

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: P401083

Luminaire Tested: **ENT-SA1B-727-U-T3-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1B-727-U-T3-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2203 lumens
Efficiency: N/A
Efficacy: 86.7 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

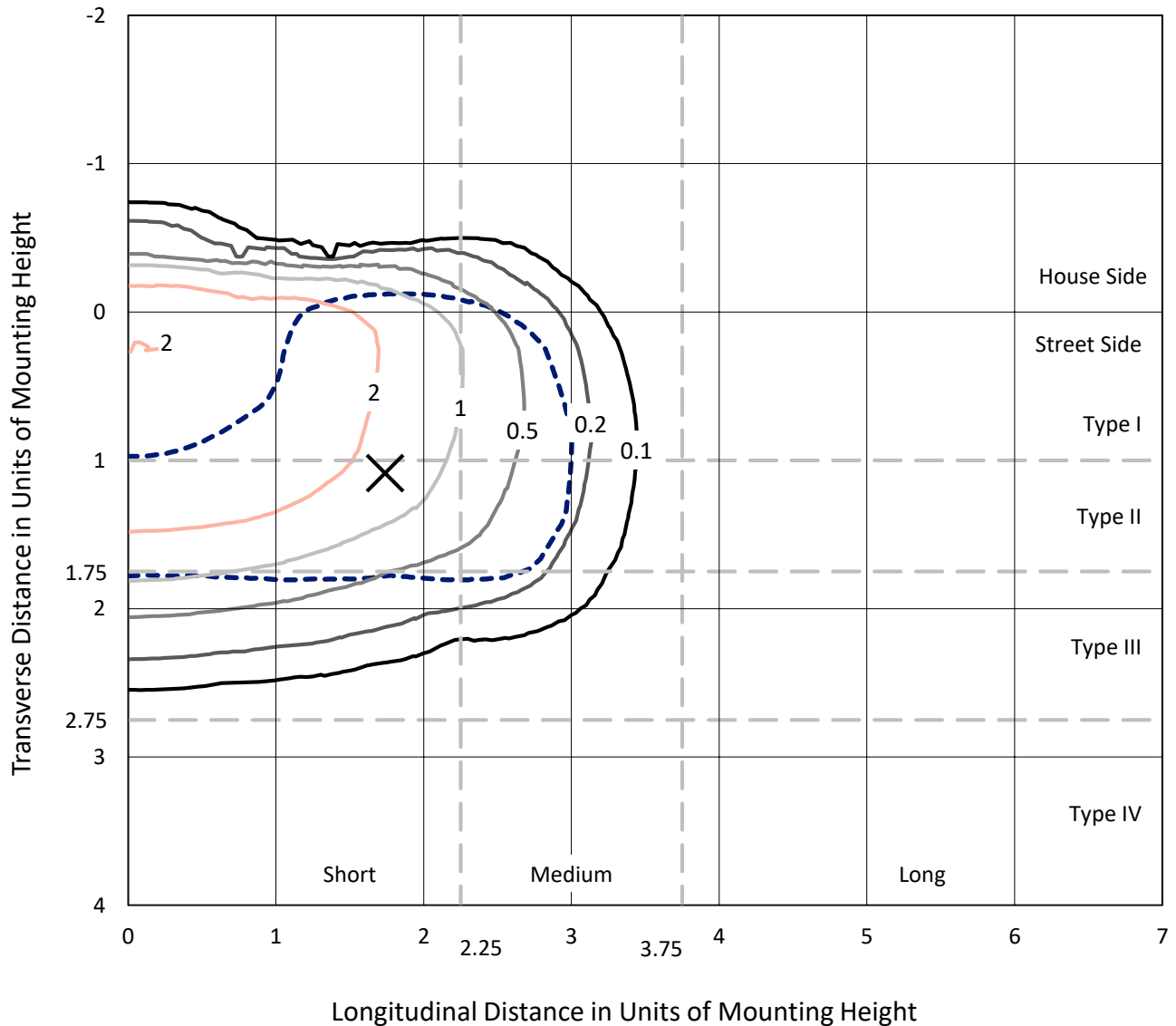


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

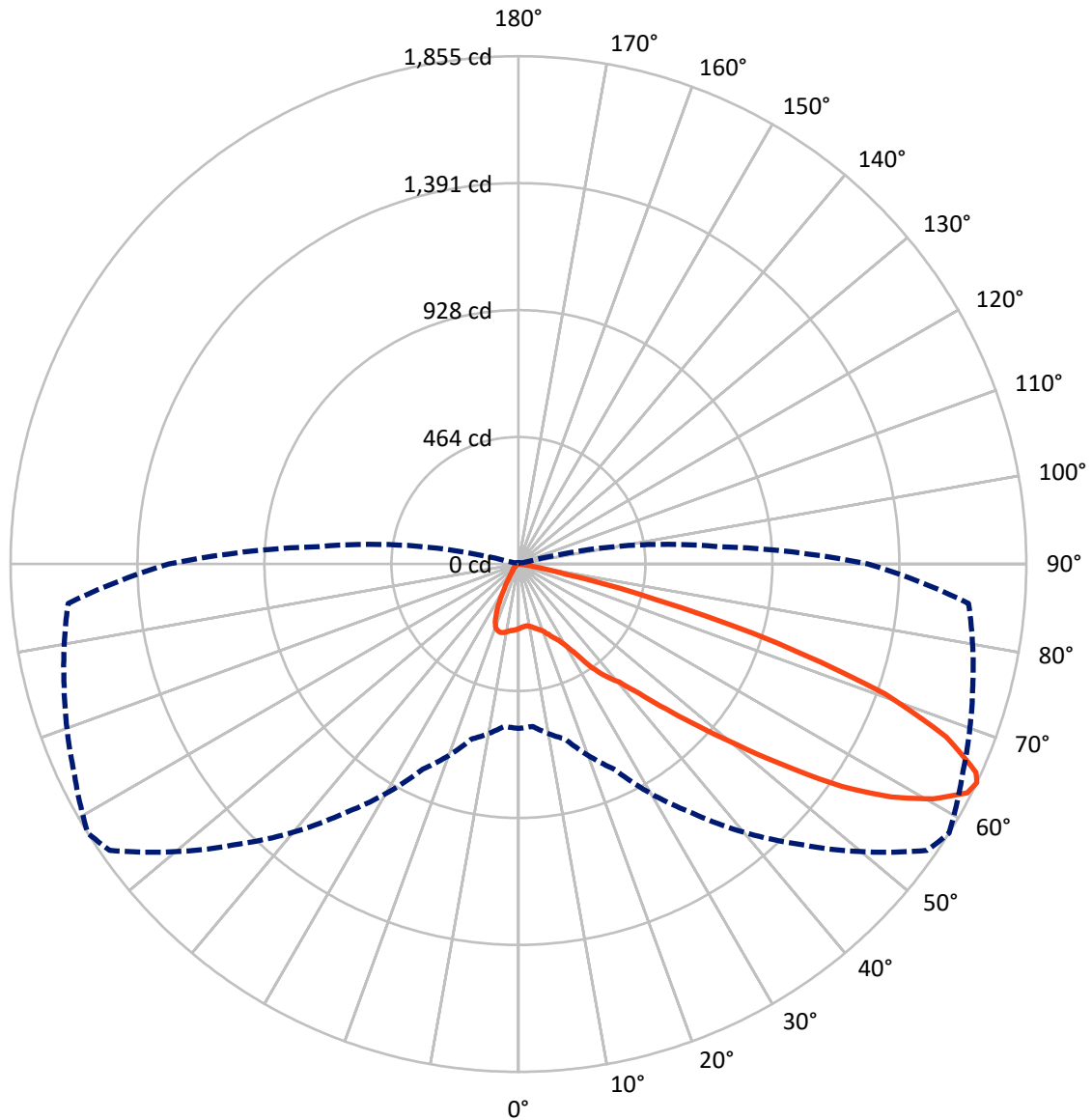


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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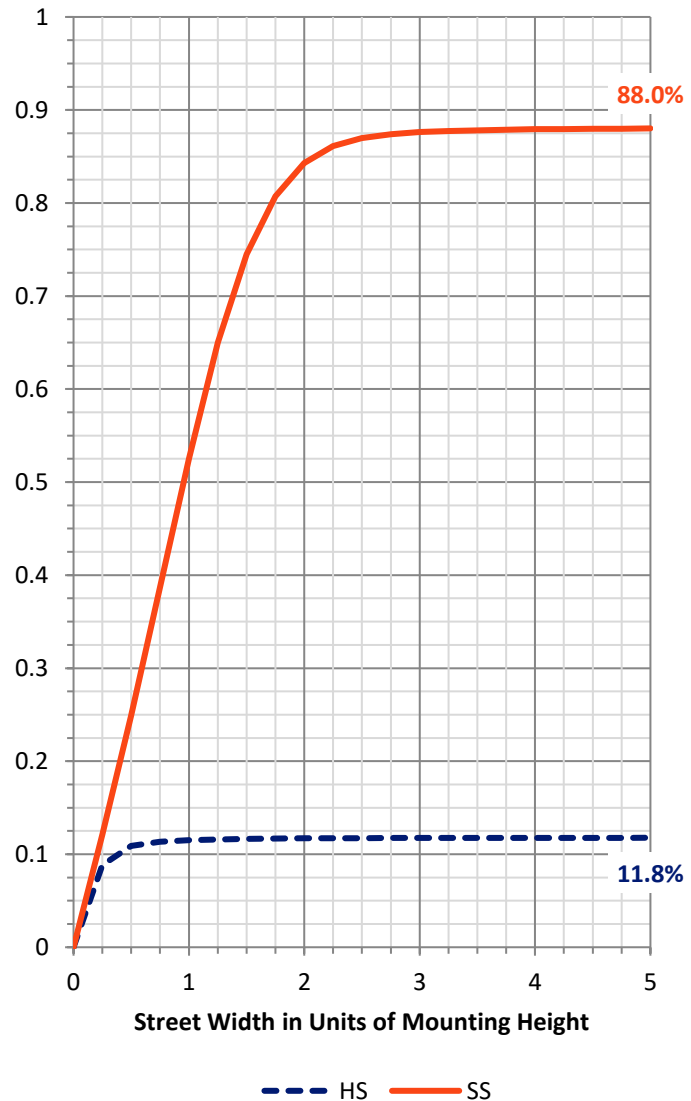
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	262.6	0.0	262.6
	% Fixture	11.9	0.0	11.9
Street Side	Lumens	1940.3	0.0	1940.3
	% Fixture	88.1	0.0	88.1
Total	Lumens	2203.0	0.0	2203.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.3	1.0
10°-20°	65.0	3.0
20°-30°	116.8	5.3
30°-40°	204.7	9.3
40°-50°	374.3	17.0
50°-60°	640.4	29.1
60°-70°	621.2	28.2
70°-80°	153.9	7.0
80°-90°	4.4	0.2
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°	2203.0	100.0
0°-180°	2203.0	100.0



