

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: P400925

Luminaire Tested: **ENV-SA1A-730-U-T4W-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P400925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1A-730-U-T4W-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K, 350mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1857 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B0 - U0 - G1

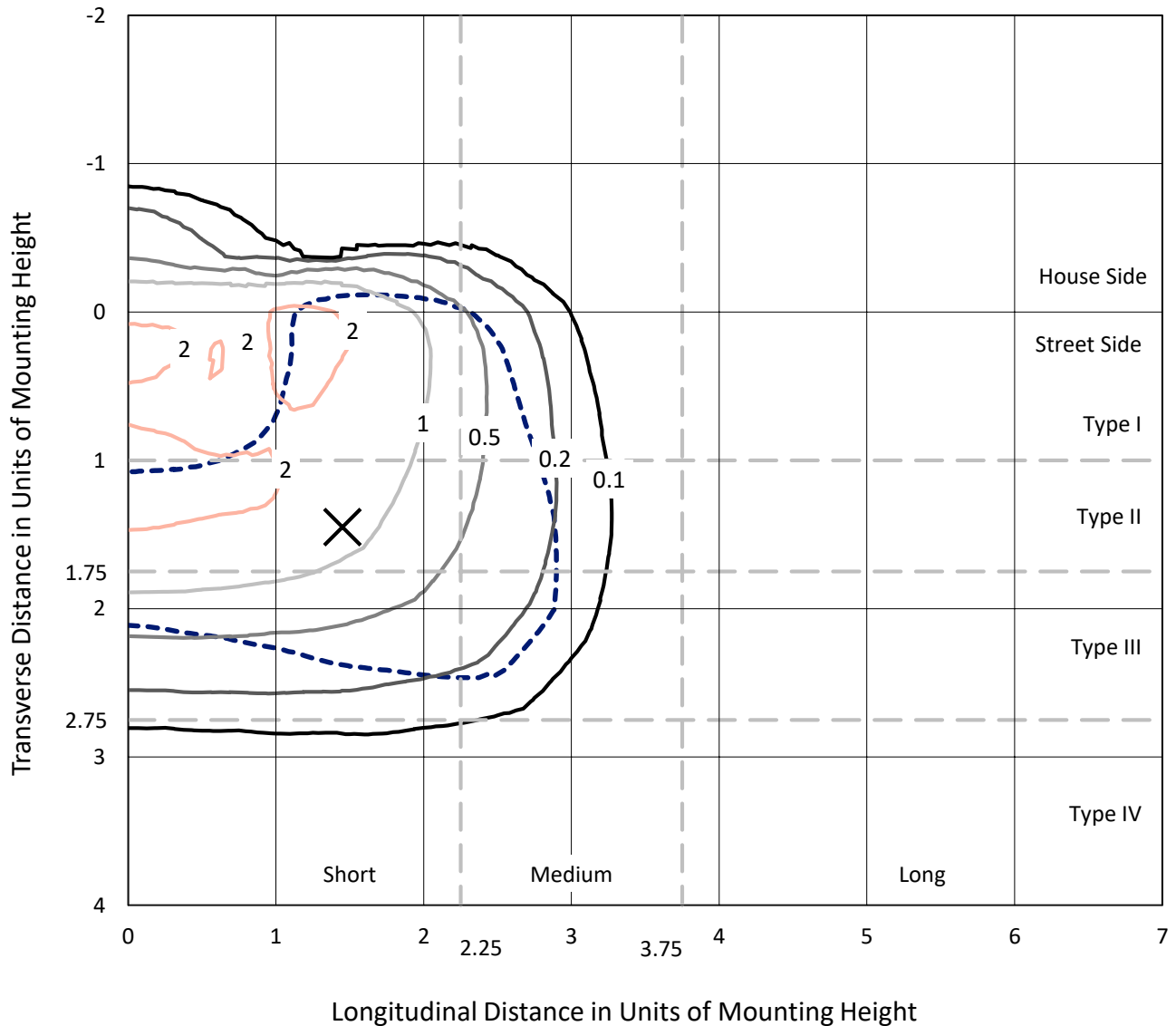
Input Watts (W): 20.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

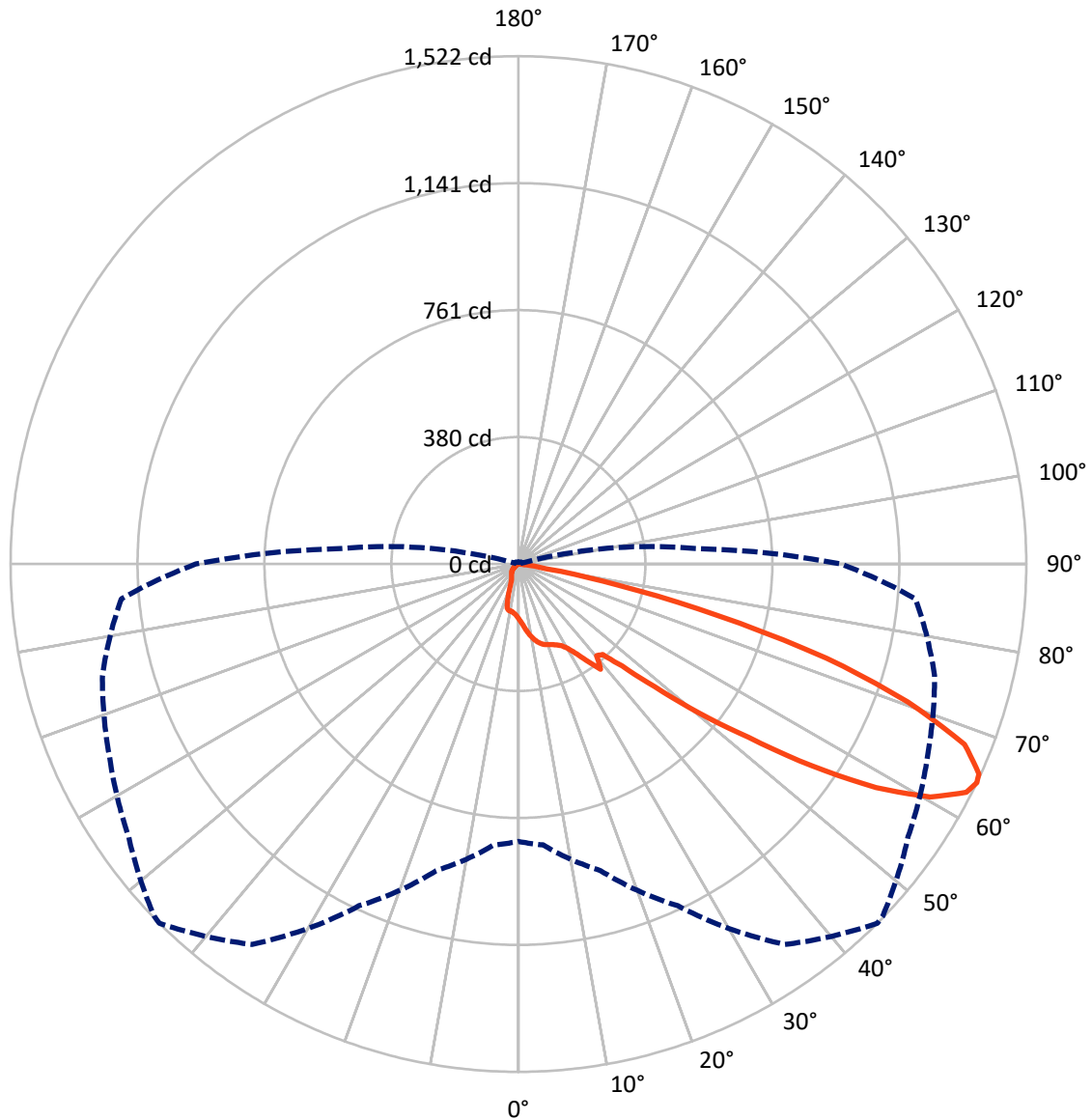
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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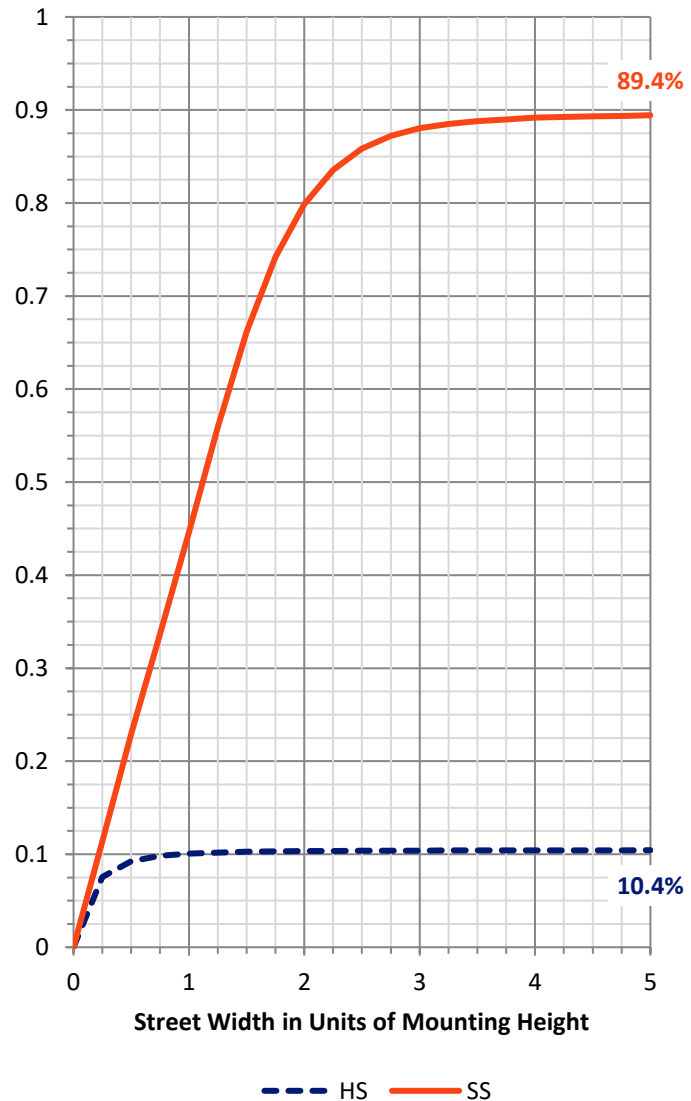
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	195.9	0.0	195.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	1661.1	0.0	1661.1
	% Fixture	89.4	0.0	89.4
Total	Lumens	1857.0	0.0	1857.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.7	0.9
10°-20°	52.1	2.8
20°-30°	84.7	4.6
30°-40°	134.6	7.2
40°-50°	256.4	13.8
50°-60°	528.4	28.5
60°-70°	590.1	31.8
