

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: P400950

Luminaire Tested: **ENT-SA1A-740-U-SL3-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P400950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1A-740-U-SL3-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 4000K, 350mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2290 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

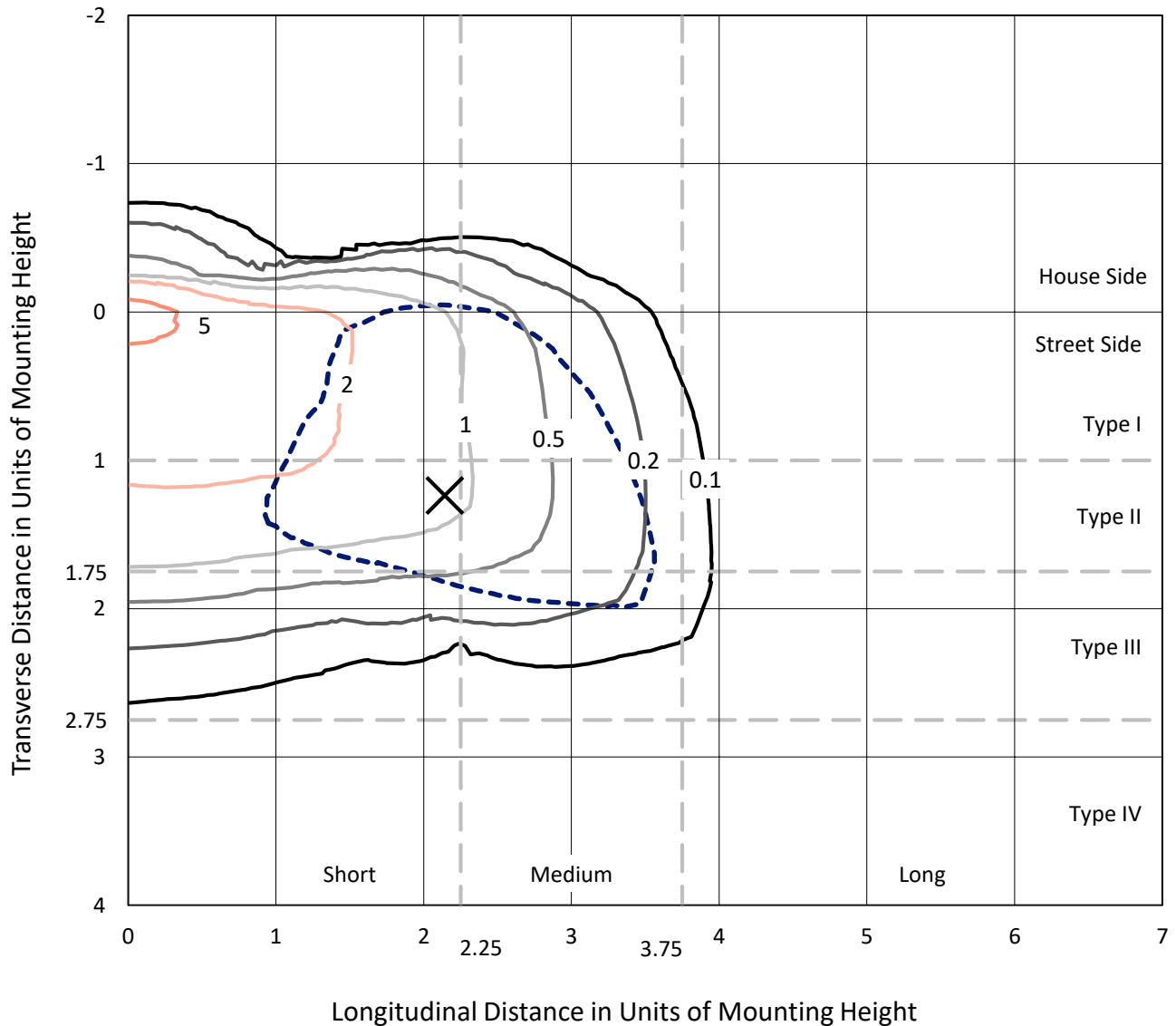
Input Watts (W): 20.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

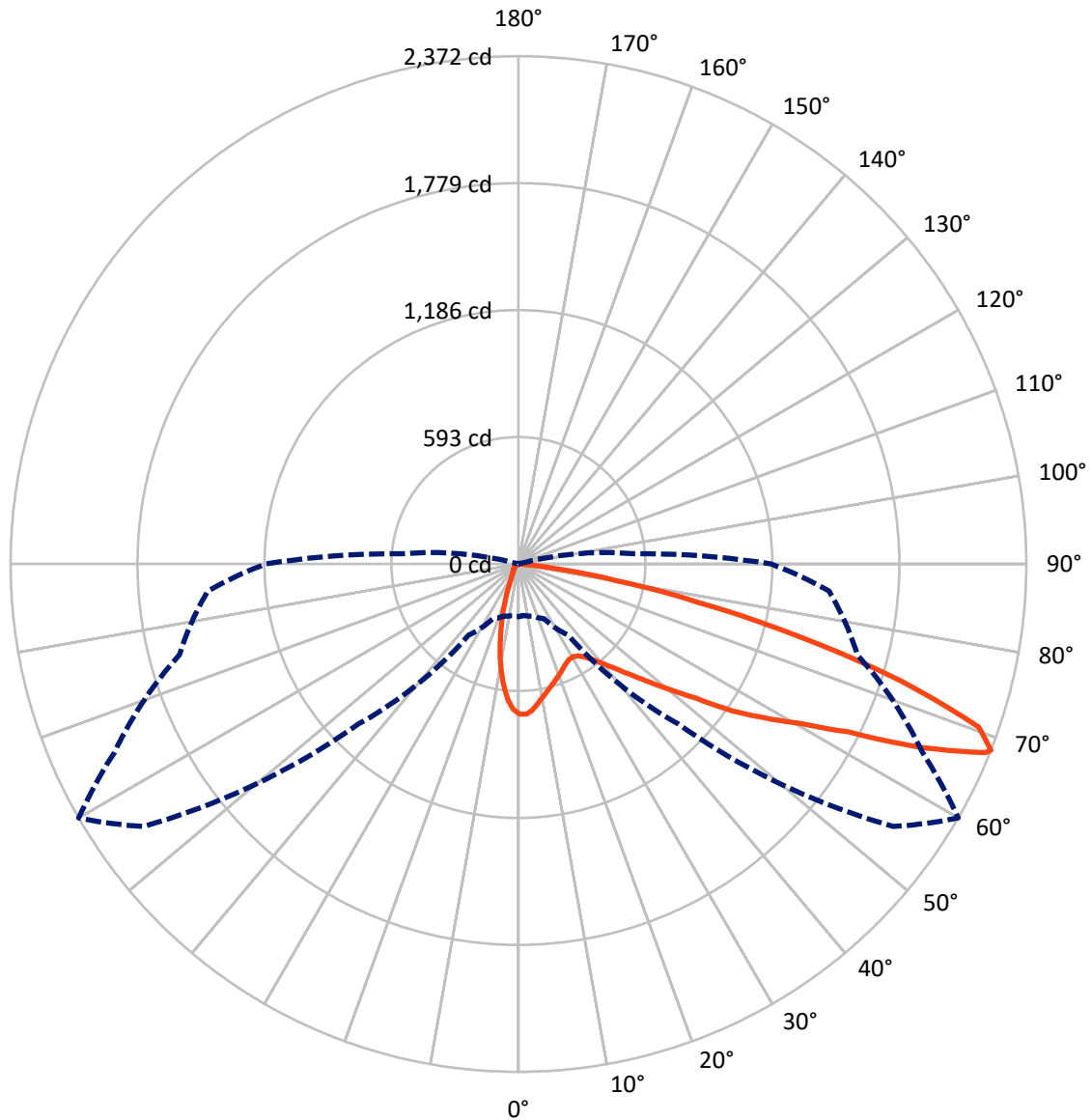
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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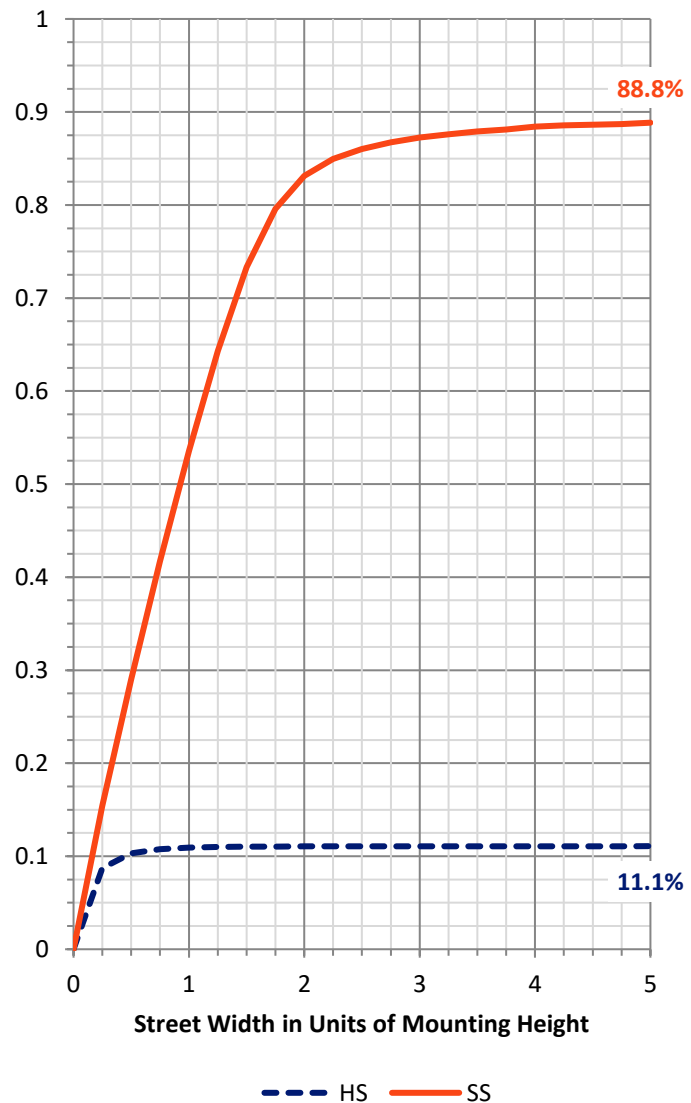
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	256.0	0.0	256.0
	% Fixture	11.2	0.0	11.2
Street Side	Lumens	2034.0	0.0	2034.0
	% Fixture	88.8	0.0	88.8
Total	Lumens	2290.0	0.0	2290.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	2.5
10°-20°	116.0	5.1
20°-30°	152.7	6.7
30°-40°	210.8	9.2
40°-50°	319.5	14.0
50°-60°	515.6	22.5
60°-70°	612.5	26.7
70°-80°	288.7	12.6
80°-90°	17.3	0.8