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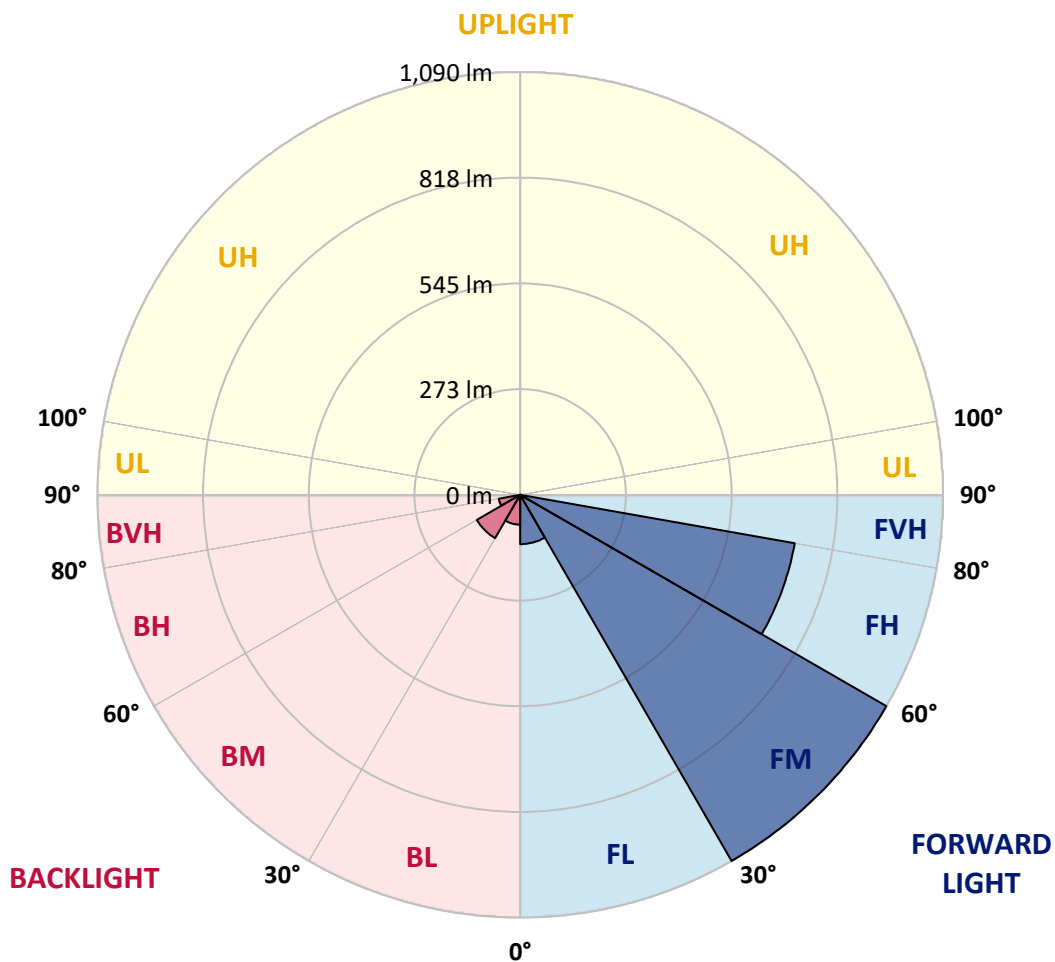
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	127.2	5.8			
FM	(30°-60°)	1090.4	49.5			
FH	(60°-80°)	719.0	32.6			G1/1800
FVH	(80°-90°)	3.7	0.2			G0/10
BL	(0°-30°)	76.9	3.5	B0/110		
BM	(30°-60°)	129.0	5.9	B0/220		
BH	(60°-80°)	56.1	2.5	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°	58°	65°	75°	85°
0°	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0
2.5°	226.2	226.2	227.0	227.4	228.6	229.9	231.5	231.9	232.7	234.8	235.6
5°	214.0	214.4	215.2	217.2	220.1	223.3	227.4	228.6	231.9	236.0	238.8
7.5°	209.1	209.5	210.7	213.2	216.8	221.7	226.6	228.2	232.7	239.2	243.3
10°	208.3	208.3	209.9	213.6	218.0	224.2	229.5	231.5	237.6	245.4	251.9
12.5°	208.3	208.3	210.3	214.8	220.1	227.8	235.2	238.0	244.9	254.7	262.9
15°	211.9	212.7	214.0	216.8	222.9	231.5	241.7	244.9	253.5	265.3	275.5
17.5°	238.0	237.2	233.1	229.5	228.2	235.6	247.8	252.3	264.9	280.0	291.0
20°	288.6	288.1	280.8	262.9	247.0	242.9	257.2	262.5	280.8	300.8	308.9
22.5°	349.7	351.7	340.3	316.3	283.7	262.9	271.0	278.4	302.0	326.0	330.9
