

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: P401105

Luminaire Tested: **ENV-SA1B-730-U-T4W-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401105
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-730-U-T4W-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K, 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: 2328 lumens
Efficiency: N/A
Efficacy: 91.7 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

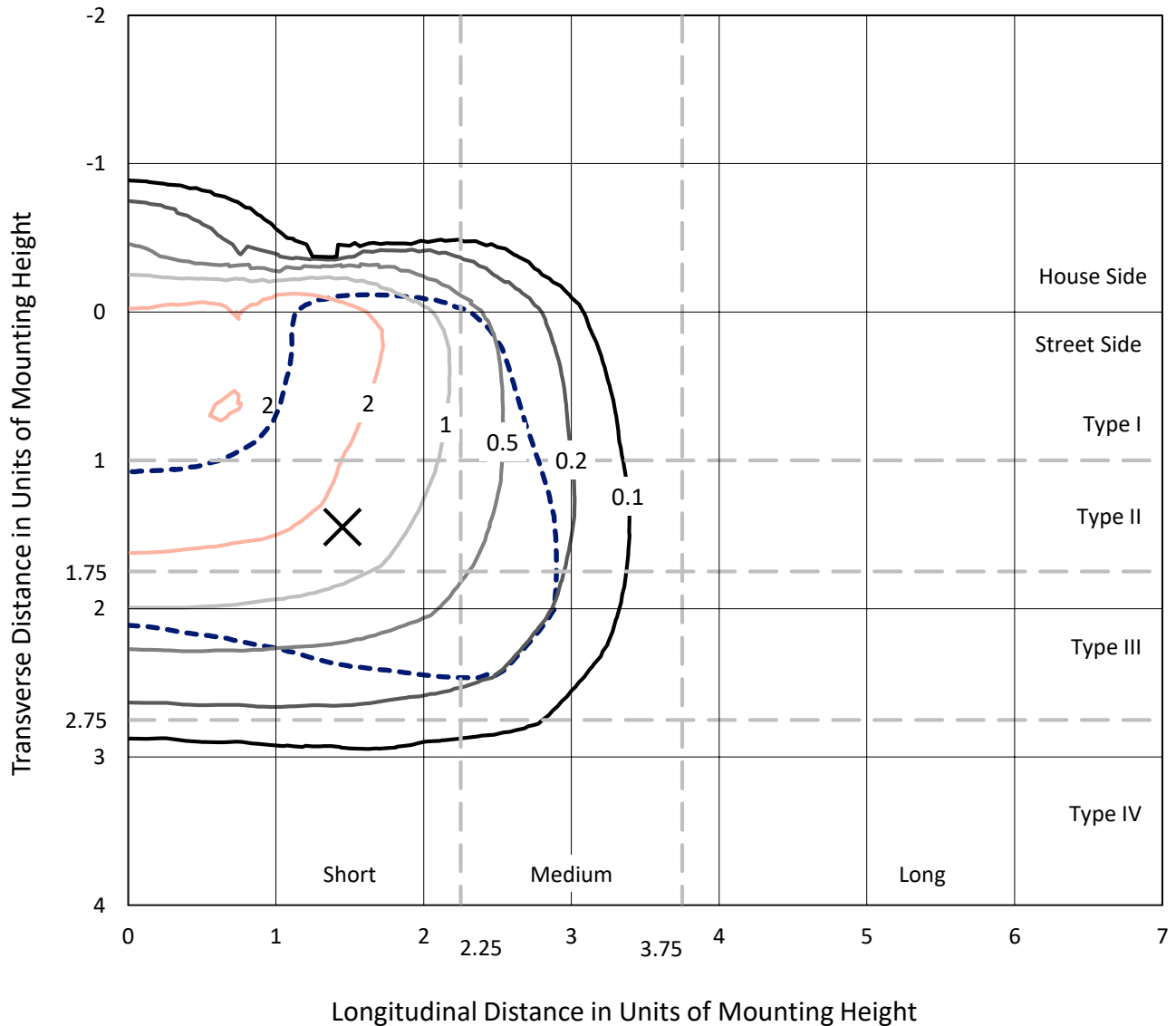
Input Watts (W): 25.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

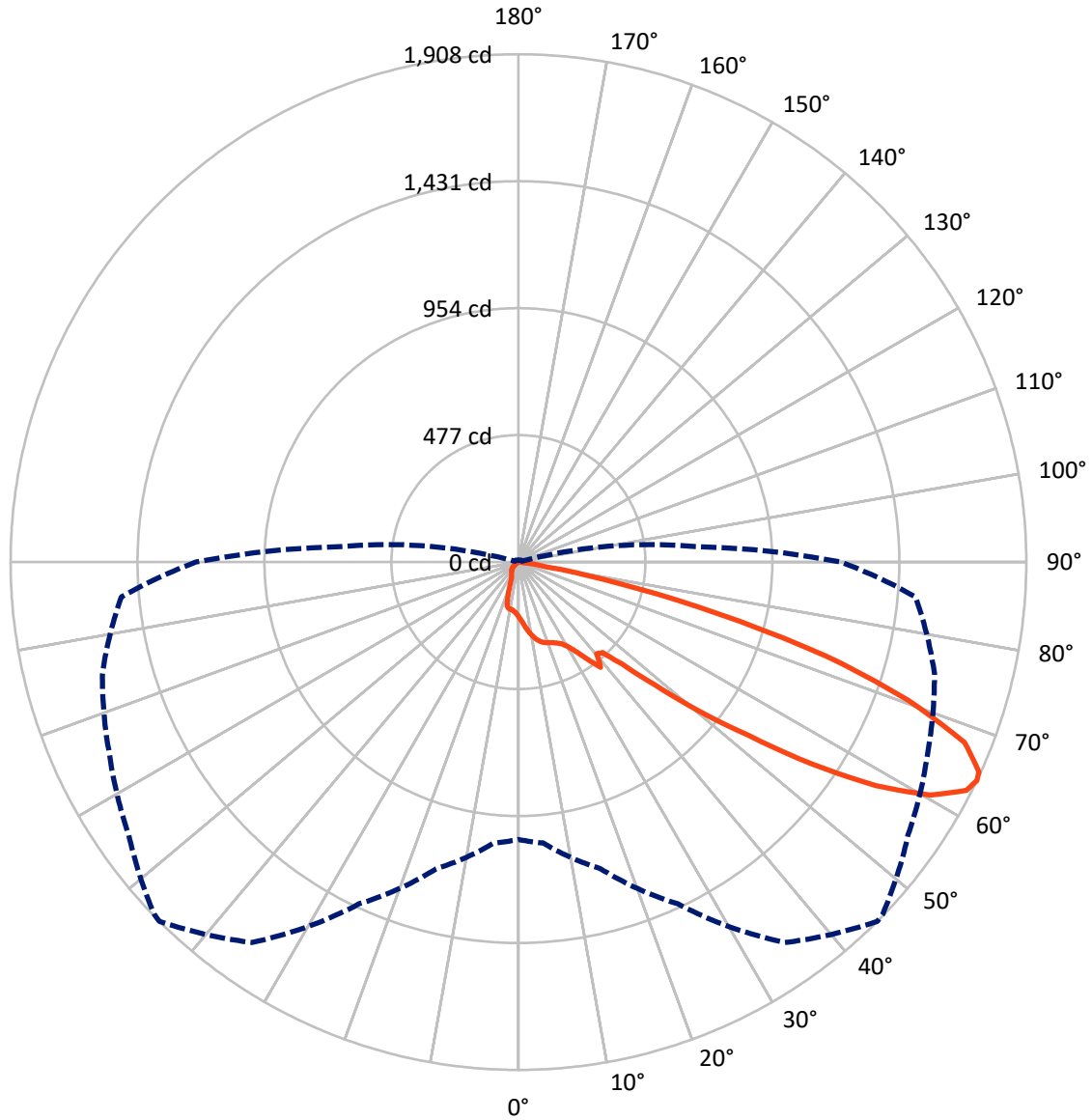
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.1 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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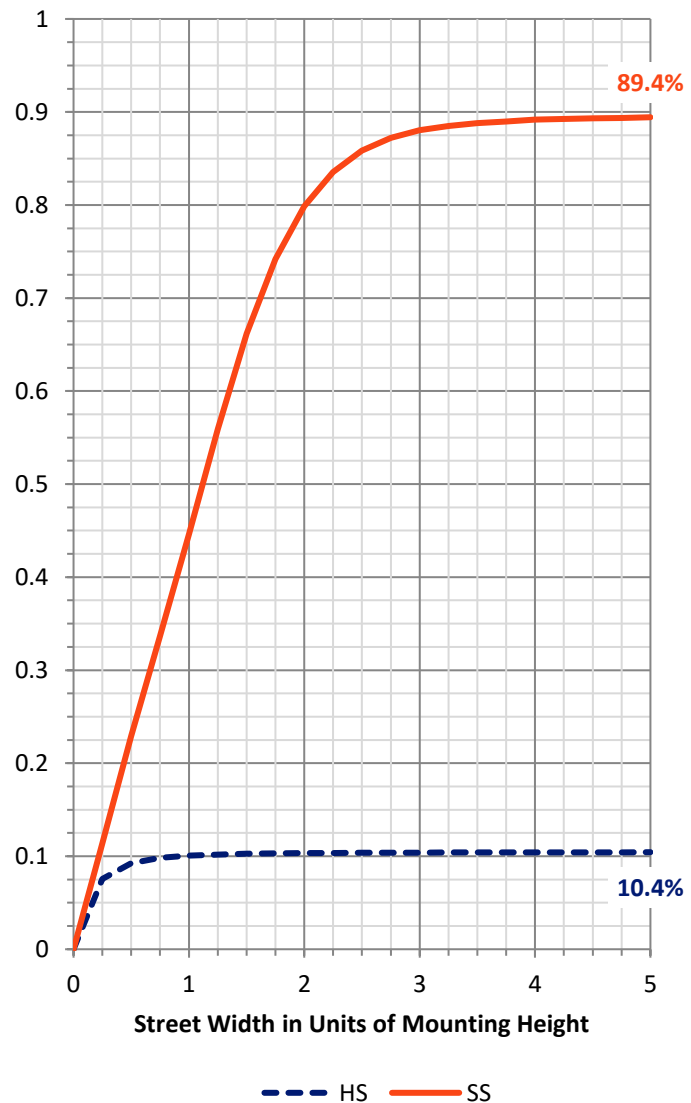
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	245.7	0.0	245.7
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	2082.4	0.0	2082.4
	% Fixture	89.4	0.0	89.4
Total	Lumens	2328.0	0.0	2328.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.9	0.9
10°-20°	65.3	2.8
20°-30°	106.2	4.6
30°-40°	168.8	7.2
40°-50°	321.5	13.8
