

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: P401265

Luminaire Tested: **ENT-SA1C-727-U-T4FT-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1C-727-U-T4FT-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2672 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

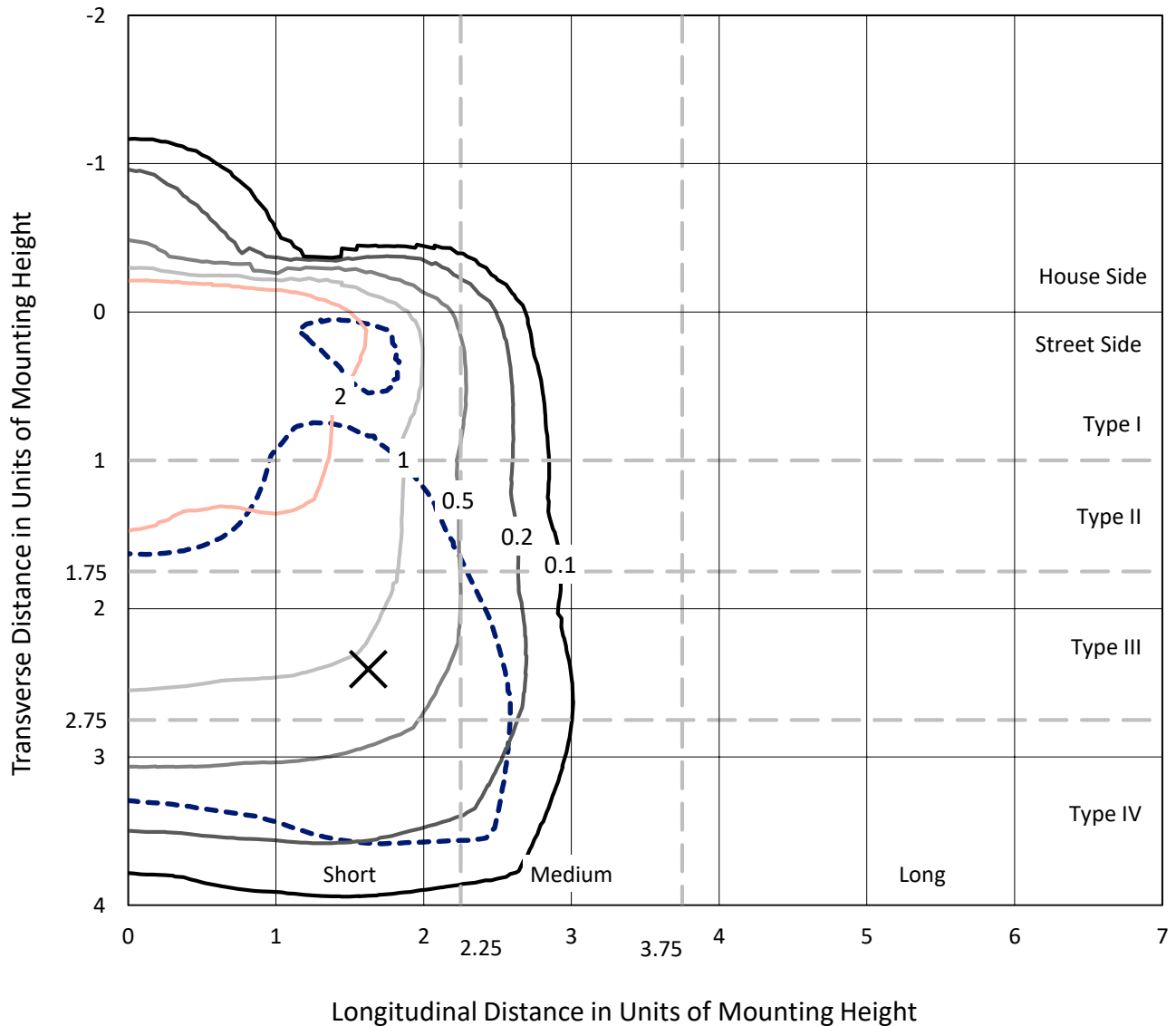
Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

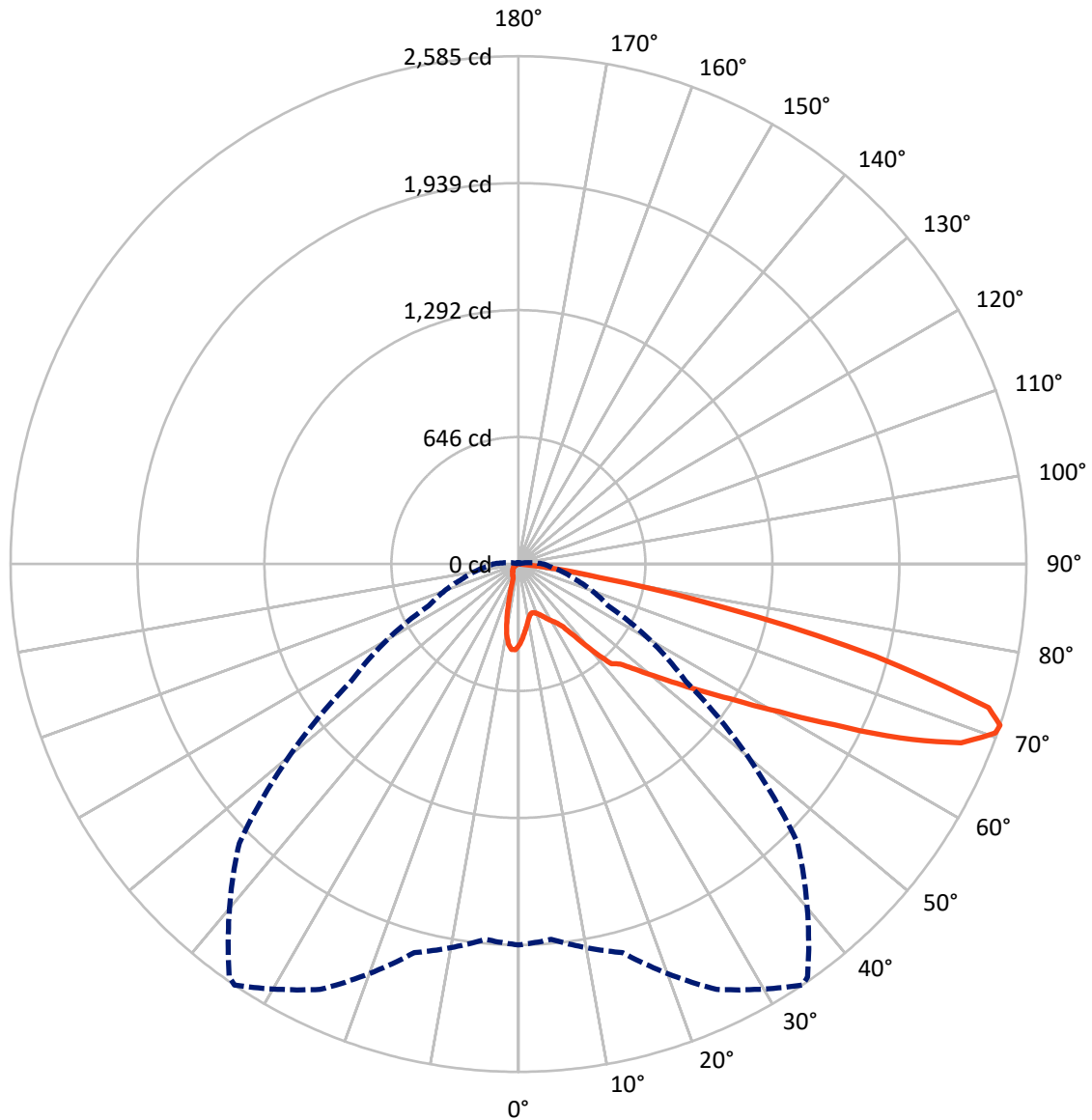
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	295.5	0.0	295.5
	% Fixture	11.1	0.0	11.1
Street Side	Lumens	2376.5	0.0	2376.5
	% Fixture	88.9	0.0	88.9
Total	Lumens	2672.0	0.0	2672.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.5	1.4
10°-20°	83.6	3.1
20°-30°	124.8	4.7
30°-40°	208.5	7.8
40°-50°	376.5	14.1
50°-60°	597.4	22.4
60°-70°	802.8	30.0
70°-80°	426.0	15.9
80°-90°	15.7	0.6
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°	2672.0	100.0
0°-180°	2672.0	100.0

Coefficient of Utilization



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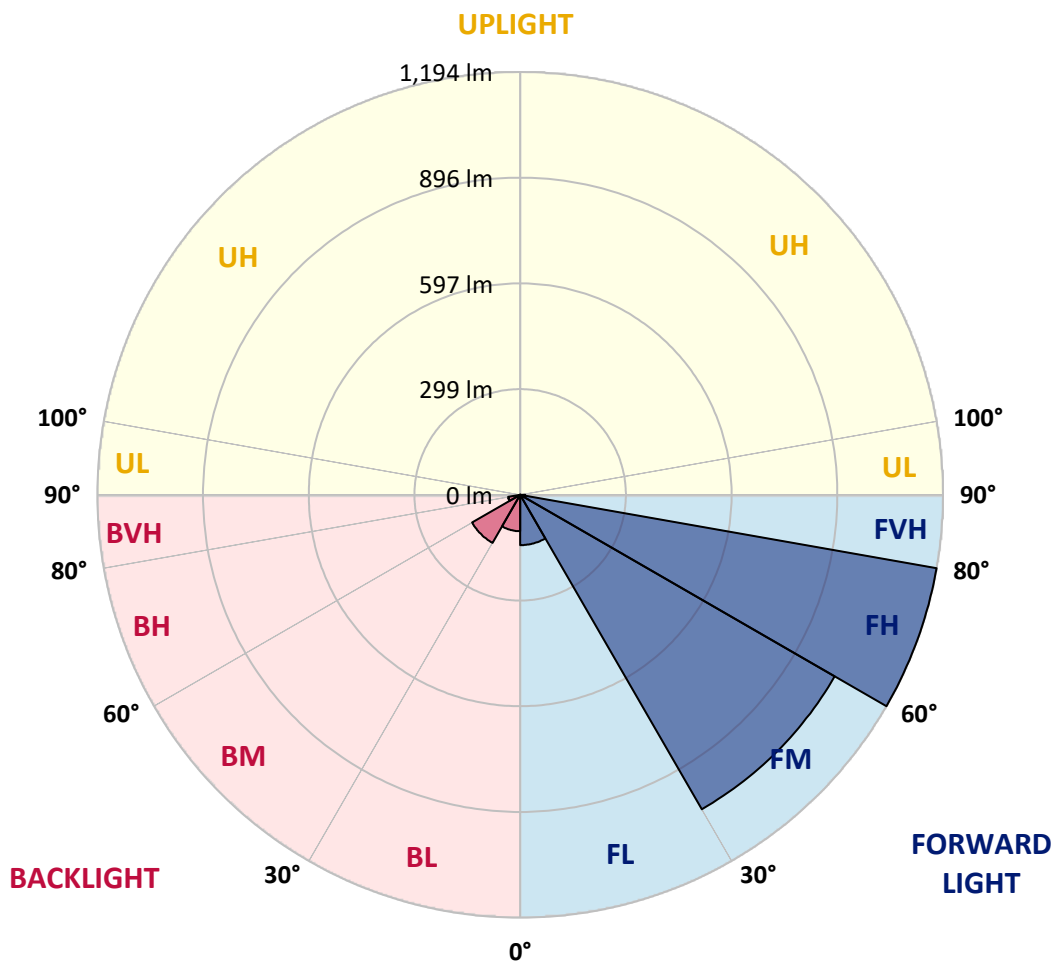
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	142.2	5.3			
FM	(30°-60°)	1025.7	38.4			
FH	(60°-80°)	1194.3	44.7			G1/1800
FVH	(80°-90°)	14.3	0.5			G1/100
BL	(0°-30°)	102.8	3.8	B0/110		
BM	(30°-60°)	156.8	5.9	B0/220		
