

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: P400893

Luminaire Tested: **ENT-SA1A-727-U-SL3-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P400893
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-727-U-SL3-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K, 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: 1915 lumens
Efficiency: N/A
Efficacy: 95.3 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

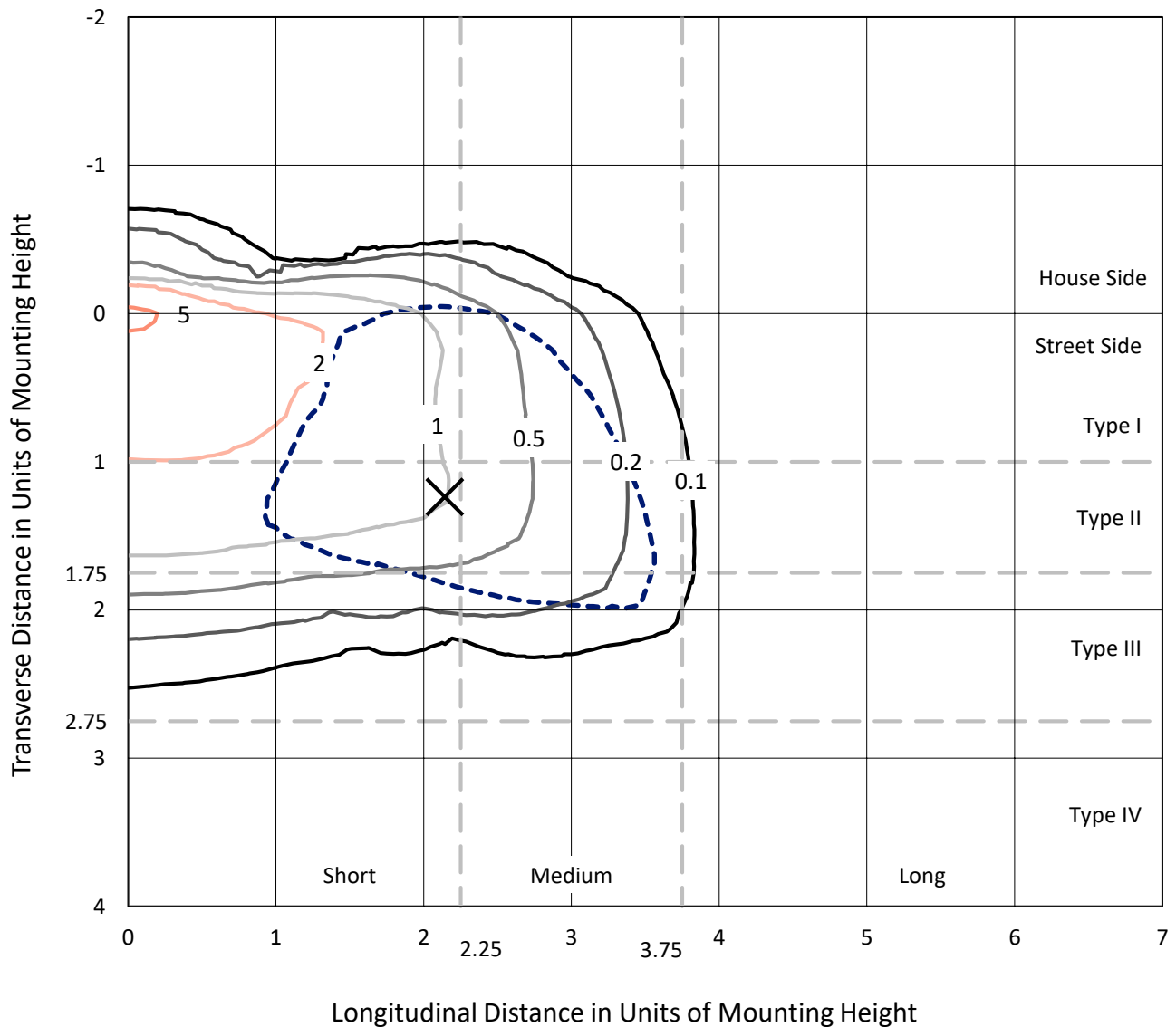


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

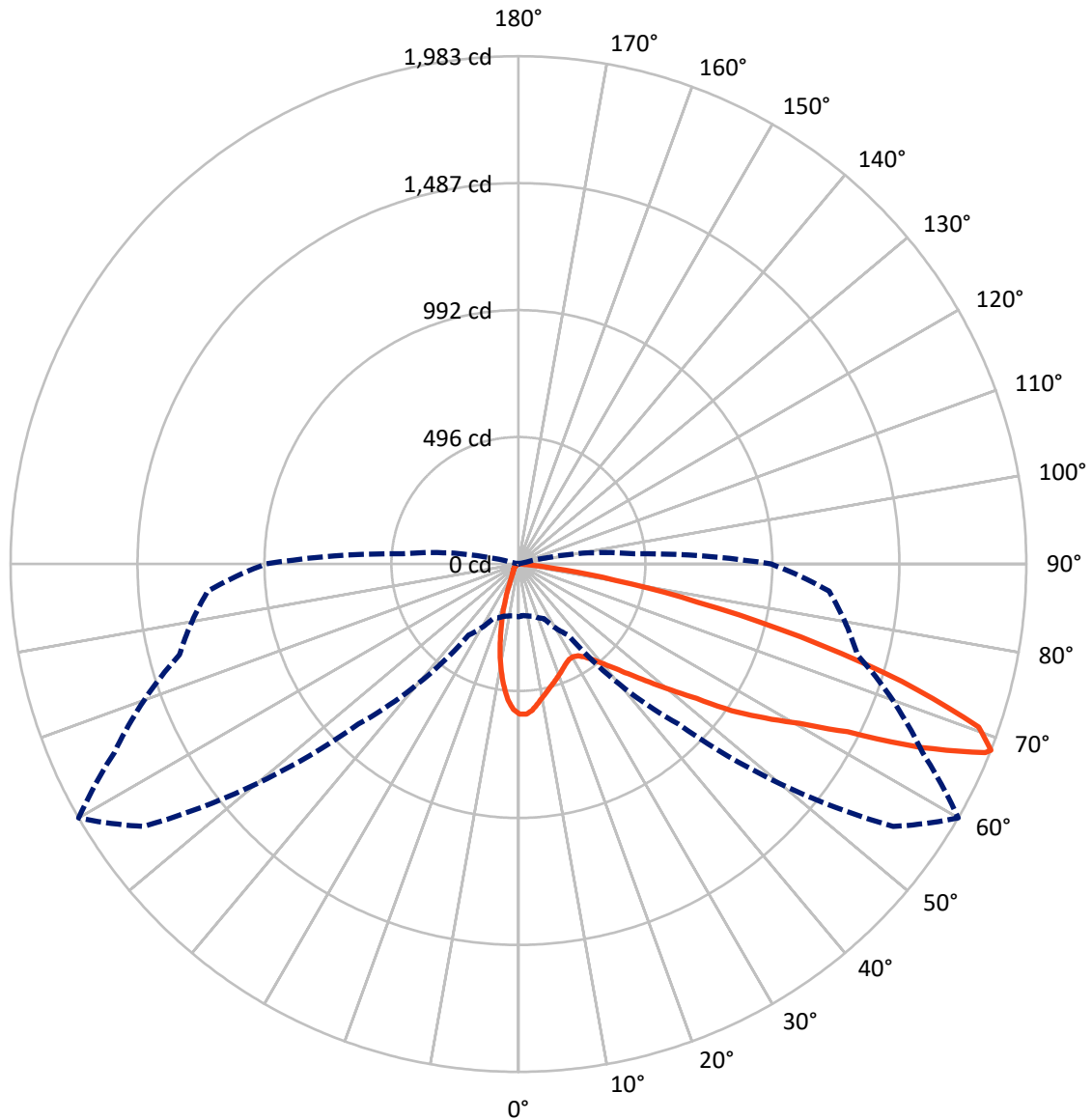


Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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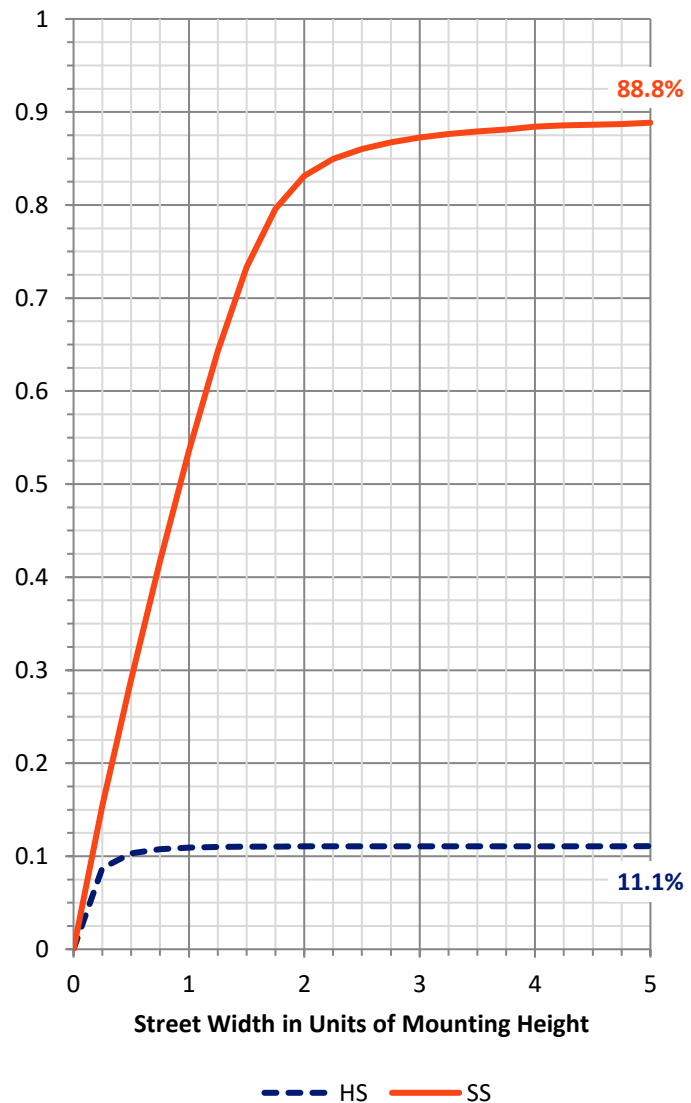
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	214.1	0.0	214.1
	% Fixture	11.2	0.0	11.2
Street Side	Lumens	1700.9	0.0	1700.9
	% Fixture	88.8	0.0	88.8
Total	Lumens	1915.0	0.0	1915.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	2.5
10°-20°	97.0	5.1
20°-30°	127.7	6.7
30°-40°	176.3	9.2
40°-50°	267.2	14.0
50°-60°	431.2	22.5
60°-70°	512.2	26.7
70°-80°	241.4	12.6