25°	410.4	412.9	402.3	372.1	332.2	295.9	290.2	296.7	323.6	347.6	345.6
27.5°	482.1	480.1	469.5	435.3	388.8	340.3	315.9	317.1	337.9	364.8	358.2
30°	534.7	531.9	521.7	498.4	454.8	399.4	352.5	348.9	355.0	384.7	377.8
32.5°	582.8	584.8	577.1	546.1	505.0	460.1	407.6	397.8	395.3	420.6	409.2
35°	630.5	630.1	627.2	599.9	559.6	517.2	473.2	466.2	465.4	489.9	458.9
37.5°	687.6	684.7	679.4	651.7	619.5	579.1	532.3	521.3	519.2	524.1	487.9
40°	748.7	752.4	743.8	714.9	679.8	649.7	584.0	567.3	553.5	567.7	544.5
42.5°	839.6	842.4	827.3	807.4	762.1	734.0	667.6	644.8	638.2	659.8	633.8
45°	953.7	948.4	938.2	924.3	886.9	844.1	774.8	753.2	746.2	783.3	740.5
47.5°	1042.5	1041.7	1042.1	1039.3	1033.6	982.2	899.9	885.2	878.3	931.7	884.4
50°	1098.8	1102.0	1115.9	1151.4	1177.4	1155.8	1059.3	1041.3	1036.0	1091.4	1027.5
52.5°	1141.2	1148.9	1172.1	1242.2	1325.8	1333.1	1253.2	1228.0	1215.8	1231.2	1142.4
55°	1162.8	1166.4	1201.9	1305.4	1436.2	1488.8	1455.4	1434.2	1384.9	1355.5	1277.3
57.5°	1112.2	1106.5	1167.7	1299.3	1493.3	1614.3	1628.6	1604.6	1525.5	1502.7	1441.1