50°-60°	662.4	28.5
60°-70°	739.8	31.8
70°-80°	233.7	10.0
80°-90°	9.5	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°	2328.0	100.0
0°-180°	2328.0	100.0



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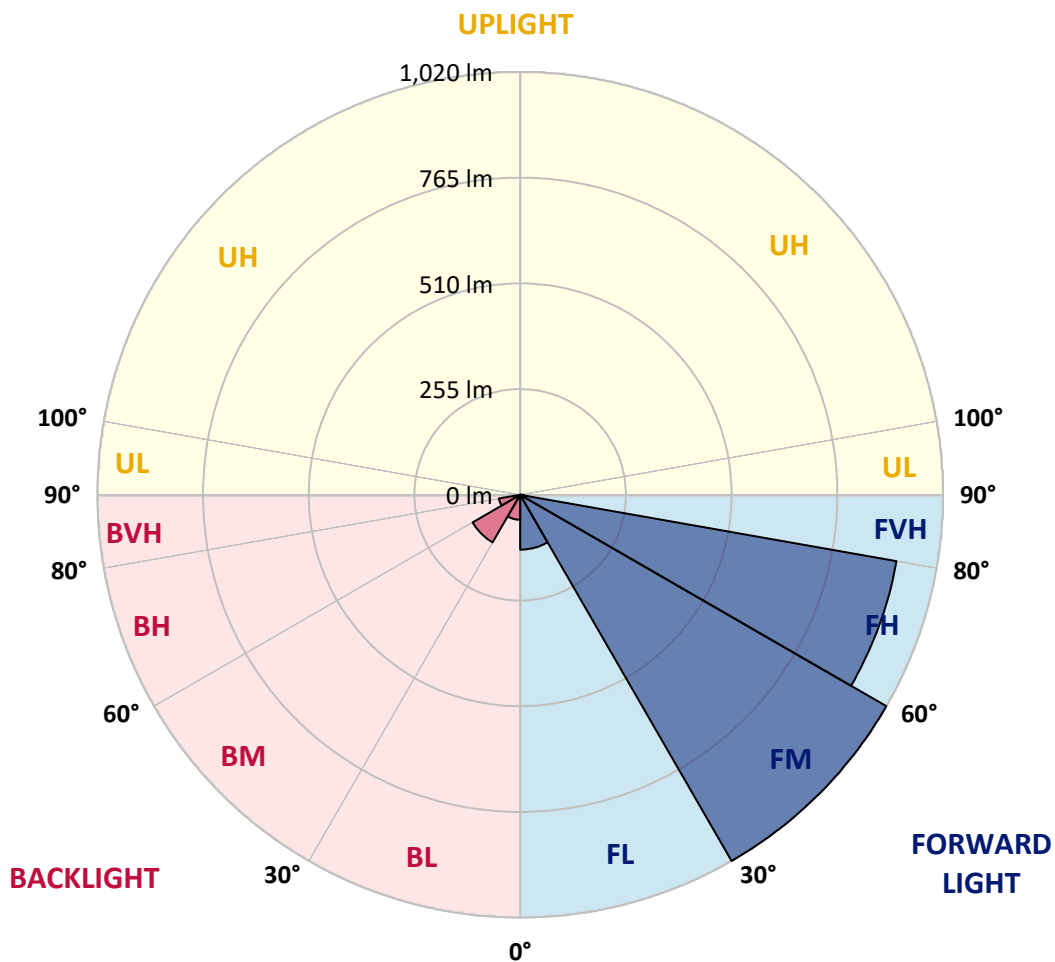
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	132.2	5.7			
FM	(30°-60°)	1020.0	43.8			
FH	(60°-80°)	921.7	39.6			G1/1800
FVH	(80°-90°)	8.4	0.4			G0/10
BL	(0°-30°)	60.2	2.6	B0/110		
BM	(30°-60°)	132.6	5.7	B0/220		
BH	(60°-80°)	51.8	2.2	B0/110		G0/110
BVH	(80°-90°)	1.1	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°	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3
2.5°	227.6	228.5	227.2	225.4	223.7	220.5	221.0	217.0	213.9	211.7	208.1
5°	256.5	256.0	253.4	249.4	245.4	239.6	238.7	232.5	225.9	218.8	212.1
7.5°	285.8	284.4	281.8	276.5	268.9	261.4	259.2	250.3	240.5	229.9	218.3
10°	309.7	308.9	305.7	300.0	291.1	279.6	279.6	267.1	254.3	241.4	227.6
12.5°	329.3	328.4	324.8	317.7	307.1	296.9	295.5	284.4	270.2	255.2	238.3
15°	341.2	340.4	336.4	328.4	319.1	309.7	308.4	297.8	284.9	267.6	248.1
17.5°	344.4	343.5	340.4	333.3	326.2	318.2	316.4	307.1	296.0	278.2	258.3