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°	2290.0	100.0
0°-180°	2290.0	100.0



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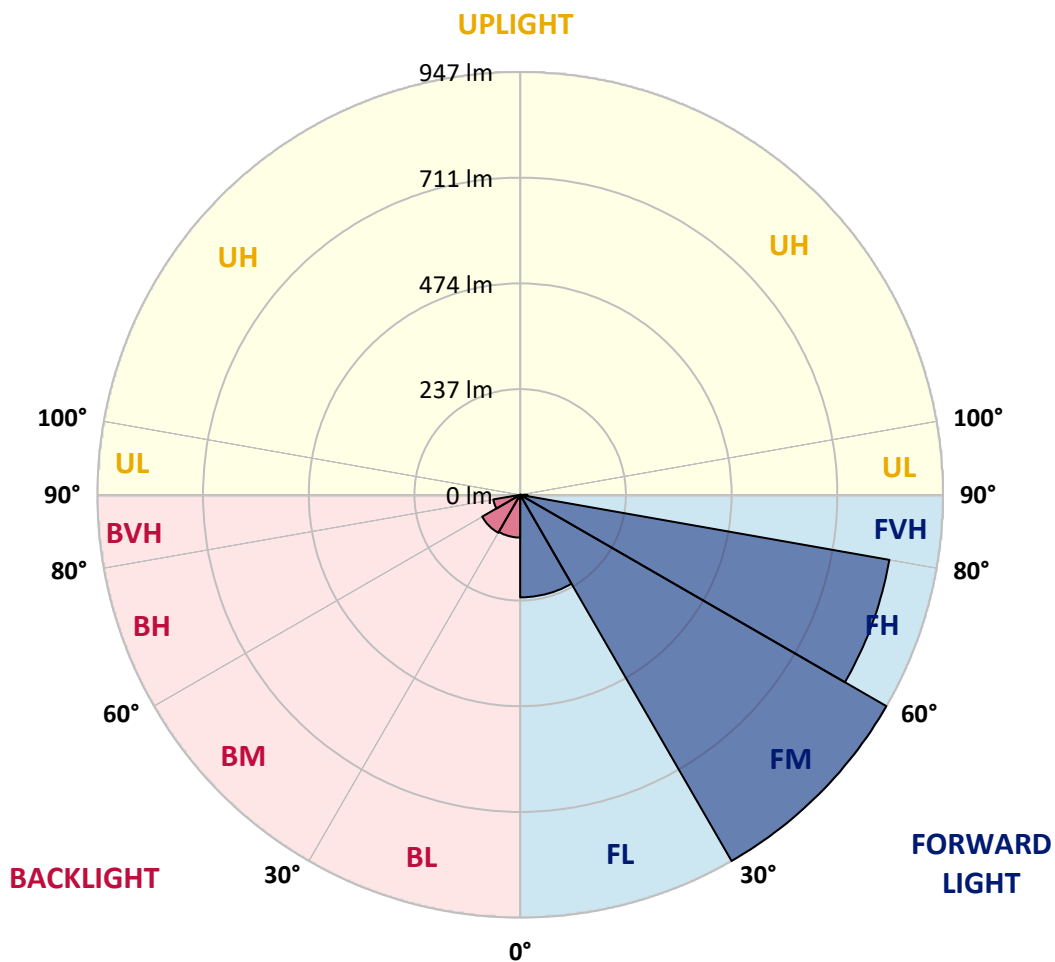
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	229.8	10.0			
FM	(30°-60°)	947.5	41.4			
FH	(60°-80°)	840.1	36.7			G1/1800
FVH	(80°-90°)	16.5	0.7			G1/100
BL	(0°-30°)	95.8	4.2	B0/110		
BM	(30°-60°)	98.4	4.3	B0/220		
BH	(60°-80°)	61.1	2.7	B0/110		G0/110
BVH	(80°-90°)	0.7	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°	55°	60°	65°	75°	85°
0°	700.9	700.9	700.9	700.9	700.9	700.9	700.9	700.9	700.9	700.9	700.9
2.5°	694.7	693.2	697.4	698.6	699.8	702.1	701.7	702.1	702.5	701.7	697.1
5°	647.3	650.0	653.9	659.0	664.0	675.7	680.4	685.0	688.1	690.5	686.2
7.5°	600.7	606.1	609.2	618.6	626.3	638.4	648.5	656.6	664.4	673.0	668.7
10°	563.4	565.3	568.1	576.6	588.3	606.5	619.7	629.8	639.2	653.5	650.0
12.5°	526.9	528.0	533.5	542.8	554.8	577.4	594.9	606.5	617.0	634.9	635.3
15°	500.1	500.5	503.9	512.5	526.5	550.6	573.1	585.9	600.7	622.5	623.6
17.5°	482.6	482.2	483.0	488.4	501.6	524.5	551.7	566.9	584.4	612.4	613.5
