

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: P401123

Luminaire Tested: **ENV-SA1B-735-U-T4W-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401123
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-SA1B-735-U-T4W-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 450mA 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: 2402 lumens
Efficiency: N/A
Efficacy: 94.6 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

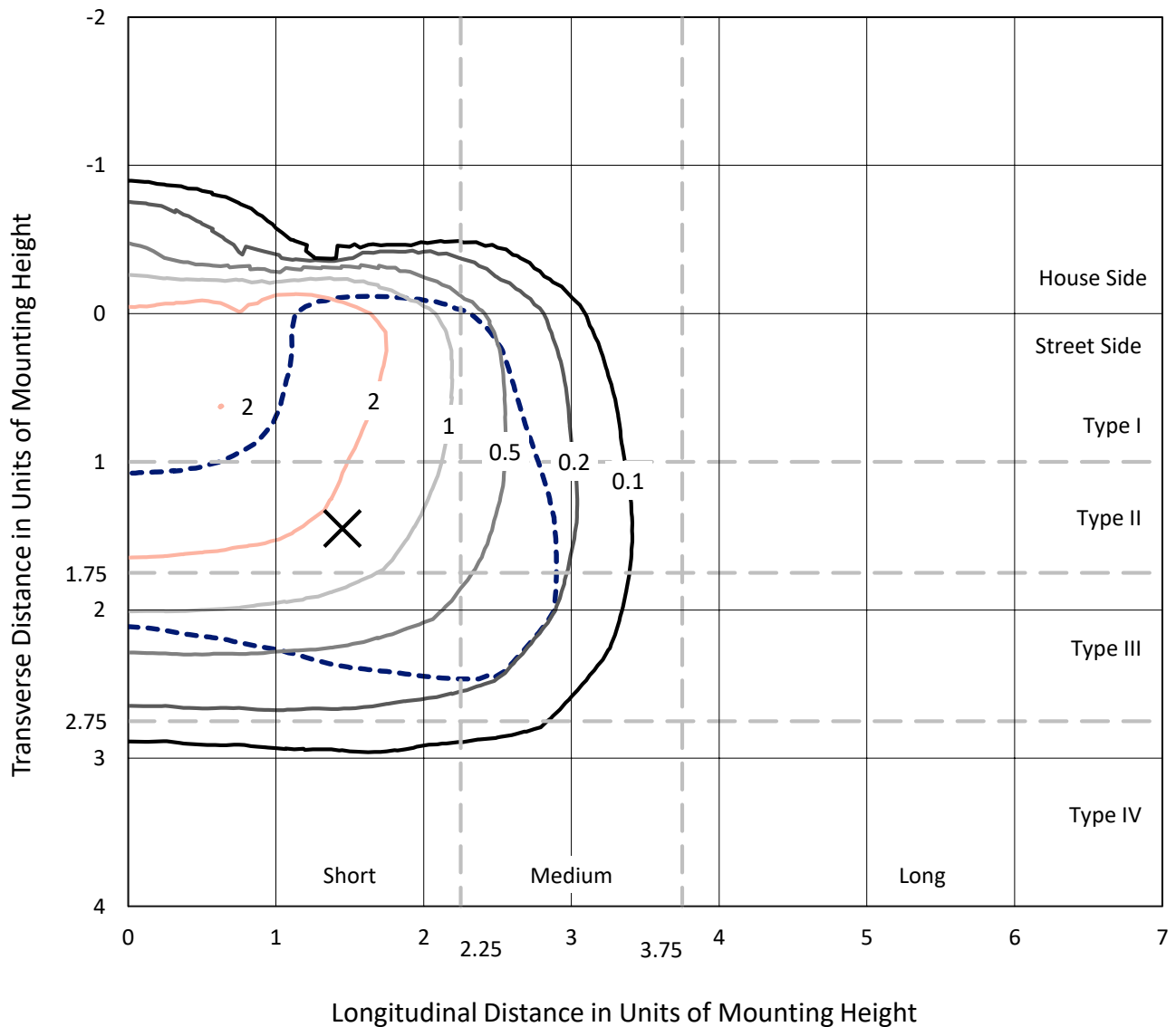
Input Watts (W): 25.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

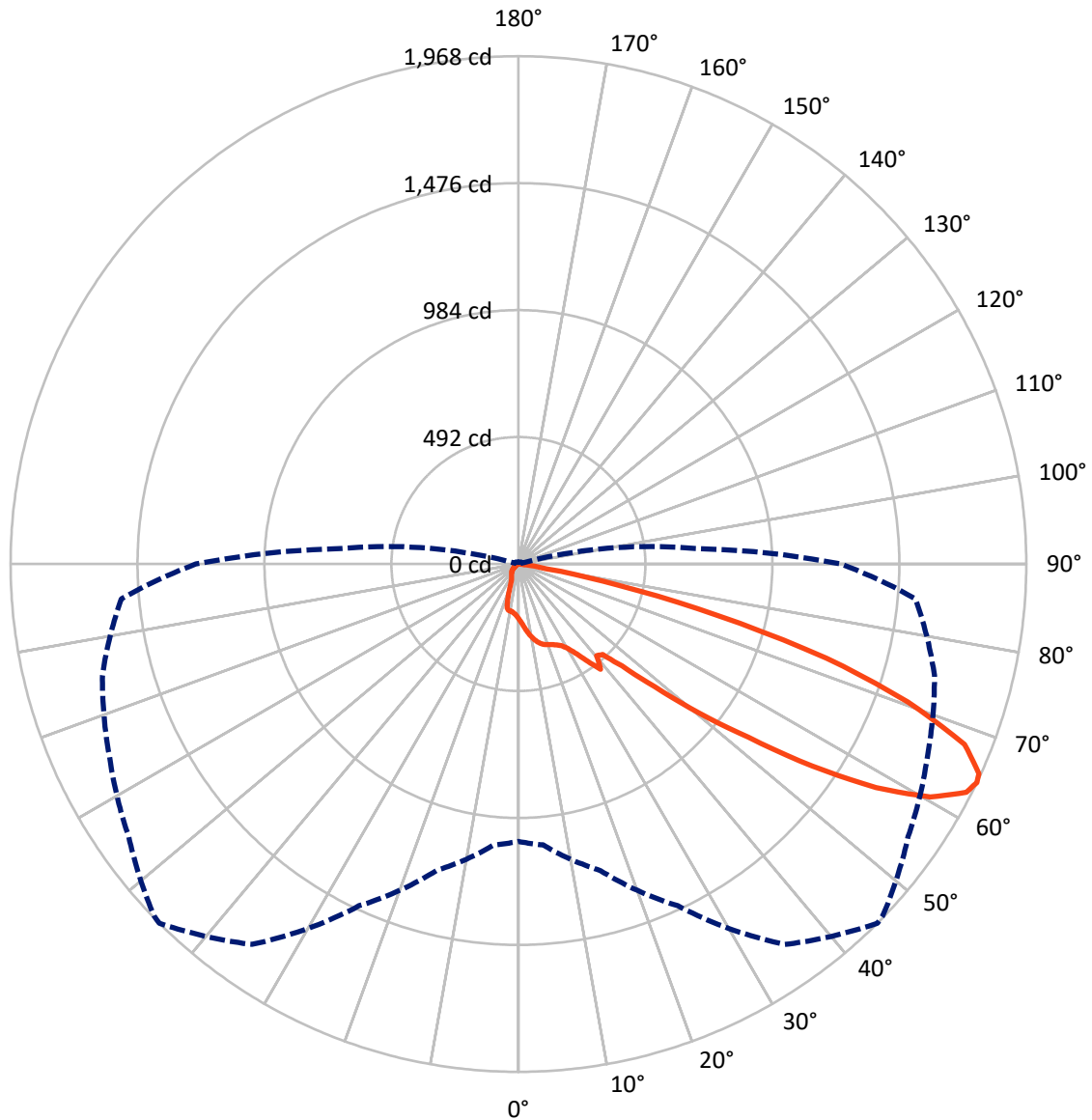
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.2 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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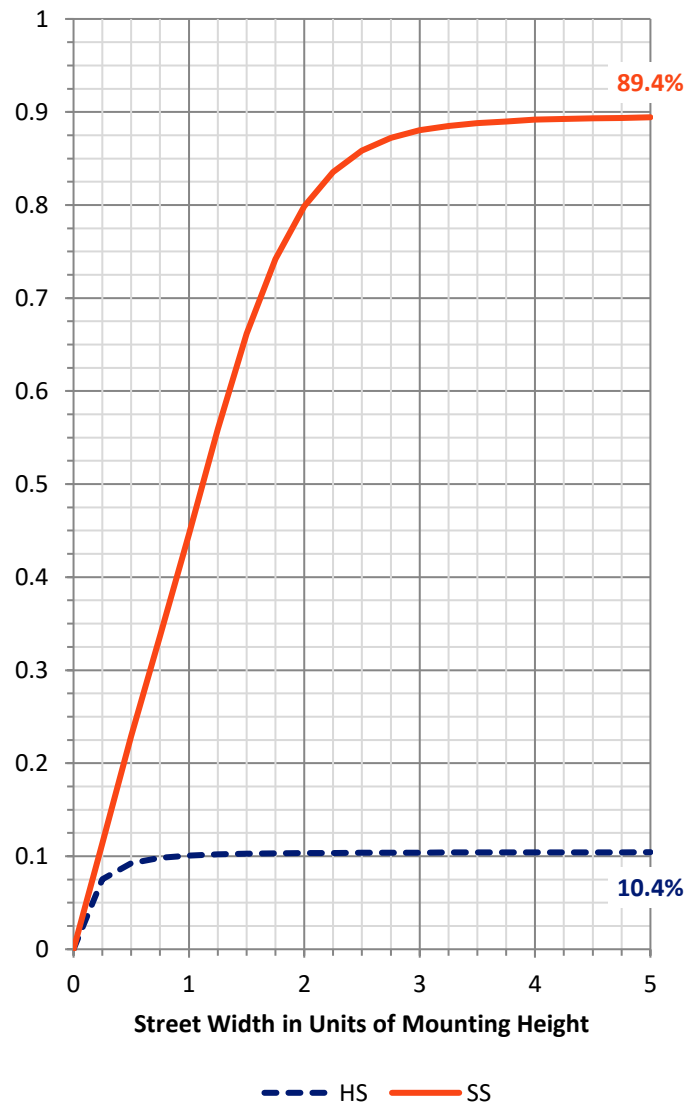
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	253.5	0.0	253.5
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	2148.6	0.0	2148.6
	% Fixture	89.4	0.0	89.4
Total	Lumens	2402.0	0.0	2402.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.6	0.9
10°-20°	67.3	2.8
20°-30°	109.6	4.6
30°-40°	174.1	7.2
40°-50°	331.7	13.8