20°	343.0	341.2	339.5	333.7	327.9	322.6	321.7	315.1	305.3	290.2	268.9
22.5°	339.5	337.7	336.4	332.4	329.3	328.8	327.9	323.9	317.7	304.9	284.9
25°	338.1	336.8	335.5	332.8	332.4	336.8	336.4	335.9	333.3	322.2	301.3
27.5°	345.7	345.2	342.1	337.7	339.9	347.5	347.9	350.1	348.4	341.2	325.3
30°	372.3	370.1	363.0	353.2	359.0	368.8	370.5	377.6	378.1	379.0	357.2
32.5°	408.3	404.7	392.7	380.3	383.9	402.0	402.5	413.6	437.1	422.5	374.5
35°	433.1	428.7	410.5	403.8	421.6	450.4	454.4	477.0	478.8	425.6	373.2
37.5°	502.8	496.1	462.8	422.5	439.8	501.9	506.3	502.3	465.1	421.1	392.3
40°	596.0	589.8	560.0	492.1	443.3	452.6	454.9	466.8	473.9	452.2	453.5
42.5°	717.1	709.1	678.5	595.5	498.8	464.6	469.1	493.5	540.1	550.3	602.6
45°	840.9	836.5	805.4	715.8	600.0	546.3	548.5	578.2	661.6	726.0	770.4
47.5°	962.1	963.0	936.3	860.4	747.3	687.8	685.2	723.8	829.4	875.1	920.4
50°	1132.9	1132.0	1084.5	1037.5	949.2	878.6	874.2	895.9	997.6	1014.4	1084.5
52.5°	1327.3	1326.4	1254.9	1232.8	1195.5	1081.9	1093.9	1075.2	1148.4	1178.6	1278.0
55°	1419.6	1411.6	1381.4	1409.4	1453.8	1339.7	1337.9	1266.9	1324.2	1349.9	1442.7