20°	477.1	476.4	474.8	473.6	481.8	501.6	532.3	549.0	569.6	605.0	605.4
22.5°	481.8	480.2	476.8	470.1	472.5	485.3	510.9	531.1	556.4	601.1	598.4
25°	493.1	493.1	488.4	477.9	472.5	475.2	495.8	515.2	543.2	599.1	593.3
27.5°	511.7	510.9	504.7	493.8	483.7	476.4	486.5	504.7	533.5	601.5	591.0
30°	534.3	531.9	525.3	517.5	505.1	489.2	488.4	502.0	528.8	608.9	592.5
32.5°	555.6	555.6	552.9	545.5	533.5	512.5	500.5	511.3	534.6	620.9	597.6
35°	582.0	581.7	582.4	579.7	569.2	547.1	527.7	533.1	552.5	641.1	609.6
37.5°	603.0	603.4	610.0	614.7	610.0	586.7	566.5	566.5	582.8	671.4	630.2
40°	623.6	624.4	636.8	650.4	651.6	632.9	613.5	613.1	622.5	708.7	662.1
42.5°	642.3	645.4	663.3	686.6	700.2	687.7	673.4	668.7	673.4	765.1	713.8
45°	662.1	668.3	693.2	727.0	749.1	749.5	744.1	738.6	741.0	828.4	782.9
47.5°	687.7	694.7	725.8	767.4	809.3	820.2	825.3	823.3	817.1	908.4	872.3
50°	729.3	735.9	765.1	811.7	869.2	908.4	922.0	924.4	916.2	997.0	973.7
52.5°	800.0	803.9	831.1	868.0	932.5	1006.0	1041.7	1042.1	1023.8	1100.8	1083.3
55°	875.8	885.9	917.8	960.5	1026.9	1109.3	1198.7	1208.4	1152.0	1191.7	1163.3
