

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: P401389

Luminaire Tested: **ENT-SA1C-827-U-T3-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401389
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-SA1C-827-U-T3-HSS
Description: ENTRI LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA 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: 2548 lumens
Efficiency: N/A
Efficacy: 76.5 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): 33.3
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

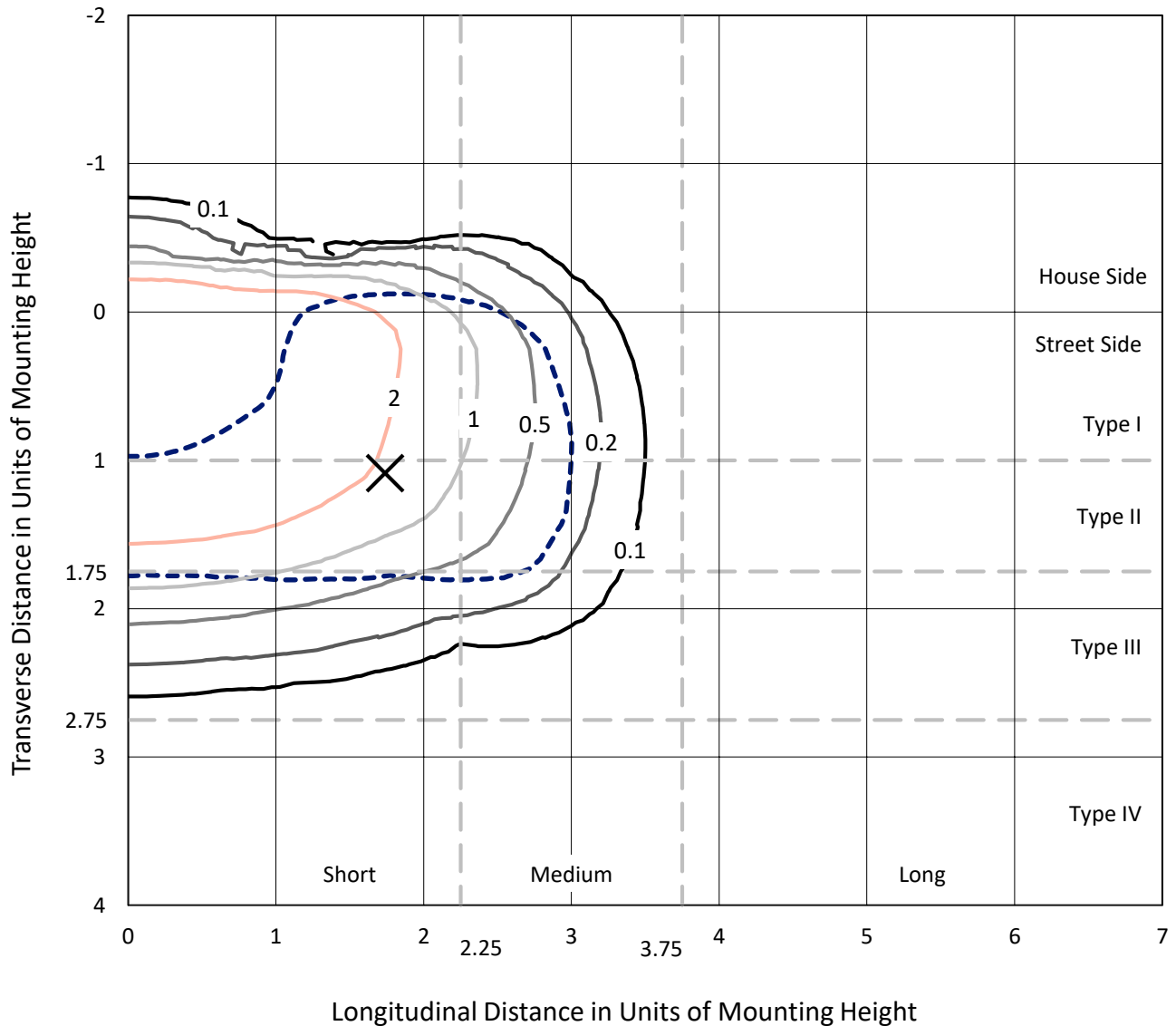


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

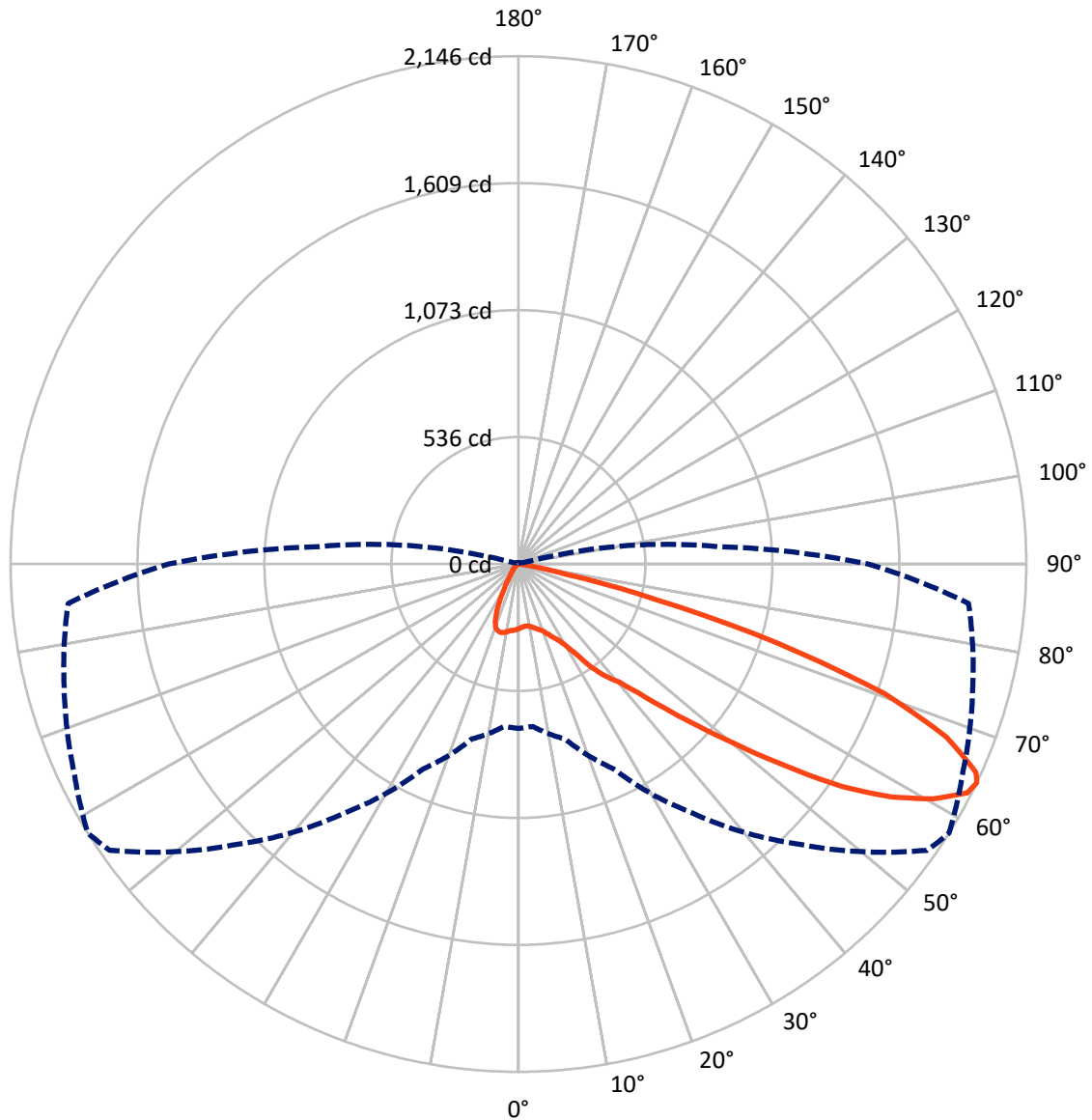


Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - Full Cutoff

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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	303.8	0.0	303.8
	% Fixture	11.9	0.0	11.9
Street Side	Lumens	2244.2	0.0	2244.2
	% Fixture	88.1	0.0	88.1
Total	Lumens	2548.0	0.0	2548.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.8	1.0
10°-20°	75.2	3.0
20°-30°	135.1	5.3
30°-40°	236.8	9.3
40°-50°	433.0	17.0
50°-60°	740.7	29.1
60°-70°	718.5	28.2
70°-80°	178.0	7.0
80°-90°	5.1	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°	2548.0	100.0
0°-180°	2548.0	100.0



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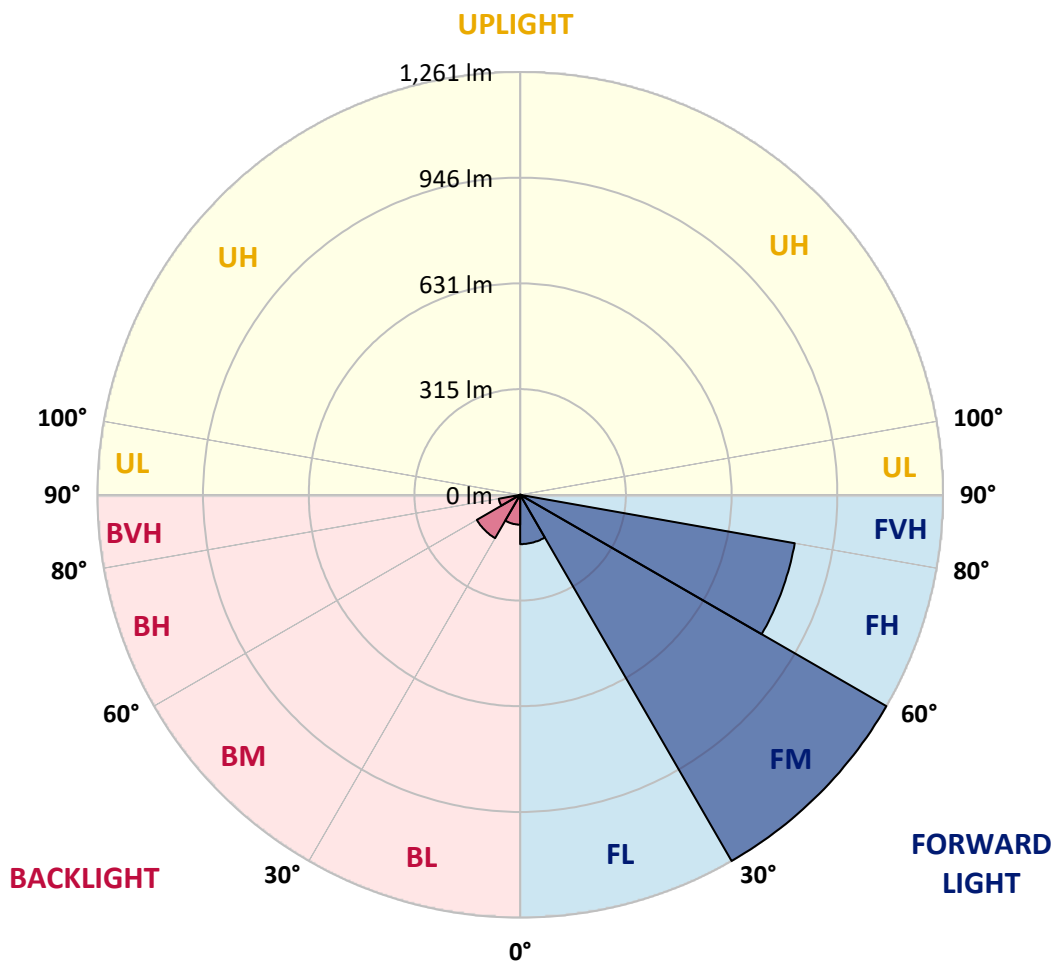