80°-90°	14.4	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°	1915.0	100.0
0°-180°	1915.0	100.0



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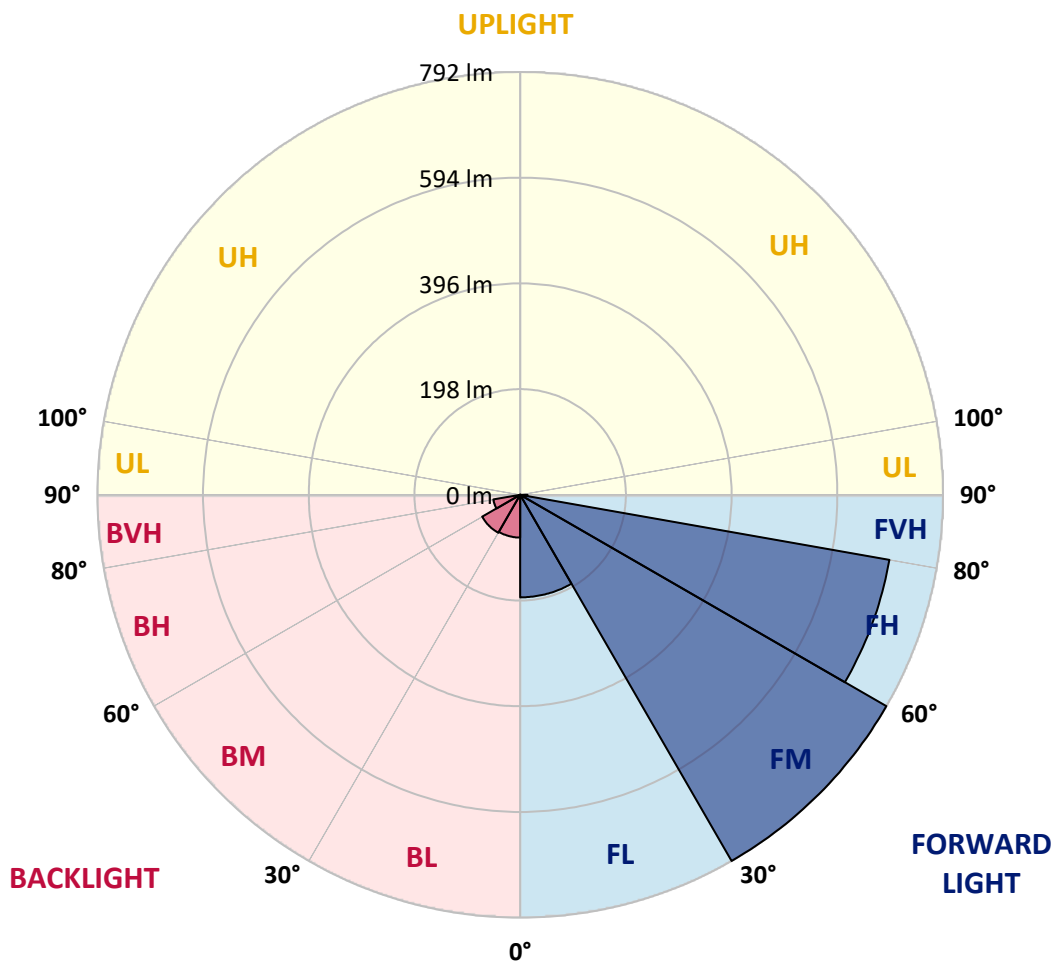
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	192.2	10.0			
FM	(30°-60°)	792.3	41.4			
FH	(60°-80°)	702.5	36.7			G1/1800
FVH	(80°-90°)	13.8	0.7			G1/100
BL	(0°-30°)	80.1	4.2	B0/110		
BM	(30°-60°)	82.3	4.3	B0/220		
BH	(60°-80°)	51.1	2.7	B0/110		G0/110
BVH	(80°-90°)	0.6	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°	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2
2.5°	581.0	579.7	583.2	584.2	585.2	587.1	586.8	587.1	587.5	586.8	582.9
5°	541.3	543.6	546.8	551.1	555.3	565.0	568.9	572.8	575.4	577.4	573.8
7.5°	502.3	506.9	509.5	517.3	523.8	533.8	542.3	549.1	555.6	562.8	559.2
10°	471.1	472.8	475.0	482.2	491.9	507.2	518.3	526.7	534.5	546.5	543.6
12.5°	440.6	441.6	446.1	453.9	464.0	482.8	497.5	507.2	516.0	530.9	531.2
15°	418.2	418.5	421.4	428.6	440.3	460.4	479.3	490.0	502.3	520.5	521.5
17.5°	403.6	403.2	403.9	408.4	419.5	438.6	461.4	474.1	488.7	512.1	513.1
