°	780.1	782.1	766.1	777.1	778.1	790.1	806.2	801.2	789.1	707.0	599.9
50°	786.1	789.1	790.1	791.2	811.2	823.2	853.2	862.3	848.2	768.1	666.0
52.5°	812.2	805.2	790.1	823.2	820.2	847.2	894.3	916.3	901.3	828.2	727.1
55°	927.3	906.3	867.3	876.3	869.3	911.3	964.4	978.4	960.4	886.3	782.1
57.5°	969.4	949.4	915.3	922.3	925.3	972.4	1038.5	1044.5	1030.5	944.4	836.2
60°	961.4	940.4	910.3	933.4	944.4	1000.5	1089.6	1102.6	1096.6	999.5	892.3
62.5°	957.4	935.4	883.3	920.3	928.4	1002.5	1108.6	1139.7	1137.7	1044.5	937.4
64°	935.4	916.3	867.3	896.3	909.3	991.4	1106.6	1146.7	1145.7	1063.5	954.4
65°	906.3	893.3	851.2	875.3	894.3	978.4	1099.6	1144.7	1142.7	1069.6	961.4
67.5°	816.2	812.2	794.2	822.2	853.2	938.4	1063.5	1114.6	1118.6	1063.5	961.4
70°	740.1	736.1	718.0	757.1	790.1	875.3	1004.5	1054.5	1059.5	1021.5	932.4
72.5°	666.0	665.0	636.9	680.0	709.0	790.1	916.3	964.4	971.4	944.4	870.3
75°	580.8	582.8	555.8	583.8	612.9	685.0	796.2	843.2	849.2	833.2	773.1
77.5°	483.7	484.7	461.7	482.7	511.7	566.8	666.0	697.0	708.0	695.0	641.9
80°	375.5	378.6	356.5	370.5	390.6	434.6	509.7	530.8	531.8	521.8	479.7
82.5°	271.4	261.4	241.4	252.4	272.4	290.4	336.5	342.5	337.5	325.5	292.4
85°	124.2	114.2	115.2	127.2	128.2	118.2	131.2	125.2	123.2	111.2	102.1
87.5°	5.0	4.0	4.0	4.0	3.0	2.0	3.0	2.0	2.0	2.0	2.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
2.5°	101.1	100.1	99.1	99.1	98.1	98.1	97.1	97.1	96.1	96.1	96.1
5°	104.2	103.2	101.1	100.1	98.1	97.1	96.1	94.1	93.1	93.1	93.1
7.5°	107.2	105.2	103.2	101.1	98.1	96.1	93.1	91.1	90.1	89.1	89.1
10°	110.2	109.2	105.2	101.1	98.1	94.1	91.1	89.1	88.1	87.1	87.1
12.5°	115.2	113.2	108.2	103.2	98.1	94.1	91.1	88.1	85.1	84.1	84.1
15°	120.2	117.2	111.2	104.2	98.1	94.1	89.1	85.1	82.1	80.1	80.1
17.5°	129.2	126.2	118.2	108.2	101.1	94.1	88.1	83.1	80.1	78.1	78.1
20°	141.2	136.2	125.2	113.2	104.2	95.1	88.1	82.1	77.1	75.1	74.1
22.5°	155.2	149.2	134.2	119.2	107.2	96.1	88.1	81.1	75.1	71.1	71.1
25°	172.3	164.2	144.2	127.2	111.2	98.1	89.1	80.1	74.1	70.1	70.1
27.5°	192.3	181.3	156.2	137.2	117.2	101.1	89.1	80.1	74.1	71.1	70.1
30°	214.3	201.3	170.2	146.2	123.2	103.2	90.1	79.1	73.1	71.1	71.1
32.5°	240.3	224.3	187.3	156.2	129.2	106.2	90.1	78.1	72.1	71.1	71.1
35°	273.4	251.4	205.3	167.2	135.2	109.2	90.1	78.1	72.1	69.1	69.1
37.5°	315.5	284.4	227.3	180.3	142.2	112.2	91.1	79.1	72.1	68.1	68.1
40°	364.5	323.5	253.4	195.3	150.2	116.2	93.1	79.1	72.1	68.1	67.1
42.5°	415.6	369.5	282.4	213.3	160.2	120.2	94.1	80.1	71.1	67.1	66.1
45°	474.7	421.6	316.5	234.3	171.2	125.2	96.1	81.1	70.1	66.1	65.1
47.5°	537.8	476.7	355.5	258.4	182.3	130.2	98.1	81.1	69.1	65.1	64.1
50°	599.9	534.8	400.6	284.4	195.3	136.2	100.1	81.1	69.1	64.1	63.1
52.5°	657.0	589.9	443.6	310.5	209.3	142.2	102.1	81.1	68.1	63.1	62.1
55°	711.0	640.9	486.7	338.5	226.3	149.2	104.2	80.1	67.1	62.1	61.1
57.5°	762.1	691.0	527.8	368.5	243.4	157.2	106.2	79.1	65.1	60.1	60.1
60°	813.2	738.1	564.8	395.6	259.4	162.2	107.2	78.1	64.1	58.1	58.1
62.5°	858.2	778.1	596.9	418.6	272.4	166.2	107.2	76.1	61.1	56.1	55.1
64°	877.3	795.2	610.9	429.6	277.4	168.2	106.2	74.1	59.1	54.1	54.1
65°	886.3	802.2	617.9	434.6	280.4	168.2	105.2	72.1	58.1	53.1	52.1
67.5°	891.3	806.2	623.9	438.6	280.4	165.2	101.1	68.1	54.1	48.1	48.1
70°	866.3	786.1	609.9	429.6	273.4	159.2	94.1	62.1	49.1	44.1	44.1
72.5°	809.2	738.1	572.8	403.6	253.4	147.2	86.1	56.1	44.1	39.1	39.1
75°	718.0	651.9	506.7	356.5	223.3	129.2	75.1	49.1	38.1	35.1	34.0
77.5°	593.9	544.8	419.6	291.4	184.3	105.2	61.1	40.1	32.0	29.0	29.0
80°	439.6	403.6	304.4	212.3	135.2	78.1	46.1	31.0	25.0	23.0	23.0
82.5°	263.4	242.4	177.3	127.2	83.1	49.1	31.0	21.0	18.0	17.0	17.0
85°	91.1	85.1	59.1	47.1	38.1	24.0	16.0	12.0	12.0	10.0	10.0
87.5°	2.0	4.0	4.0	6.0	6.0	6.0	5.0	4.0	5.0	5.0	5.0
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)