57.5°	877.0	886.7	939.5	1021.5	1160.6	1269.8	1349.4	1356.4	1293.9	1264.7	1238.7
60°	784.5	789.5	863.0	983.0	1208.4	1486.2	1521.2	1510.7	1393.3	1340.1	1333.1
62.5°	553.7	556.0	643.0	801.2	1102.7	1589.6	1782.7	1726.3	1534.8	1451.2	1474.5
65°	348.5	347.4	383.5	509.8	820.2	1487.8	2105.9	2064.8	1794.7	1590.3	1584.9
67.5°	257.2	251.0	260.7	300.0	468.6	1168.0	2165.4	2351.1	2042.2	1648.2	1489.3
68°	246.7	241.3	251.4	281.7	405.3	1057.2	2136.6	2371.7	2081.5	1638.9	1456.7
70°	209.4	204.4	212.9	235.8	282.1	686.2	1885.2	2280.4	2117.2	1559.6	1283.8
72.5°	148.8	151.5	174.1	202.4	239.0	352.0	1388.3	1872.8	1821.1	1387.1	976.8
75°	88.2	93.3	122.8	163.2	219.5	232.4	895.6	1361.5	1336.2	960.5	529.2
77.5°	31.1	33.0	61.0	108.8	181.1	184.2	498.9	856.0	796.1	392.4	156.2
80°	11.3	11.3	22.5	60.6	117.0	140.7	265.0	456.9	314.3	101.8	43.1
82.5°	1.9	1.9	5.1	20.6	51.7	75.0	123.2	162.4	93.3	22.5	21.4
85°	0.0	0.0	0.0	0.0	0.8	0.8	36.1	36.5	17.1	3.1	9.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.8	0.8	0.8	1.2
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°	700.9	700.9	700.9	700.9	700.9	700.9	700.9	700.9	700.9	700.9	700.9