70°-80°	186.4	10.0
80°-90°	7.6	0.4
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°	1857.0	100.0
0°-180°	1857.0	100.0



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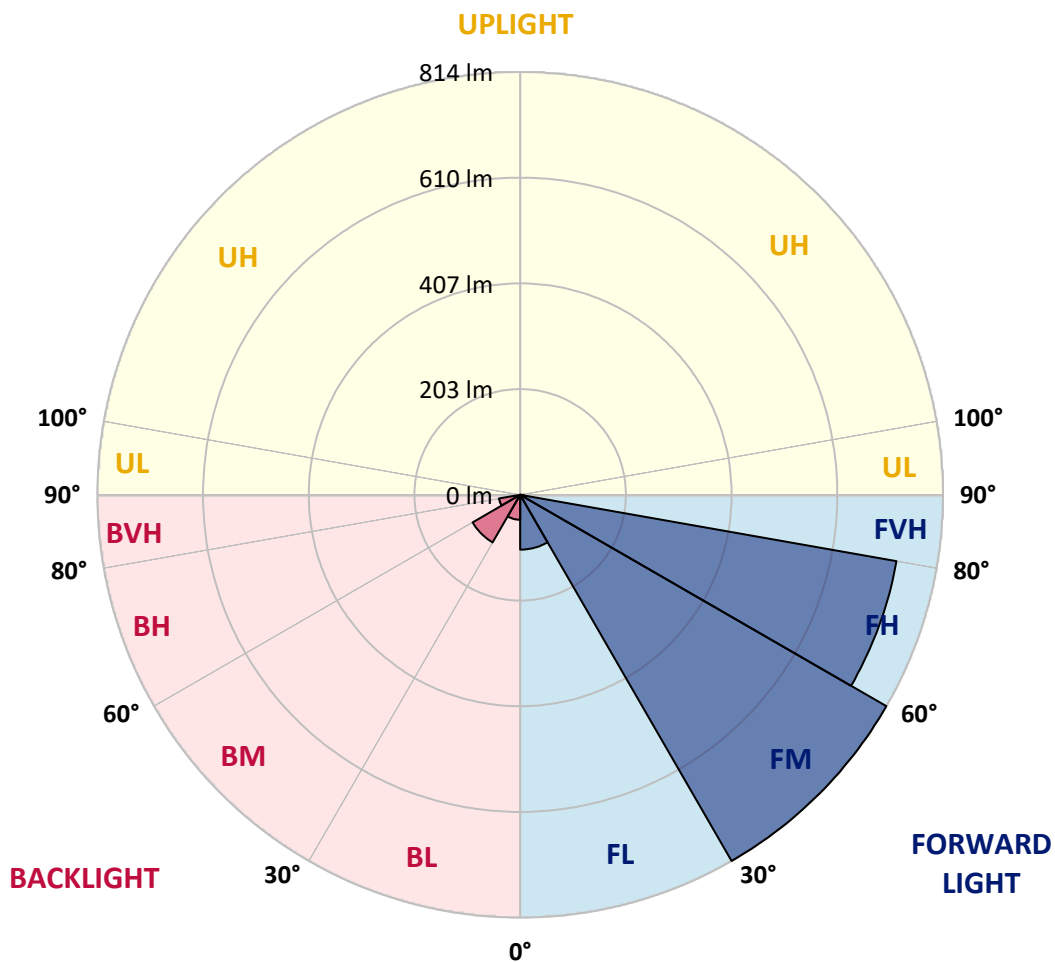
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	105.5	5.7			
FM	(30°-60°)	813.7	43.8			
FH	(60°-80°)	735.2	39.6			G1/1800
FVH	(80°-90°)	6.7	0.4			G0/10
BL	(0°-30°)	48.0	2.6	B0/110		
BM	(30°-60°)	105.7	5.7	B0/220		
BH	(60°-80°)	41.3	2.2	B0/110		G0/110
BVH	(80°-90°)	0.9	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6
2.5°	181.6	182.3	181.2	179.8	178.4	175.9	176.3	173.1	170.6	168.8	166.0
5°	204.6	204.2	202.1	198.9	195.7	191.1	190.4	185.5	180.2	174.5	169.2
7.5°	228.0	226.9	224.8	220.5	214.5	208.5	206.7	199.6	191.9	183.4	174.2
10°	247.1	246.4	243.9	239.3	232.2	223.0	223.0	213.1	202.8	192.6	181.6
12.5°	262.7	261.9	259.1	253.4	245.0	236.8	235.7	226.9	215.6	203.5	190.1
15°	272.2	271.5	268.3	261.9	254.5	247.1	246.0	237.5	227.3	213.4	197.9
17.5°	274.7	274.0	271.5	265.8	260.2	253.8	252.4	245.0	236.1	221.9	206.0
20°	273.6	272.2	270.8	266.2	261.6	257.3	256.6	251.3	243.5	231.5	214.5