20°	399.0	398.4	397.1	396.1	402.9	419.5	445.1	459.1	476.3	505.9	506.2
22.5°	402.9	401.6	398.7	393.2	395.1	405.8	427.3	444.2	465.3	502.7	500.4
25°	412.3	412.3	408.4	399.7	395.1	397.4	414.6	430.8	454.2	501.0	496.2
27.5°	427.9	427.3	422.1	413.0	404.5	398.4	406.8	422.1	446.1	503.0	494.2
30°	446.8	444.8	439.3	432.8	422.4	409.1	408.4	419.8	442.2	509.2	495.5
32.5°	464.6	464.6	462.4	456.2	446.1	428.6	418.5	427.6	447.1	519.2	499.7
35°	486.7	486.4	487.1	484.8	476.0	457.5	441.2	445.8	462.0	536.1	509.8
37.5°	504.3	504.6	510.1	514.0	510.1	490.6	473.7	473.7	487.4	561.5	527.0
40°	521.5	522.2	532.5	543.9	544.9	529.3	513.1	512.7	520.5	592.7	553.7
42.5°	537.1	539.7	554.6	574.1	585.5	575.1	563.1	559.2	563.1	639.8	596.9
45°	553.7	558.9	579.7	607.9	626.5	626.8	622.2	617.7	619.6	692.7	654.7
47.5°	575.1	581.0	607.0	641.7	676.8	685.9	690.1	688.5	683.3	759.7	729.5
50°	609.9	615.4	639.8	678.8	726.9	759.7	771.0	773.0	766.2	833.8	814.3
52.5°	669.0	672.3	695.0	725.9	779.8	841.2	871.1	871.4	856.2	920.5	905.9
55°	732.4	740.8	767.5	803.2	858.8	927.7	1002.4	1010.5	963.4	996.5	972.8