BH	(60°-80°)	34.5	1.3	B0/110		G0/110
BVH	(80°-90°)	1.4	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	377.0	372.2	376.5	378.6	380.2	382.4	385.6	391.5	397.9	405.4	409.7
5°	328.7	331.4	333.0	338.9	344.8	345.9	356.1	367.9	382.9	397.9	410.8
7.5°	289.6	289.6	294.4	303.5	313.2	314.3	332.0	347.5	369.0	392.0	412.9
10°	258.5	259.6	263.3	272.4	284.8	287.4	307.3	328.7	355.6	385.6	415.1
12.5°	248.3	247.8	247.2	253.7	263.9	266.5	288.5	314.3	345.9	382.4	420.4
15°	254.7	253.1	249.4	250.4	256.9	259.6	278.9	304.6	340.0	381.8	429.6
17.5°	264.9	262.8	255.8	253.7	260.6	263.3	279.4	301.9	337.9	384.5	440.3
20°	277.3	275.1	264.4	261.7	268.7	270.8	287.4	306.8	338.9	389.9	454.8
22.5°	295.0	292.3	276.7	273.5	280.5	282.6	300.3	318.0	345.4	399.5	474.6
25°	316.4	313.2	293.3	289.1	297.6	299.8	317.5	334.1	356.1	412.4	499.8
27.5°	340.0	336.3	315.3	306.8	316.4	319.6	336.3	354.5	371.6	428.5	533.1
30°	361.5	357.2	336.8	327.1	336.8	338.4	358.2	378.6	396.9	455.8	581.9
32.5°	421.0	410.3	378.6	350.7	357.2	360.4	384.5	416.7	444.0	488.6	644.6
35°	510.0	501.4	462.8	414.5	392.0	393.1	424.2	465.0	477.3	526.6	722.4
37.5°	595.8	588.3	554.5	510.0	467.1	468.7	474.1	513.2	527.7	592.6	817.3
40°	689.7	677.9	651.1	608.7	579.2	572.2	545.9	573.3	604.9	675.7	920.8