22.5°	270.8	269.4	268.3	265.1	262.7	262.3	261.6	258.4	253.4	243.2	227.3
25°	269.7	268.7	267.6	265.5	265.1	268.7	268.3	268.0	265.8	257.0	240.4
27.5°	275.7	275.4	272.9	269.4	271.1	277.2	277.5	279.3	277.9	272.2	259.5
30°	297.0	295.2	289.6	281.8	286.4	294.2	295.6	301.2	301.6	302.3	285.0
32.5°	325.7	322.8	313.3	303.4	306.2	320.7	321.1	329.9	348.7	337.0	298.8
35°	345.5	341.9	327.4	322.1	336.3	359.3	362.5	380.5	381.9	339.5	297.7
37.5°	401.1	395.7	369.2	337.0	350.8	400.3	403.9	400.7	371.0	335.9	312.9
40°	475.4	470.4	446.7	392.6	353.6	361.1	362.8	372.4	378.0	360.7	361.8
42.5°	572.0	565.7	541.2	475.0	397.9	370.6	374.2	393.6	430.8	438.9	480.7
45°	670.8	667.2	642.5	571.0	478.6	435.7	437.5	461.2	527.8	579.1	614.5
47.5°	767.4	768.1	746.9	686.4	596.1	548.7	546.5	577.3	661.6	698.0	734.1
50°	903.7	903.0	865.1	827.6	757.2	700.9	697.3	714.7	795.7	809.2	865.1
52.5°	1058.7	1058.0	1001.0	983.3	953.6	863.0	872.6	857.7	916.1	940.2	1019.5
55°	1132.4	1126.0	1101.9	1124.2	1159.6	1068.7	1067.2	1010.6	1056.3	1076.8	1150.8
57.5°	1124.9	1127.4	1150.4	1224.4	1340.5	1264.4	1266.5	1161.4	1187.9	1200.7	1254.8
