

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: P401264

Luminaire Tested: **ENT-SA1C-727-U-T3**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1C-727-U-T3
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3841 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

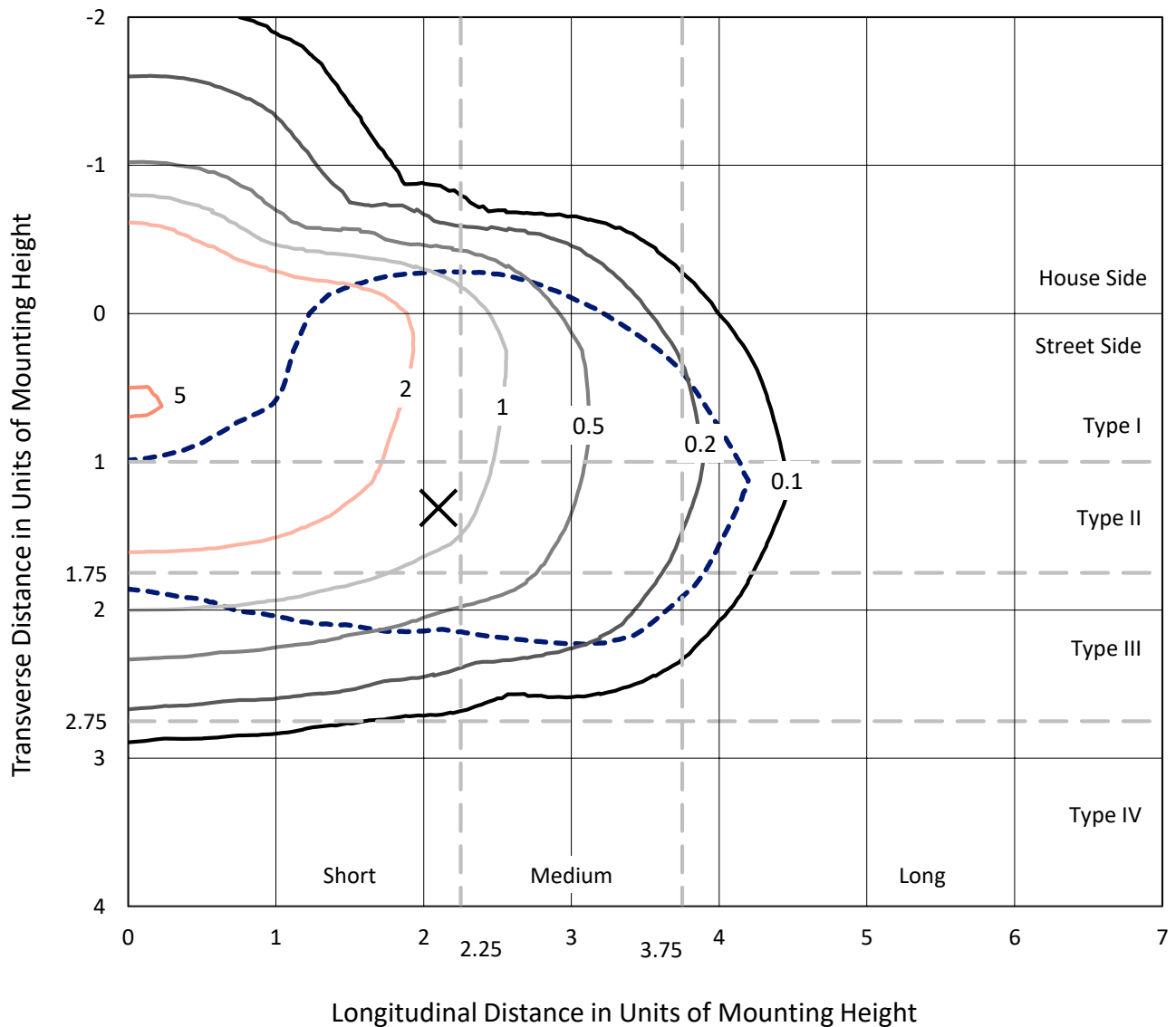
Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

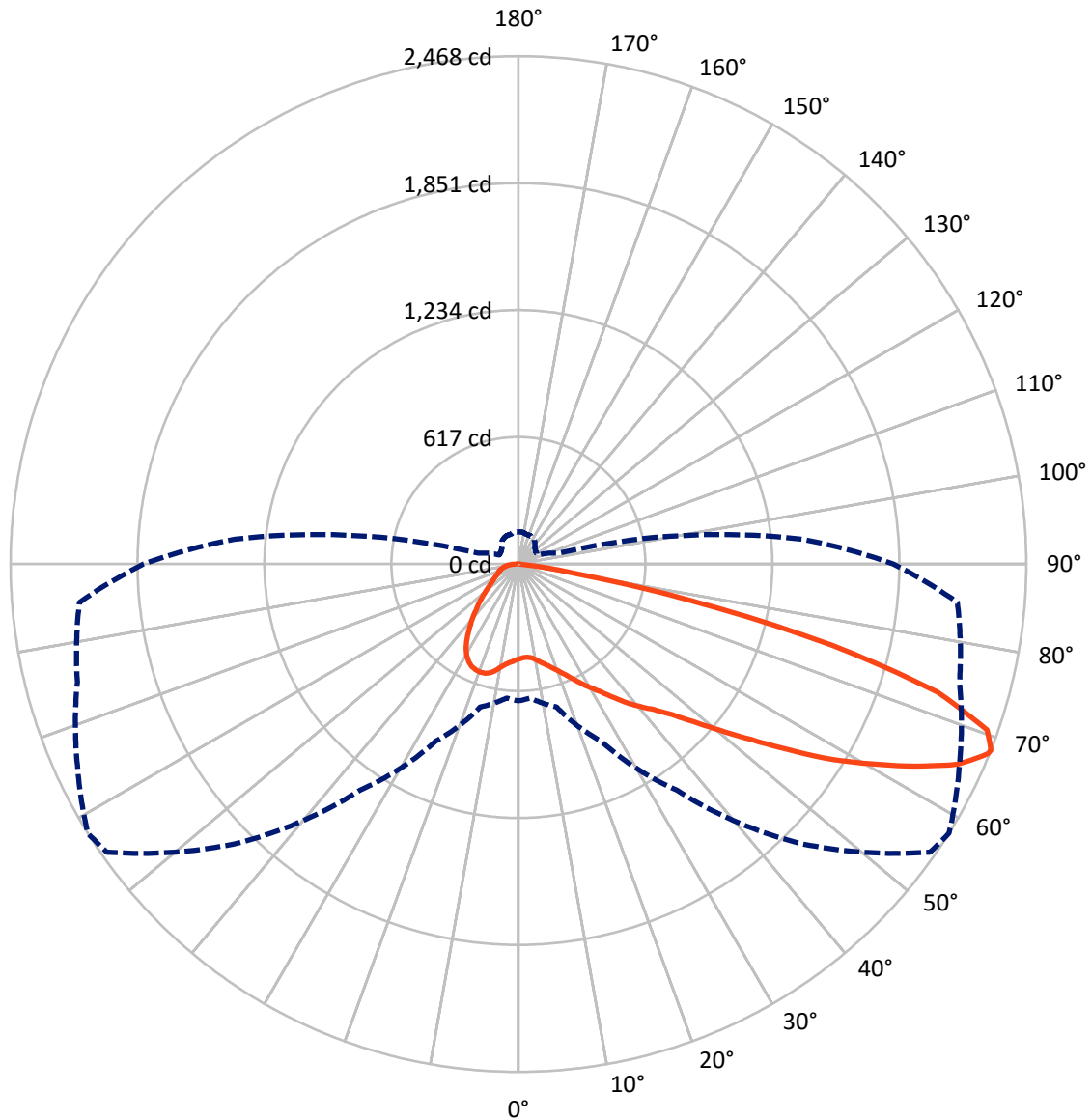
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	899.4	0.0	899.4
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	2941.6	0.0	2941.6
	% Fixture	76.6	0.0	76.6
Total	Lumens	3841.0	0.0	3841.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.4	1.2
10°-20°	148.6	3.9
20°-30°	267.2	7.0
30°-40°	392.6	10.2
40°-50°	575.7	15.0
50°-60°	860.6	22.4
60°-70°	1006.3	26.2
70°-80°	496.1	12.9
80°-90°	48.4	1.3
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°	3841.0	100.0
0°-180°	3841.0	100.0



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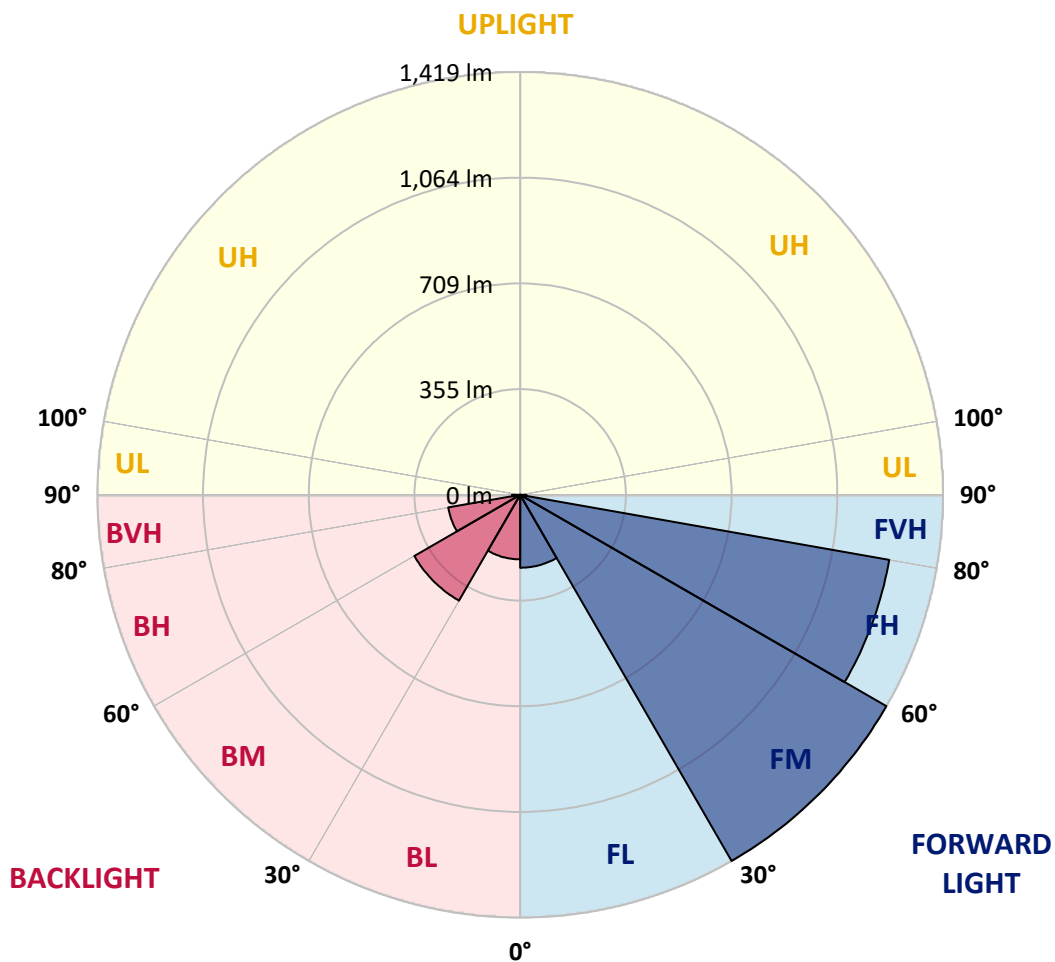
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	244.7	6.4			
FM	(30°-60°)	1418.7	36.9			
FH	(60°-80°)	1257.4	32.7			G1/1800
FVH	(80°-90°)	20.8	0.5			G1/100
BL	(0°-30°)	216.6	5.6	B1/500		
BM	(30°-60°)	410.2	10.7	B1/1000		
BH	(60°-80°)	245.0	6.4	B1/500		G1/500
BVH	(80°-90°)	27.6	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3