60°	979.8	977.3	1046.2	1204.3	1443.6	1643.7	1757.0	1741.9	1669.4	1615.2	1557.3
62.5°	747.5	751.5	824.5	985.5	1266.3	1559.3	1828.3	1840.5	1763.5	1682.8	1643.3
64°	600.3	595.4	662.3	826.1	1111.0	1446.8	1823.0	1855.2	1792.0	1718.3	1651.0
65°	504.2	493.6	557.5	705.9	979.8	1365.3	1785.5	1837.3	1794.1	1726.8	1622.9
67.5°	265.3	271.0	298.3	428.8	661.5	1032.4	1607.8	1686.1	1703.6	1609.9	1414.2
70°	119.0	119.8	137.3	218.9	366.0	669.6	1293.2	1419.9	1429.7	1322.5	1024.6
72.5°	39.5	39.9	60.7	87.6	153.7	310.2	873.4	988.7	1009.9	857.5	555.9
75°	24.5	25.3	32.2	47.3	71.3	108.4	442.6	520.9	525.3	380.3	202.2
77.5°	15.5	16.3	19.6	28.1	39.1	41.2	145.1	175.7	198.9	136.9	62.8
80°	9.8	9.8	12.6	17.1	20.4	17.5	39.5	52.2	62.8	46.1	21.2
82.5°	3.7	3.7	6.5	9.4	8.6	6.1	10.6	13.9	24.0	22.8	10.2
85°	0.0	0.0	0.4	0.8	0.4	0.8	2.0	2.9	4.5	6.5	3.3
87.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.8	0.8	0.8	0.8	0.8
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°	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0
2.5°	236.8	237.6	239.2	239.6	240.1	238.8	240.1	238.8	239.6	239.6	239.6