60°	1082.8	1084.6	1138.0	1261.2	1430.8	1417.7	1410.2	1302.3	1284.9	1279.6	1305.5
62.5°	962.5	963.2	1049.9	1208.1	1430.1	1506.2	1499.1	1401.4	1347.2	1313.3	1266.2
64°	831.5	844.9	951.1	1129.9	1391.5	1521.7	1517.9	1425.5	1352.9	1290.6	1194.0
65°	723.9	744.1	872.6	1060.5	1347.9	1516.4	1511.8	1421.2	1345.1	1248.1	1119.3
67.5°	493.8	504.4	619.8	834.7	1181.9	1441.7	1440.3	1366.7	1260.5	1078.2	878.2
70°	291.3	299.1	384.4	582.6	908.3	1238.6	1257.3	1230.8	1046.4	774.5	559.3
72.5°	90.6	95.2	169.6	323.5	595.4	964.9	989.4	970.3	761.8	483.9	310.1
75°	34.0	35.4	55.9	140.5	296.3	617.0	624.4	646.7	464.1	255.6	135.6
77.5°	18.8	19.1	27.6	52.7	130.3	303.0	310.1	307.3	246.7	120.7	43.2
80°	9.2	9.6	13.5	23.4	50.6	85.7	101.6	134.2	87.1	59.5	13.8
82.5°	3.2	2.8	6.0	10.6	17.0	23.0	25.8	37.2	36.5	32.6	5.0
85°	0.0	0.0	0.4	0.4	0.4	0.7	0.7	4.6	9.2	10.6	1.4
87.5°	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7
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°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6
2.5°	164.6	163.9	161.4	158.9	157.2	155.0	154.7	153.3	152.9	152.9	152.9