57.5°	1410.3	1413.4	1442.2	1535.0	1680.5	1585.1	1587.8	1456.0	1489.3	1505.2	1573.1
60°	1357.5	1359.7	1426.7	1581.1	1793.7	1777.3	1767.9	1632.6	1610.8	1604.2	1636.6
62.5°	1206.6	1207.5	1316.2	1514.5	1792.8	1888.2	1879.3	1756.8	1688.9	1646.3	1587.3
64°	1042.4	1059.3	1192.4	1416.5	1744.4	1907.7	1902.8	1787.0	1696.0	1617.9	1496.8
65°	907.5	932.8	1093.9	1329.5	1689.8	1901.1	1895.3	1781.7	1686.3	1564.7	1403.2
67.5°	619.0	632.4	777.0	1046.4	1481.7	1807.4	1805.7	1713.3	1580.2	1351.7	1101.0
70°	365.2	375.0	481.9	730.4	1138.7	1552.7	1576.2	1542.9	1311.7	970.9	701.1
72.5°	113.6	119.4	212.6	405.6	746.4	1209.7	1240.3	1216.3	955.0	606.6	388.7
75°	42.6	44.4	70.1	176.2	371.4	773.5	782.8	810.7	581.8	320.4	170.0
77.5°	23.5	24.0	34.6	66.1	163.3	379.9	388.7	385.2	309.3	151.3	54.1
80°	11.5	12.0	16.9	29.3	63.5	107.4	127.4	168.2	109.2	74.6	17.3
82.5°	4.0	3.6	7.5	13.3	21.3	28.8	32.4	46.6	45.7	40.8	6.2
85°	0.0	0.0	0.4	0.4	0.4	0.9	0.9	5.8	11.5	13.3	1.8
87.5°	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	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°	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3