50°-60°	683.5	28.5
60°-70°	763.3	31.8
70°-80°	241.1	10.0
80°-90°	9.8	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°	2402.0	100.0
0°-180°	2402.0	100.0



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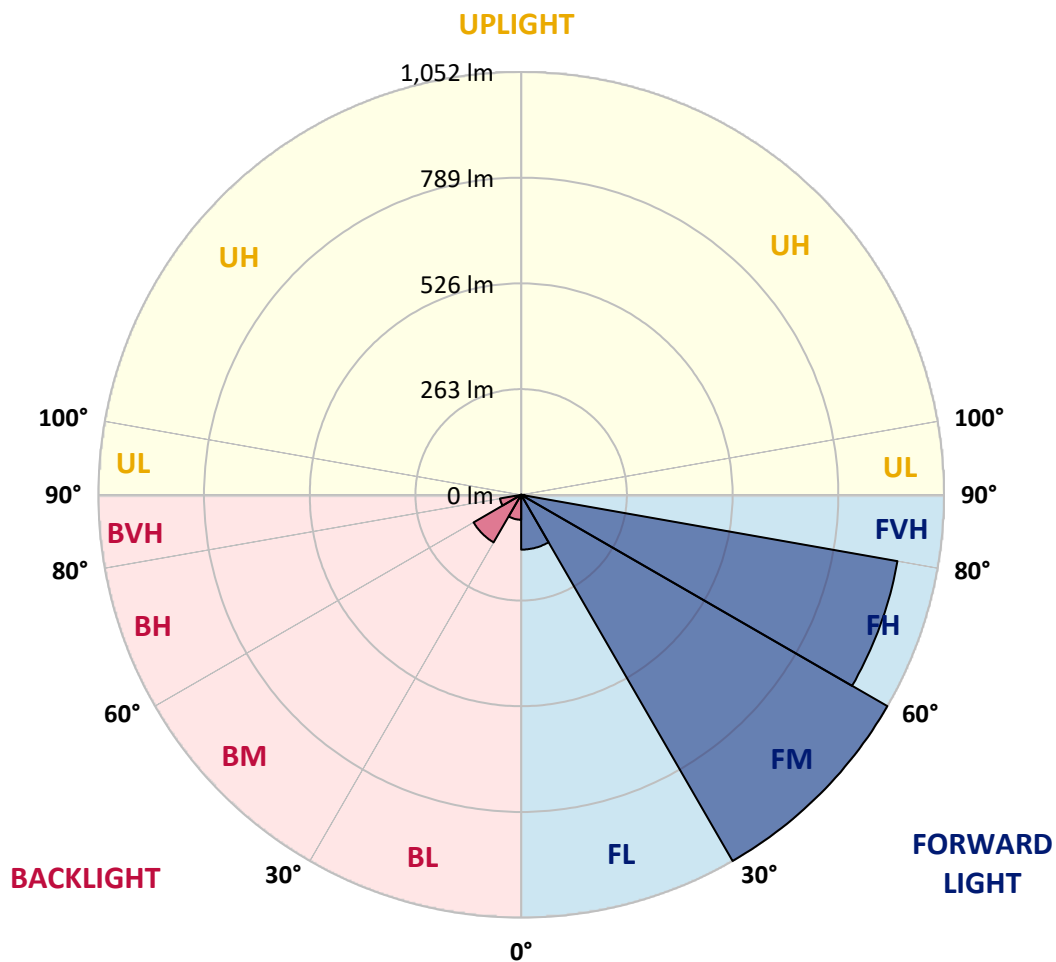
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	136.4	5.7			
FM (30°-60°)	1052.5	43.8			
FH (60°-80°)	951.0	39.6			G1/1800
FVH (80°-90°)	8.6	0.4			G0/10
BL (0°-30°)	62.1	2.6	B0/110		
BM (30°-60°)	136.8	5.7	B0/220		
BH (60°-80°)	53.4	2.2	B0/110		G0/110
BVH (80°-90°)	1.2	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°	212.9	212.9	212.9	212.9	212.9	212.9	212.9	212.9	212.9	212.9	212.9
2.5°	234.9	235.8	234.4	232.6	230.8	227.6	228.0	223.9	220.7	218.4	214.7
5°	264.6	264.2	261.4	257.3	253.2	247.2	246.3	239.9	233.1	225.7	218.9
7.5°	294.9	293.5	290.7	285.2	277.5	269.7	267.4	258.2	248.2	237.2	225.3
10°	319.6	318.7	315.5	309.5	300.4	288.5	288.5	275.6	262.4	249.1	234.9
12.5°	339.7	338.8	335.2	327.8	316.8	306.3	304.9	293.5	278.8	263.3	245.9
15°	352.1	351.2	347.1	338.8	329.2	319.6	318.2	307.2	293.9	276.1	255.9
17.5°	355.3	354.4	351.2	343.9	336.5	328.3	326.5	316.8	305.4	287.1	266.5