5°	166.4	164.2	159.6	155.7	152.2	149.0	147.6	146.2	145.1	144.8	144.8
7.5°	170.3	167.1	159.6	154.0	148.7	144.8	142.7	141.2	140.2	140.2	140.2
10°	175.9	171.0	161.8	154.0	147.6	142.7	139.5	137.3	135.9	135.6	135.9
12.5°	183.0	176.6	165.3	155.7	148.3	141.9	135.2	122.8	114.7	110.1	109.4
15°	189.7	182.3	169.2	158.2	149.4	135.2	110.8	91.7	78.9	75.0	74.3
17.5°	197.2	189.4	174.5	161.8	145.5	109.0	78.9	63.0	60.5	61.2	61.2
20°	206.4	197.2	180.2	165.3	125.3	77.5	57.7	55.6	56.3	57.7	57.7
22.5°	217.0	207.1	188.0	163.2	95.6	56.6	52.7	53.1	53.8	55.2	55.2
25°	230.8	220.5	196.5	147.3	66.5	49.6	49.9	50.3	51.3	52.7	53.1
27.5°	251.3	238.9	206.7	123.5	50.3	46.0	46.4	47.4	48.5	50.3	50.3
30°	273.3	258.0	215.9	95.2	43.9	42.1	42.5	43.5	45.3	46.7	47.4
32.5°	282.8	269.4	217.7	65.1	40.7	38.9	38.2	39.3	40.7	42.1	42.5
35°	288.1	282.5	209.2	47.1	38.2	36.1	34.7	34.3	34.7	35.8	35.8
37.5°	314.3	310.4	192.2	40.4	35.8	33.6	31.5	29.7	29.0	28.7	29.0
40°	364.6	356.1	169.9	37.2	33.6	31.1	28.3	25.5	23.0	21.9	21.9
42.5°	475.4	432.6	138.1	35.0	31.5	28.7	24.4	20.5	17.7	17.0	17.0