57.5°	733.3	741.5	785.7	854.2	970.5	1061.8	1128.5	1134.3	1082.0	1057.6	1035.9
60°	656.0	660.2	721.7	822.1	1010.5	1242.8	1272.1	1263.3	1165.2	1120.7	1114.8
62.5°	463.0	465.0	537.7	670.0	922.1	1329.3	1490.7	1443.6	1283.4	1213.6	1233.1
65°	291.5	290.5	320.7	426.3	685.9	1244.1	1761.1	1726.6	1500.8	1329.9	1325.4
67.5°	215.1	209.9	218.0	250.8	391.9	976.7	1810.8	1966.1	1707.8	1378.3	1245.4
68°	206.3	201.8	210.2	235.6	338.9	884.1	1786.7	1983.3	1740.6	1370.5	1218.1
70°	175.1	170.9	178.1	197.2	235.9	573.8	1576.5	1907.0	1770.5	1304.2	1073.5
72.5°	124.4	126.7	145.6	169.3	199.8	294.4	1160.9	1566.1	1522.9	1160.0	816.9
75°	73.8	78.0	102.7	136.5	183.6	194.3	748.9	1138.5	1117.4	803.2	442.5
77.5°	26.0	27.6	51.0	91.0	151.4	154.0	417.2	715.8	665.8	328.2	130.6
80°	9.4	9.4	18.8	50.7	97.8	117.6	221.6	382.1	262.9	85.1	36.1
82.5°	1.6	1.6	4.2	17.2	43.2	62.7	103.0	135.8	78.0	18.8	17.9
85°	0.0	0.0	0.0	0.0	0.6	0.6	30.2	30.5	14.3	2.6	7.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.6	0.6	0.6	1.0
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°	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2