42.5°	733.1	721.8	694.0	696.6	693.4	681.1	629.1	667.1	702.5	796.4	1035.0
45°	805.0	783.0	725.6	729.9	725.6	726.7	739.5	794.8	825.3	924.0	1164.3
47.5°	871.5	846.3	786.2	781.9	800.7	810.3	879.5	946.5	949.2	1035.0	1265.6
50°	932.1	913.8	858.6	859.1	893.5	904.2	1042.5	1103.7	1049.5	1120.3	1345.0
52.5°	1012.5	986.8	937.4	955.1	1008.8	1018.4	1205.0	1241.5	1121.9	1197.5	1407.2
55°	1087.0	1073.1	1036.6	1062.9	1145.0	1170.2	1370.2	1347.7	1172.9	1266.2	1437.2
57.5°	1209.3	1195.9	1186.3	1199.7	1309.6	1341.2	1537.5	1422.8	1212.5	1311.8	1423.3
60°	1413.1	1399.7	1370.7	1383.1	1526.3	1542.4	1668.9	1498.9	1228.1	1324.6	1368.6
62.5°	1664.6	1648.0	1601.3	1658.2	1801.9	1801.4	1805.1	1539.1	1208.3	1286.5	1224.3
65°	1891.5	1868.4	1844.3	1960.1	2135.0	2110.8	1949.9	1544.0	1145.5	1102.6	947.1
67.5°	2056.7	2047.5	2060.9	2241.7	2429.9	2405.8	2090.4	1477.5	953.5	795.8	585.1
70°	2050.2	2031.4	2116.7	2405.2	2576.3	2556.5	2084.5	1214.1	636.0	421.5	245.1
71°	1939.2	1917.8	2047.5	2389.2	2584.9	2566.1	2009.5	1038.8	503.0	297.6	161.4
72.5°	1498.4	1563.3	1769.7	2217.0	2502.3	2478.2	1805.1	795.3	318.6	172.1	81.0
75°	633.9	669.3	1050.6	1582.6	1877.0	1864.7	1216.8	367.4	146.4	77.8	31.1
77.5°	163.0	160.9	321.8	678.9	1092.9	1112.3	561.0	126.0	76.2	55.2	17.7