2.5°	450.0	450.0	451.6	452.1	453.2	454.3	455.4	455.9	457.5	459.6	460.7
5°	446.2	446.8	447.8	448.4	450.0	452.1	453.7	454.8	457.5	461.8	464.5
7.5°	454.8	456.4	457.0	457.5	458.0	459.6	459.6	460.2	462.9	467.2	470.9
10°	468.8	469.8	471.4	473.1	474.7	475.7	472.5	473.1	474.1	478.4	483.8
12.5°	486.5	486.5	487.0	489.1	490.8	494.0	490.8	490.8	490.8	494.5	500.9
15°	506.3	505.2	505.2	507.4	507.9	510.1	508.4	508.4	510.6	514.3	520.8
17.5°	528.8	530.4	528.8	527.8	526.1	527.2	528.3	529.4	533.7	539.6	543.3
20°	561.5	564.2	563.2	558.9	551.9	548.7	552.4	554.6	563.2	570.1	570.7
22.5°	613.6	612.0	610.4	602.8	588.9	580.3	580.9	584.1	597.5	608.2	602.8
25°	661.8	663.5	663.5	652.7	634.5	616.8	618.4	620.0	633.4	643.1	628.6
27.5°	720.3	719.2	718.7	704.2	682.2	665.1	655.9	660.2	669.9	673.6	645.8
30°	780.9	785.2	780.9	760.5	739.6	717.6	699.4	698.3	703.1	702.6	666.1
32.5°	853.9	850.1	848.5	824.9	798.6	769.6	746.6	742.8	740.1	736.4	690.3
35°	910.2	915.0	915.0	894.6	863.5	835.1	799.1	795.9	789.5	777.2	721.9
37.5°	976.7	975.6	979.4	955.8	924.6	897.3	864.0	854.9	840.4	822.2	759.5
40°	1041.6	1044.3	1052.8	1024.4	996.0	974.5	927.3	910.7	888.7	872.1	814.2
42.5°	1130.1	1133.8	1137.0	1113.4	1079.7	1060.3	987.4	966.5	954.1	950.9	886.6
45°	1237.3	1243.8	1246.5	1225.0	1205.7	1159.6	1063.0	1043.7	1030.3	1044.3	985.3