20°	353.9	352.1	350.3	344.3	338.4	332.9	332.0	325.1	315.0	299.4	277.5
22.5°	350.3	348.4	347.1	342.9	339.7	339.3	338.4	334.2	327.8	314.6	293.9
25°	348.9	347.5	346.1	343.4	342.9	347.5	347.1	346.6	343.9	332.4	310.9
27.5°	356.7	356.2	353.0	348.4	350.7	358.5	359.0	361.3	359.4	352.1	335.6
30°	384.1	381.9	374.5	364.5	370.4	380.5	382.3	389.6	390.1	391.0	368.6
32.5°	421.2	417.6	405.2	392.4	396.1	414.8	415.3	426.7	451.0	435.9	386.4
35°	446.9	442.3	423.5	416.7	435.0	464.7	468.9	492.2	494.0	439.1	385.1
37.5°	518.8	511.9	477.6	435.9	453.7	517.8	522.4	518.3	479.8	434.5	404.8
40°	614.9	608.5	577.8	507.8	457.4	467.0	469.3	481.7	489.0	466.6	467.9
42.5°	739.9	731.7	700.1	614.5	514.6	479.4	484.0	509.1	557.2	567.8	621.8
45°	867.7	863.1	831.0	738.5	619.0	563.6	565.9	596.6	682.7	749.1	794.9
47.5°	992.6	993.6	966.1	887.8	771.0	709.7	706.9	746.8	855.7	902.9	949.6
50°	1168.9	1168.0	1119.0	1070.5	979.4	906.6	902.0	924.4	1029.3	1046.7	1119.0
52.5°	1369.5	1368.6	1294.8	1271.9	1233.5	1116.3	1128.6	1109.4	1185.0	1216.1	1318.6
55°	1464.7	1456.5	1425.3	1454.2	1500.0	1382.3	1380.5	1307.2	1366.3	1392.8	1488.5