2.5°	581.3	580.6	577.1	570.6	565.0	555.9	554.3	545.5	542.3	539.7	542.3
5°	571.2	567.6	555.6	541.0	521.2	497.8	484.1	465.3	461.4	451.0	457.2
7.5°	554.6	546.5	524.1	492.6	456.2	420.4	393.2	366.8	344.4	336.6	334.3
10°	537.1	525.7	488.0	439.3	386.7	331.7	291.1	253.1	232.0	212.2	211.5
12.5°	520.5	503.3	448.7	380.8	307.4	242.1	189.4	149.5	124.4	110.8	114.4
15°	507.2	484.1	409.1	322.3	229.4	156.0	107.2	81.6	72.8	68.6	69.2
17.5°	494.2	463.7	370.7	261.2	163.4	96.2	69.5	60.8	58.2	57.2	56.5
20°	482.5	443.8	330.4	206.0	107.9	66.6	57.2	54.3	53.3	52.6	52.6
22.5°	470.8	423.0	290.2	152.7	73.8	54.6	51.3	50.0	49.4	48.4	48.4
25°	460.1	402.9	249.9	106.9	56.5	48.7	46.5	45.2	43.9	42.9	42.9
27.5°	452.0	387.6	212.5	75.7	47.4	43.9	41.6	39.3	37.7	36.4	36.4
30°	446.8	372.7	176.4	57.2	42.2	39.0	36.1	33.1	30.5	28.9	28.6
32.5°	443.8	360.3	143.0	46.8	37.7	34.1	30.5	27.3	24.4	22.4	22.4
35°	445.1	350.6	109.5	39.6	34.1	29.9	26.0	22.1	19.5	17.9	17.5
37.5°	453.6	345.1	81.6	35.1	30.5	26.0	22.1	18.2	15.6	14.3	14.0
40°	469.5	346.4	62.1	31.8	27.9	22.7	18.2	14.9	12.7	11.4	11.4
42.5°	501.7	355.8	49.1	29.2	25.0	19.5	15.3	12.3	10.4	9.4	9.1