80°	31.6	34.3	91.7	236.0	417.2	428.5	182.9	55.2	50.9	43.4	9.1
82.5°	3.2	3.8	16.1	72.9	140.0	135.1	40.2	20.9	31.1	29.5	4.3
85°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	2.1	7.5	8.0	1.1
87.5°	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	412.9	417.8	423.1	426.9	430.6	431.2	436.5	435.5	437.1	437.6	437.1
5°	417.8	424.2	434.4	439.8	441.9	438.1	437.1	431.2	429.0	426.3	423.7
7.5°	423.1	431.2	443.0	445.7	438.1	424.2	412.9	398.5	385.1	376.5	377.5
10°	429.0	439.2	448.9	441.9	422.6	395.2	363.6	331.4	303.0	292.3	296.0
12.5°	436.5	448.9	453.2	433.9	396.3	341.1	283.7	234.9	205.4	187.7	185.6
15°	447.8	460.1	455.3	421.0	354.5	268.1	196.8	147.5	119.1	109.9	105.1
17.5°	461.7	473.5	455.3	397.9	295.0	192.0	119.6	89.6	80.4	78.3	78.8
20°	478.9	490.2	453.2	363.1	227.4	118.0	79.9	74.0	74.0	74.0	73.5
22.5°	502.0	507.9	449.9	316.9	156.6	79.9	70.8	70.3	70.8	70.8	70.8
25°	529.8	528.8	444.0	261.7	98.7	68.1	67.6	67.6	68.1	68.6	68.6
27.5°	566.9	555.6	433.9	195.7	69.7	63.3	64.4	65.4	66.5	67.6	67.6
30°	618.3	591.0	417.2	132.5	59.0	58.5	60.6	63.8	65.4	66.5	66.5
32.5°	673.6	627.5	388.8	84.7	54.2	53.6	55.8	60.6	64.9	66.0	66.0
35°	743.3	666.6	346.4	61.1	50.9	49.9	52.0	56.3	62.7	66.0	66.0
37.5°	816.8	708.4	284.8	51.5	47.7	46.7	48.3	51.5	59.0	64.9	65.4