47.5°	1340.3	1337.1	1349.4	1348.9	1351.0	1295.8	1171.9	1142.9	1130.1	1165.5	1098.4
50°	1398.2	1403.1	1429.9	1457.2	1495.3	1455.6	1297.9	1269.0	1254.0	1297.9	1231.4
52.5°	1428.3	1434.7	1470.6	1547.3	1628.3	1609.6	1449.7	1417.5	1404.7	1447.6	1374.1
55°	1431.0	1434.7	1483.0	1602.0	1729.7	1735.6	1623.0	1592.4	1574.7	1602.6	1529.6
57.5°	1386.4	1375.2	1458.3	1610.1	1794.6	1867.0	1813.4	1791.4	1741.5	1771.5	1722.7
60°	1307.1	1318.3	1399.8	1576.8	1821.9	1969.4	2004.3	1971.0	1913.1	1925.5	1930.8
62.5°	1186.9	1201.4	1286.1	1499.6	1800.0	2056.3	2180.8	2164.1	2086.4	2079.9	2089.6
65°	1015.8	1007.2	1101.6	1330.7	1695.9	2085.3	2354.0	2347.0	2254.2	2178.6	2182.4
67.5°	732.6	724.6	790.6	1027.1	1414.3	1977.5	2446.2	2461.8	2355.6	2222.1	2164.1
68°	665.1	653.8	719.8	949.3	1341.9	1915.3	2441.4	2468.2	2363.1	2219.4	2141.6
70°	382.9	364.7	428.5	619.5	987.9	1612.2	2342.7	2416.7	2345.4	2167.3	1994.1
72.5°	120.1	120.1	165.7	250.5	484.9	1020.1	2004.3	2130.3	2145.4	1970.0	1657.3
75°	75.1	75.1	86.4	118.5	193.1	432.8	1382.7	1574.7	1704.5	1658.4	1208.4
77.5°	51.0	49.9	57.4	73.5	107.8	138.9	694.0	852.8	1042.6	1132.2	706.9
80°	27.9	28.4	35.4	44.0	61.1	64.4	203.8	288.0	459.1	537.9	268.2
82.5°	16.1	15.6	17.2	19.3	26.8	27.9	58.5	71.9	120.1	111.6	71.9
85°	0.0	0.5	0.5	0.5	1.1	2.7	7.5	11.3	18.2	25.2	17.7
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	1.1	1.1	1.1	1.1	1.6