45°	544.2	373.7	40.3	27.0	22.1	16.6	13.0	10.4	8.4	7.5	7.5
47.5°	608.6	402.3	34.8	24.7	19.2	14.0	10.7	8.4	6.5	5.8	5.5
50°	683.0	442.2	30.5	22.1	16.9	11.7	9.1	6.5	5.2	4.2	4.2
52.5°	759.0	486.7	27.6	19.8	14.6	10.1	7.1	4.9	3.6	2.9	2.9
55°	828.9	524.1	24.7	17.9	12.3	8.4	5.8	3.9	2.6	1.9	1.9
57.5°	896.5	558.2	21.4	15.6	10.1	6.8	4.5	2.9	1.9	1.3	1.3
60°	981.3	602.4	18.5	13.3	8.1	5.5	3.6	2.3	1.3	1.0	0.6
62.5°	1083.6	634.6	15.6	10.7	6.5	4.2	2.6	1.6	1.0	0.3	0.3
65°	1121.3	592.0	13.0	8.8	5.2	3.2	1.9	1.3	0.6	0.3	0.3
67.5°	1016.0	477.0	10.4	6.8	3.9	2.3	1.6	1.0	0.6	0.3	0.3
68°	986.8	453.6	10.1	6.5	3.6	2.3	1.3	1.0	0.3	0.3	0.0
70°	833.1	364.2	8.1	4.9	2.9	1.9	1.3	0.6	0.3	0.3	0.0
72.5°	617.7	251.2	5.8	3.2	1.9	1.3	1.0	0.6	0.3	0.3	0.0
75°	325.9	97.8	4.5	2.6	1.6	1.3	1.0	1.0	0.6	0.3	0.3
77.5°	93.6	30.9	3.6	1.9	1.6	1.6	1.6	1.3	1.3	1.0	0.6
80°	27.3	10.1	2.3	1.3	1.6	1.6	1.9	1.6	1.6	1.3	1.3
82.5°	14.6	3.9	1.3	1.0	1.0	1.3	1.6	1.3	1.0	0.6	0.3
85°	6.2	1.3	1.0	0.6	0.6	0.6	0.6	0.6	0.6	0.3	0.3
87.5°	0.3	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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)