40°	895.1	745.4	214.0	47.7	44.5	44.0	44.5	47.7	53.6	61.7	63.3
42.5°	973.9	776.5	149.6	44.0	41.8	40.8	41.8	44.0	49.3	56.3	57.4
45°	1060.8	810.9	99.7	40.8	39.7	38.6	39.7	41.3	45.0	48.8	49.3
47.5°	1124.1	823.2	68.6	37.0	36.5	37.0	37.5	38.6	40.8	41.3	40.8
50°	1165.9	816.8	49.3	33.2	33.8	35.4	35.4	35.9	35.9	34.3	33.8
52.5°	1196.5	793.2	38.1	28.4	31.6	33.2	33.2	32.2	31.1	29.0	28.4
55°	1199.7	740.1	30.0	24.7	28.4	31.1	30.6	28.4	26.3	24.1	24.1
57.5°	1158.9	659.6	24.7	20.9	24.7	27.4	26.3	24.1	21.5	19.8	19.8
60°	1092.9	577.0	20.9	17.7	20.4	23.1	21.5	19.8	17.2	15.6	15.6
62.5°	971.2	495.5	17.2	14.5	16.6	18.2	17.7	16.1	13.4	12.3	11.8
65°	744.4	377.0	12.9	11.3	12.9	15.0	13.9	12.3	10.7	9.1	8.6
67.5°	447.3	226.8	10.2	8.6	10.2	11.8	10.7	9.1	7.5	6.4	6.4
70°	189.3	97.1	8.0	6.4	7.5	9.1	8.6	7.5	5.9	5.4	5.4
71°	128.7	69.2	7.0	5.9	7.0	8.6	8.0	7.0	5.9	5.4	5.4
72.5°	66.0	35.4	5.9	4.8	6.4	7.5	7.5	6.4	5.4	5.4	5.4
75°	23.6	15.0	4.8	4.3	5.4	5.4	5.9	5.9	5.9	5.9	5.4
77.5°	13.4	9.1	4.3	4.3	4.3	4.8	5.9	6.4	7.0	7.0	6.4
80°	7.5	4.8	2.7	3.2	4.3	4.8	5.9	6.4	7.5	7.5	7.0
82.5°	3.8	1.6	0.5	1.6	2.7	4.3	4.8	5.4	6.4	5.9	5.9
85°	0.5	0.0	0.0	0.5	1.6	2.1	3.2	4.3	5.4	5.4	4.8
87.5°	0.0	0.0	0.0	0.0	0.5	1.1	1.6	2.7	3.8	4.3	3.8
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)