2.5°	695.1	694.3	690.1	682.3	675.7	664.8	662.9	652.4	648.5	645.4	648.5
5°	683.1	678.8	664.4	646.9	623.2	595.3	578.9	556.4	551.7	539.3	546.7
7.5°	663.3	653.5	626.7	589.0	545.5	502.8	470.1	438.7	411.9	402.5	399.8
10°	642.3	628.7	583.6	525.3	462.4	396.7	348.1	302.7	277.4	253.7	252.9
12.5°	622.5	601.9	536.6	455.4	367.6	289.5	226.5	178.7	148.8	132.5	136.8
15°	606.5	578.9	489.2	385.4	274.3	186.5	128.2	97.5	87.0	82.0	82.8
17.5°	591.0	554.5	443.3	312.4	195.4	115.0	83.1	72.7	69.6	68.4	67.6
20°	577.0	530.8	395.2	246.3	129.0	79.7	68.4	64.9	63.7	62.9	62.9
22.5°	563.0	505.9	347.0	182.6	88.2	65.3	61.4	59.8	59.1	57.9	57.9
25°	550.2	481.8	298.8	127.8	67.6	58.3	55.6	54.0	52.5	51.3	51.3
27.5°	540.5	463.5	254.1	90.5	56.7	52.5	49.7	47.0	45.1	43.5	43.5
30°	534.3	445.7	211.0	68.4	50.5	46.6	43.1	39.6	36.5	34.6	34.2
32.5°	530.8	430.9	171.0	56.0	45.1	40.8	36.5	32.6	29.1	26.8	26.8
35°	532.3	419.2	130.9	47.4	40.8	35.7	31.1	26.4	23.3	21.4	21.0
37.5°	542.4	412.6	97.5	42.0	36.5	31.1	26.4	21.8	18.7	17.1	16.7
40°	561.5	414.2	74.2	38.1	33.4	27.2	21.8	17.9	15.2	13.6	13.6
42.5°	599.9	425.5	58.7	35.0	29.9	23.3	18.3	14.8	12.4	11.3	10.9