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	147.1	5.8			
FM (30°-60°)	1261.2	49.5			
FH (60°-80°)	831.6	32.6			G1/1800
FVH (80°-90°)	4.3	0.2			G0/10
BL (0°-30°)	88.9	3.5	B0/110		
BM (30°-60°)	149.2	5.9	B0/220		
BH (60°-80°)	64.9	2.5	B0/110		G0/110
BVH (80°-90°)	0.8	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°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9
2.5°	261.6	261.6	262.6	263.0	264.4	265.9	267.7	268.2	269.2	271.5	272.5
5°	247.5	247.9	248.9	251.2	254.5	258.3	263.0	264.4	268.2	272.9	276.2
7.5°	241.8	242.3	243.7	246.5	250.8	256.4	262.1	264.0	269.2	276.7	281.4
10°	240.9	240.9	242.8	247.0	252.2	259.3	265.4	267.7	274.8	283.8	291.3
12.5°	240.9	240.9	243.2	248.4	254.5	263.5	272.0	275.3	283.3	294.6	304.0
15°	245.1	246.1	247.5	250.8	257.8	267.7	279.5	283.3	293.2	306.9	318.7
17.5°	275.3	274.3	269.6	265.4	264.0	272.5	286.6	291.8	306.4	323.8	336.6
20°	333.7	333.3	324.8	304.0	285.7	280.9	297.4	303.6	324.8	347.9	357.3
22.5°	404.4	406.8	393.6	365.8	328.1	304.0	313.5	322.0	349.3	377.1	382.8
25°	474.7	477.5	465.3	430.4	384.2	342.2	335.6	343.2	374.3	402.1	399.7
27.5°	557.7	555.3	543.0	503.4	449.7	393.6	365.3	366.7	390.8	421.9	414.3
30°	618.5	615.2	603.4	576.5	526.1	462.0	407.7	403.5	410.6	445.0	437.0
32.5°	674.1	676.4	667.5	631.7	584.0	532.2	471.4	460.1	457.2	486.5	473.3