5°	240.5	241.7	242.9	243.3	242.9	240.1	240.9	238.8	238.4	238.4	238.4
7.5°	245.4	246.6	248.6	247.4	244.9	240.9	240.5	237.6	236.4	236.4	236.8
10°	254.3	255.5	256.4	253.9	249.0	242.9	238.4	232.3	229.5	228.2	228.2
12.5°	265.7	267.0	266.5	262.5	253.5	240.9	228.2	216.4	207.9	204.6	201.3
15°	278.0	279.6	278.8	270.2	253.1	230.7	206.2	178.5	161.4	150.4	148.4
17.5°	292.2	293.9	289.8	274.3	247.0	209.1	162.6	125.1	100.3	90.9	90.5
20°	309.7	308.9	299.1	274.7	236.0	169.1	108.8	78.3	67.7	65.2	64.8
22.5°	329.7	326.0	308.1	272.3	205.8	114.9	70.1	61.9	60.7	59.9	59.9
25°	341.1	334.6	311.4	265.3	158.5	73.4	59.5	57.9	56.2	54.6	54.2
27.5°	350.1	340.3	312.6	242.5	105.6	56.2	53.8	52.2	49.7	47.3	46.9
30°	366.4	351.7	314.6	202.6	64.8	48.1	46.9	44.0	40.3	37.9	37.1
32.5°	395.7	374.5	322.8	151.6	47.3	42.4	39.1	35.5	31.4	28.9	28.9
35°	427.1	396.1	326.9	99.9	41.2	37.1	32.2	27.7	24.0	22.0	21.6
37.5°	456.1	427.1	325.6	61.1	36.7	31.8	26.5	22.0	18.7	17.1	17.1
40°	515.2	481.3	308.9	42.0	32.2	26.9	21.6	17.1	15.1	13.9	13.9
42.5°	599.5	540.8	271.8	35.9	28.1	22.4	17.1	14.3	12.6	11.4	11.4