45°	650.8	446.8	48.2	32.2	26.4	19.8	15.5	12.4	10.1	8.9	8.9
47.5°	727.8	481.0	41.6	29.5	22.9	16.7	12.8	10.1	7.8	7.0	6.6
50°	816.7	528.8	36.5	26.4	20.2	14.0	10.9	7.8	6.2	5.1	5.1
52.5°	907.7	582.0	33.0	23.7	17.5	12.0	8.5	5.8	4.3	3.5	3.5
55°	991.2	626.7	29.5	21.4	14.8	10.1	7.0	4.7	3.1	2.3	2.3
57.5°	1072.0	667.5	25.6	18.7	12.0	8.2	5.4	3.5	2.3	1.6	1.6
60°	1173.4	720.4	22.1	15.9	9.7	6.6	4.3	2.7	1.6	1.2	0.8
62.5°	1295.8	758.8	18.7	12.8	7.8	5.1	3.1	1.9	1.2	0.4	0.4
65°	1340.9	707.9	15.5	10.5	6.2	3.9	2.3	1.6	0.8	0.4	0.4
67.5°	1215.0	570.4	12.4	8.2	4.7	2.7	1.9	1.2	0.8	0.4	0.4
68°	1180.0	542.4	12.0	7.8	4.3	2.7	1.6	1.2	0.4	0.4	0.0
70°	996.2	435.6	9.7	5.8	3.5	2.3	1.6	0.8	0.4	0.4	0.0
72.5°	738.6	300.3	7.0	3.9	2.3	1.6	1.2	0.8	0.4	0.4	0.0
75°	389.7	117.0	5.4	3.1	1.9	1.6	1.2	1.2	0.8	0.4	0.4
77.5°	111.9	36.9	4.3	2.3	1.9	1.9	1.9	1.6	1.6	1.2	0.8
80°	32.6	12.0	2.7	1.6	1.9	1.9	2.3	1.9	1.9	1.6	1.6
82.5°	17.5	4.7	1.6	1.2	1.2	1.6	1.9	1.6	1.2	0.8	0.4
85°	7.4	1.6	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4
87.5°	0.4	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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)