2.5°	206.3	205.5	202.4	199.2	197.0	194.4	193.9	192.1	191.7	191.7	191.7
5°	208.6	205.9	200.1	195.3	190.8	186.8	185.0	183.3	181.9	181.5	181.5
7.5°	213.4	209.5	200.1	193.0	186.4	181.5	178.8	177.1	175.7	175.7	175.7
10°	220.5	214.3	202.8	193.0	185.0	178.8	174.8	172.2	170.4	170.0	170.4
12.5°	229.4	221.4	207.2	195.3	185.9	177.9	169.5	154.0	143.8	138.0	137.1
15°	237.9	228.5	212.1	198.4	187.3	169.5	138.9	114.9	99.0	94.1	93.2
17.5°	247.2	237.4	218.8	202.8	182.4	136.7	99.0	79.0	75.9	76.8	76.8
20°	258.7	247.2	225.9	207.2	157.1	97.2	72.3	69.7	70.6	72.3	72.3
22.5°	272.0	259.6	235.6	204.6	119.8	71.0	66.1	66.6	67.5	69.2	69.2
25°	289.3	276.5	246.3	184.6	83.4	62.1	62.6	63.0	64.3	66.1	66.6
27.5°	315.1	299.5	259.2	154.9	63.0	57.7	58.1	59.5	60.8	63.0	63.0
30°	342.6	323.5	270.7	119.4	55.0	52.8	53.3	54.6	56.8	58.6	59.5
32.5°	354.6	337.7	272.9	81.7	51.0	48.8	47.9	49.3	51.0	52.8	53.3
35°	361.2	354.1	262.3	59.0	47.9	45.3	43.5	43.0	43.5	44.8	44.8
37.5°	394.1	389.2	241.0	50.6	44.8	42.2	39.5	37.3	36.4	35.9	36.4
40°	457.1	446.4	213.0	46.6	42.2	39.1	35.5	32.0	28.8	27.5	27.5
42.5°	596.0	542.3	173.1	43.9	39.5	35.9	30.6	25.7	22.2	21.3	21.3