57.5°	1455.1	1458.3	1488.1	1583.8	1733.9	1635.5	1638.2	1502.3	1536.6	1553.1	1623.1
60°	1400.6	1402.9	1472.0	1631.4	1850.7	1833.7	1824.1	1684.5	1662.0	1655.2	1688.6
62.5°	1244.9	1245.8	1358.0	1562.7	1849.8	1948.2	1939.1	1812.7	1742.6	1698.7	1637.8
64°	1075.5	1092.9	1230.3	1461.5	1799.9	1968.4	1963.3	1843.8	1750.0	1669.4	1544.4
65°	936.3	962.4	1128.6	1371.8	1743.5	1961.5	1955.5	1838.3	1739.9	1614.4	1447.8
67.5°	638.7	652.5	801.7	1079.6	1528.8	1864.9	1863.0	1767.8	1630.5	1394.7	1136.0
70°	376.8	386.9	497.2	753.6	1174.9	1602.1	1626.3	1592.0	1353.4	1001.8	723.4
72.5°	117.2	123.2	219.3	418.5	770.1	1248.1	1279.7	1255.0	985.3	625.9	401.1
75°	44.0	45.8	72.3	181.8	383.2	798.1	807.7	836.5	600.3	330.6	175.4
77.5°	24.3	24.7	35.7	68.2	168.5	391.9	401.1	397.4	319.1	156.1	55.9
80°	11.9	12.4	17.4	30.2	65.5	110.8	131.4	173.5	112.6	76.9	17.9
82.5°	4.1	3.7	7.8	13.7	22.0	29.8	33.4	48.1	47.2	42.1	6.4
85°	0.0	0.0	0.5	0.5	0.5	0.9	0.9	6.0	11.9	13.7	1.8
87.5°	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9
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°	212.9	212.9	212.9	212.9	212.9	212.9	212.9	212.9	212.9	212.9	212.9