45°	694.1	606.5	216.8	32.2	24.5	18.7	14.3	11.8	10.2	9.8	9.8
47.5°	818.0	685.9	159.4	28.9	21.2	15.9	11.8	9.8	9.0	8.6	8.6
50°	926.4	750.3	108.8	25.3	18.7	13.4	10.2	9.0	8.2	7.7	7.7
52.5°	1025.0	795.2	71.7	22.0	16.7	11.0	9.4	8.2	7.7	7.3	7.3
55°	1141.2	829.4	48.5	19.2	14.7	10.2	9.0	8.2	7.3	7.3	6.9
57.5°	1239.8	849.8	34.6	16.3	13.0	9.4	8.6	7.7	6.9	6.5	6.5
60°	1297.3	825.7	25.3	14.3	11.4	8.6	7.7	6.9	6.5	6.1	6.1
62.5°	1313.2	779.3	19.6	12.2	9.8	7.7	6.9	6.1	5.7	5.3	5.3
64°	1276.5	729.5	16.7	10.6	8.6	6.9	6.5	5.7	4.9	4.1	4.1
65°	1224.7	683.5	15.1	9.8	7.7	6.5	6.1	5.3	4.1	3.3	3.3
67.5°	1020.5	544.9	12.2	8.2	6.1	5.7	4.9	4.1	2.9	2.0	2.0
70°	724.6	381.1	9.4	6.5	5.3	5.3	4.5	3.3	1.6	0.8	0.8
72.5°	383.5	198.1	7.7	5.3	4.1	4.1	3.7	2.0	1.2	0.8	0.4
75°	134.1	65.2	6.5	4.5	3.7	2.9	2.4	1.6	1.2	0.8	0.4
77.5°	40.8	21.6	5.7	4.5	3.3	2.4	2.9	2.4	2.4	1.6	1.2
80°	13.0	7.7	3.3	2.9	3.3	3.3	2.9	2.4	2.9	2.0	1.6
82.5°	4.9	2.9	1.2	1.6	1.6	2.0	2.0	1.6	1.2	0.4	0.0
85°	1.6	1.2	0.8	1.2	1.2	1.2	0.8	0.8	0.4	0.0	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.0	0.0	0.0
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)