45°	745.5	661.2	130.0	41.7	36.8	32.4	25.7	20.4	17.3	16.4	16.4
47.5°	889.3	749.1	91.0	39.1	33.7	28.4	21.3	16.4	14.2	13.8	13.8
50°	1040.2	825.4	63.5	35.9	30.6	24.4	17.3	13.3	12.0	12.0	12.0
52.5°	1187.1	881.7	46.6	32.8	26.6	20.4	14.6	12.0	11.1	11.1	11.1
55°	1298.0	903.5	35.5	28.8	22.6	17.3	13.3	11.5	10.7	10.2	10.2
57.5°	1372.1	885.3	28.8	24.0	19.1	15.1	12.0	10.7	9.8	9.3	9.3
60°	1370.3	824.9	23.1	19.5	15.5	12.9	11.1	9.8	8.9	8.4	8.4
62.5°	1290.0	726.9	18.2	15.5	12.9	11.1	9.8	8.9	8.0	7.5	7.1
64°	1211.5	666.1	15.5	13.3	11.5	10.2	8.9	8.0	7.1	6.2	6.2
65°	1126.3	608.4	14.2	12.0	10.2	9.3	8.4	7.5	6.2	5.3	5.3
67.5°	856.5	450.4	11.5	9.3	8.0	7.5	6.7	5.8	4.4	3.6	3.6
70°	556.0	291.5	9.8	7.5	6.7	6.7	6.2	4.9	3.6	3.1	2.7
72.5°	284.9	145.1	8.0	6.2	5.8	5.8	5.3	4.0	3.1	2.7	2.2
75°	120.7	59.0	6.7	5.3	4.9	4.4	4.0	3.6	2.7	2.2	2.2
77.5°	42.2	22.2	6.2	5.3	4.0	3.6	3.6	3.6	3.6	3.1	2.7
80°	14.2	8.4	4.0	4.0	4.4	4.9	4.9	4.4	4.9	4.0	3.1
82.5°	5.8	3.1	1.3	1.8	3.1	3.6	4.0	4.0	4.0	3.1	2.7
85°	1.3	0.9	0.9	1.3	1.3	1.8	1.8	2.2	2.2	1.8	1.8
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.3	0.9	1.3	1.3	1.3
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)