35°	729.2	728.8	725.5	693.9	647.2	598.2	547.3	539.3	538.3	566.6	530.8
37.5°	795.2	791.9	785.8	753.7	716.5	669.8	615.6	602.9	600.5	606.2	564.3
40°	865.9	870.2	860.3	826.8	786.3	751.4	675.5	656.2	640.1	656.6	629.8
42.5°	971.1	974.4	956.9	933.8	881.5	849.0	772.1	745.7	738.2	763.2	733.0
45°	1103.0	1096.9	1085.1	1069.1	1025.7	976.2	896.1	871.1	863.1	906.0	856.5
47.5°	1205.8	1204.9	1205.3	1202.0	1195.4	1136.0	1040.8	1023.9	1015.8	1077.6	1022.9
50°	1270.9	1274.6	1290.7	1331.7	1361.8	1336.9	1225.1	1204.4	1198.3	1262.4	1188.4
52.5°	1319.9	1328.8	1355.7	1436.8	1533.4	1541.9	1449.5	1420.3	1406.1	1424.1	1321.3
55°	1344.9	1349.1	1390.1	1509.9	1661.2	1722.0	1683.3	1658.8	1601.8	1567.8	1477.3
57.5°	1286.4	1279.8	1350.5	1502.8	1727.2	1867.2	1883.7	1855.8	1764.4	1738.0	1666.8
60°	1133.2	1130.4	1210.1	1392.9	1669.7	1901.1	2032.1	2014.7	1930.8	1868.1	1801.2
62.5°	864.5	869.2	953.6	1139.8	1464.6	1803.5	2114.6	2128.8	2039.7	1946.4	1900.6
64°	694.4	688.7	766.0	955.5	1285.0	1673.4	2108.5	2145.8	2072.7	1987.4	1909.6
65°	583.1	570.8	644.9	816.4	1133.2	1579.1	2065.1	2125.0	2075.0	1997.3	1877.1
67.5°	306.9	313.5	345.1	495.9	765.1	1194.0	1859.6	1950.1	1970.4	1862.0	1635.7
70°	137.6	138.6	158.9	253.1	423.3	774.5	1495.7	1642.3	1653.6	1529.7	1185.1
72.5°	45.7	46.2	70.2	101.3	177.7	358.7	1010.2	1143.6	1168.1	991.8	643.0
75°	28.3	29.2	37.2	54.7	82.5	125.4	511.9	602.4	607.6	439.8	233.8