2.5°	212.9	212.0	208.8	205.6	203.3	200.5	200.1	198.3	197.8	197.8	197.8
5°	215.2	212.4	206.5	201.5	196.9	192.8	190.9	189.1	187.7	187.3	187.3
7.5°	220.2	216.1	206.5	199.2	192.3	187.3	184.5	182.7	181.3	181.3	181.3
10°	227.6	221.1	209.2	199.2	190.9	184.5	180.4	177.7	175.8	175.4	175.8
12.5°	236.7	228.5	213.8	201.5	191.8	183.6	174.9	158.9	148.3	142.4	141.5
15°	245.4	235.8	218.9	204.7	193.2	174.9	143.3	118.6	102.1	97.1	96.2
17.5°	255.0	245.0	225.7	209.2	188.2	141.0	102.1	81.5	78.3	79.2	79.2
20°	266.9	255.0	233.1	213.8	162.1	100.3	74.6	71.9	72.8	74.6	74.6
22.5°	280.7	267.9	243.1	211.1	123.6	73.3	68.2	68.7	69.6	71.4	71.4
25°	298.5	285.2	254.1	190.5	86.1	64.1	64.6	65.0	66.4	68.2	68.7
27.5°	325.1	309.1	267.4	159.8	65.0	59.5	60.0	61.4	62.7	65.0	65.0
30°	353.5	333.8	279.3	123.2	56.8	54.5	54.9	56.3	58.6	60.4	61.4
32.5°	365.8	348.4	281.6	84.2	52.7	50.4	49.4	50.8	52.7	54.5	54.9
35°	372.7	365.4	270.6	60.9	49.4	46.7	44.9	44.4	44.9	46.2	46.2
37.5°	406.6	401.5	248.6	52.2	46.2	43.5	40.7	38.5	37.5	37.1	37.5
40°	471.6	460.6	219.8	48.1	43.5	40.3	36.6	33.0	29.8	28.4	28.4
42.5°	614.9	559.5	178.6	45.3	40.7	37.1	31.6	26.6	22.9	22.0	22.0