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°	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3
2.5°	461.8	463.4	466.1	468.2	469.3	468.2	472.0	471.4	472.5	472.5	473.6
5°	466.6	468.8	473.6	476.3	479.0	480.0	484.3	485.4	487.5	488.6	488.1
7.5°	473.6	476.3	482.2	487.0	490.8	493.4	500.4	503.6	506.8	507.9	509.0
10°	486.5	490.2	496.7	502.6	507.9	511.7	517.6	521.9	525.1	526.1	527.2
12.5°	503.6	507.9	516.0	524.0	529.9	532.0	531.5	530.4	530.4	529.9	530.4
15°	523.5	527.8	537.9	545.5	546.0	539.0	529.4	524.5	523.5	523.5	524.0
17.5°	546.5	551.9	558.3	562.6	552.4	535.3	524.0	519.2	518.1	517.6	516.5
20°	572.8	576.0	578.2	572.8	550.3	530.4	517.6	510.6	505.2	504.7	502.6
22.5°	600.7	599.6	596.9	577.6	544.4	519.2	501.5	488.6	481.6	481.1	479.0
25°	621.1	616.8	608.7	578.7	533.7	500.9	475.7	455.4	446.2	441.9	443.0
27.5°	634.5	625.4	611.4	573.3	514.9	473.1	437.7	410.8	397.4	395.3	396.9
30°	650.6	636.1	613.6	559.9	488.1	433.9	387.8	361.0	353.4	349.7	350.8
32.5°	669.9	651.1	620.5	539.6	454.3	388.3	338.4	319.7	311.1	304.1	306.2
35°	695.1	671.5	631.8	510.6	411.4	340.0	303.0	285.9	270.3	262.8	263.3
37.5°	724.6	697.8	641.5	476.8	364.7	303.6	272.5	252.1	232.8	218.3	215.6
40°	771.8	749.8	649.5	439.3	320.2	273.5	242.4	219.4	201.1	186.6	185.0
42.5°	850.6	812.6	650.0	394.2	282.1	247.8	217.8	192.5	172.2	159.8	159.3