45°	594.7	527.4	103.7	33.3	29.4	25.8	20.5	16.3	13.8	13.1	13.1
47.5°	709.4	597.5	72.6	31.1	26.9	22.7	17.0	13.1	11.3	11.0	11.0
50°	829.7	658.4	50.6	28.7	24.4	19.5	13.8	10.6	9.6	9.6	9.6
52.5°	946.9	703.4	37.2	26.2	21.2	16.3	11.7	9.6	8.8	8.8	8.8
55°	1035.4	720.7	28.3	23.0	18.1	13.8	10.6	9.2	8.5	8.1	8.1
57.5°	1094.5	706.2	23.0	19.1	15.2	12.0	9.6	8.5	7.8	7.4	7.4
60°	1093.1	658.0	18.4	15.6	12.4	10.3	8.8	7.8	7.1	6.7	6.7
62.5°	1029.0	579.8	14.5	12.4	10.3	8.8	7.8	7.1	6.4	6.0	5.7
64°	966.4	531.3	12.4	10.6	9.2	8.1	7.1	6.4	5.7	5.0	5.0
65°	898.4	485.3	11.3	9.6	8.1	7.4	6.7	6.0	5.0	4.2	4.2
67.5°	683.2	359.3	9.2	7.4	6.4	6.0	5.3	4.6	3.5	2.8	2.8
70°	443.5	232.6	7.8	6.0	5.3	5.3	5.0	3.9	2.8	2.5	2.1
72.5°	227.3	115.8	6.4	5.0	4.6	4.6	4.2	3.2	2.5	2.1	1.8
75°	96.3	47.1	5.3	4.2	3.9	3.5	3.2	2.8	2.1	1.8	1.8
77.5°	33.6	17.7	5.0	4.2	3.2	2.8	2.8	2.8	2.8	2.5	2.1
80°	11.3	6.7	3.2	3.2	3.5	3.9	3.9	3.5	3.9	3.2	2.5
82.5°	4.6	2.5	1.1	1.4	2.5	2.8	3.2	3.2	3.2	2.5	2.1
85°	1.1	0.7	0.7	1.1	1.1	1.4	1.4	1.8	1.8	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.1	0.7	1.1	1.1	1.1
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)