77.5°	17.9	18.9	22.6	32.5	45.3	47.6	167.8	203.2	230.0	158.4	72.6
80°	11.3	11.3	14.6	19.8	23.6	20.3	45.7	60.3	72.6	53.3	24.5
82.5°	4.2	4.2	7.5	10.8	9.9	7.1	12.3	16.0	27.8	26.4	11.8
85°	0.0	0.0	0.5	0.9	0.5	0.9	2.4	3.3	5.2	7.5	3.8
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.9	0.9	0.9	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°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9
2.5°	273.9	274.8	276.7	277.2	277.6	276.2	277.6	276.2	277.2	277.2	277.2
5°	278.1	279.5	280.9	281.4	280.9	277.6	278.6	276.2	275.8	275.8	275.8
7.5°	283.8	285.2	287.5	286.1	283.3	278.6	278.1	274.8	273.4	273.4	273.9
10°	294.1	295.6	296.5	293.7	288.0	280.9	275.8	268.7	265.4	264.0	264.0
12.5°	307.3	308.8	308.3	303.6	293.2	278.6	264.0	250.3	240.4	236.6	232.9
15°	321.5	323.4	322.4	312.5	292.7	266.8	238.5	206.5	186.7	173.9	171.6
17.5°	338.0	339.9	335.2	317.2	285.7	241.8	188.1	144.7	116.0	105.1	104.6
20°	358.3	357.3	346.0	317.7	272.9	195.6	125.9	90.5	78.3	75.4	75.0
22.5°	381.4	377.1	356.4	314.9	238.1	132.9	81.1	71.7	70.2	69.3	69.3
25°	394.6	387.0	360.1	306.9	183.4	84.8	68.8	66.9	65.1	63.2	62.7
27.5°	404.9	393.6	361.6	280.5	122.1	65.1	62.2	60.3	57.5	54.7	54.2
30°	423.8	406.8	363.9	234.3	75.0	55.6	54.2	50.9	46.7	43.8	42.9
32.5°	457.7	433.2	373.3	175.4	54.7	49.0	45.3	41.0	36.3	33.5	33.5