45°	943.4	884.4	638.8	345.9	248.9	222.0	195.8	167.3	155.5	147.5	146.4
47.5°	1053.4	967.0	614.1	300.9	220.4	196.8	173.2	156.1	147.5	141.6	141.6
50°	1178.9	1064.1	589.4	262.3	193.1	176.5	160.4	151.2	144.8	139.4	138.9
52.5°	1320.5	1178.9	581.4	223.1	170.6	157.7	156.1	147.5	142.1	138.4	137.3
55°	1489.4	1307.6	588.9	192.5	152.9	150.2	153.4	146.4	142.7	136.8	135.2
57.5°	1684.6	1433.1	580.9	166.8	140.5	143.2	150.2	146.4	143.2	135.7	133.5
60°	1868.6	1545.2	526.1	145.3	128.7	134.6	145.9	141.6	136.8	135.2	134.1
62.5°	1967.3	1581.7	419.4	128.7	119.6	126.0	138.9	133.5	130.3	134.1	134.6
65°	1968.4	1540.4	308.4	116.4	112.1	118.5	131.9	130.3	132.5	141.1	142.7
67.5°	1859.0	1414.9	217.8	105.1	104.6	112.6	135.2	145.9	147.5	156.1	156.1
68°	1821.4	1383.8	202.2	103.5	103.0	112.6	137.8	148.6	149.6	157.7	157.1
70°	1615.5	1169.8	146.4	97.1	100.3	120.7	152.3	156.1	149.6	158.8	158.2
72.5°	1262.5	865.1	109.4	90.1	95.5	119.1	153.4	149.6	140.0	142.1	139.4
75°	853.3	551.4	90.1	82.6	84.7	100.8	139.4	141.1	129.8	127.6	124.4
77.5°	446.8	258.5	72.9	73.5	75.6	87.4	124.4	128.2	118.0	111.6	110.5
80°	164.7	102.4	59.5	64.9	66.0	76.7	106.7	112.6	103.0	98.2	97.1
82.5°	60.1	51.0	49.3	56.9	55.8	65.4	93.3	97.6	87.4	82.6	79.9
85°	16.6	18.8	31.1	44.5	43.4	51.0	75.1	78.8	70.3	57.9	56.3
87.5°	1.1	3.8	12.3	26.3	27.4	31.6	54.2	59.5	52.0	42.9	42.4
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)