45°	769.2	682.2	134.2	43.0	38.0	33.4	26.6	21.1	17.9	16.9	16.9
47.5°	917.6	772.9	93.9	40.3	34.8	29.3	22.0	16.9	14.7	14.2	14.2
50°	1073.2	851.6	65.5	37.1	31.6	25.2	17.9	13.7	12.4	12.4	12.4
52.5°	1224.8	909.8	48.1	33.9	27.5	21.1	15.1	12.4	11.4	11.4	11.4
55°	1339.3	932.2	36.6	29.8	23.4	17.9	13.7	11.9	11.0	10.5	10.5
57.5°	1415.7	913.4	29.8	24.7	19.7	15.6	12.4	11.0	10.1	9.6	9.6
60°	1413.9	851.2	23.8	20.1	16.0	13.3	11.4	10.1	9.2	8.7	8.7
62.5°	1331.0	750.0	18.8	16.0	13.3	11.4	10.1	9.2	8.2	7.8	7.3
64°	1250.0	687.3	16.0	13.7	11.9	10.5	9.2	8.2	7.3	6.4	6.4
65°	1162.1	627.7	14.7	12.4	10.5	9.6	8.7	7.8	6.4	5.5	5.5
67.5°	883.7	464.7	11.9	9.6	8.2	7.8	6.9	6.0	4.6	3.7	3.7
70°	573.7	300.8	10.1	7.8	6.9	6.9	6.4	5.0	3.7	3.2	2.7
72.5°	293.9	149.7	8.2	6.4	6.0	6.0	5.5	4.1	3.2	2.7	2.3
75°	124.5	60.9	6.9	5.5	5.0	4.6	4.1	3.7	2.7	2.3	2.3
77.5°	43.5	22.9	6.4	5.5	4.1	3.7	3.7	3.7	3.7	3.2	2.7
80°	14.7	8.7	4.1	4.1	4.6	5.0	5.0	4.6	5.0	4.1	3.2
82.5°	6.0	3.2	1.4	1.8	3.2	3.7	4.1	4.1	4.1	3.2	2.7
85°	1.4	0.9	0.9	1.4	1.4	1.8	1.8	2.3	2.3	1.8	1.8
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.4	0.9	1.4	1.4	1.4
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)