35°	494.0	458.2	378.1	115.5	47.6	42.9	37.2	32.1	27.8	25.5	25.0
37.5°	527.5	494.0	376.6	70.7	42.4	36.8	30.6	25.5	21.7	19.8	19.8
40°	595.8	556.7	357.3	48.6	37.2	31.1	25.0	19.8	17.4	16.0	16.0
42.5°	693.4	625.5	314.4	41.5	32.5	25.9	19.8	16.5	14.6	13.2	13.2
45°	802.8	701.4	250.8	37.2	28.3	21.7	16.5	13.7	11.8	11.3	11.3
47.5°	946.1	793.3	184.3	33.5	24.5	18.4	13.7	11.3	10.4	9.9	9.9
50°	1071.5	867.8	125.9	29.2	21.7	15.6	11.8	10.4	9.4	9.0	9.0
52.5°	1185.5	919.7	83.0	25.5	19.3	12.7	10.8	9.4	9.0	8.5	8.5
55°	1319.9	959.3	56.1	22.2	17.0	11.8	10.4	9.4	8.5	8.5	8.0
57.5°	1434.0	982.8	40.1	18.9	15.1	10.8	9.9	9.0	8.0	7.5	7.5
60°	1500.4	955.0	29.2	16.5	13.2	9.9	9.0	8.0	7.5	7.1	7.1
62.5°	1518.8	901.3	22.6	14.1	11.3	9.0	8.0	7.1	6.6	6.1	6.1
64°	1476.4	843.8	19.3	12.3	9.9	8.0	7.5	6.6	5.7	4.7	4.7
65°	1416.5	790.5	17.4	11.3	9.0	7.5	7.1	6.1	4.7	3.8	3.8
67.5°	1180.4	630.2	14.1	9.4	7.1	6.6	5.7	4.7	3.3	2.4	2.4
70°	838.1	440.7	10.8	7.5	6.1	6.1	5.2	3.8	1.9	0.9	0.9
72.5°	443.6	229.1	9.0	6.1	4.7	4.7	4.2	2.4	1.4	0.9	0.5
75°	155.1	75.4	7.5	5.2	4.2	3.3	2.8	1.9	1.4	0.9	0.5
77.5°	47.1	25.0	6.6	5.2	3.8	2.8	3.3	2.8	2.8	1.9	1.4
80°	15.1	9.0	3.8	3.3	3.8	3.8	3.3	2.8	3.3	2.4	1.9
82.5°	5.7	3.3	1.4	1.9	1.9	2.4	2.4	1.9	1.4	0.5	0.0
85°	1.9	1.4	0.9	1.4	1.4	1.4	0.9	0.9	0.5	0.0	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.5	0.5	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)