

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: P401301

Luminaire Tested: **ENV-SA1C-735-U-T4FT-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401301
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: ENV-SA1C-735-U-T4FT-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 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: 3001 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

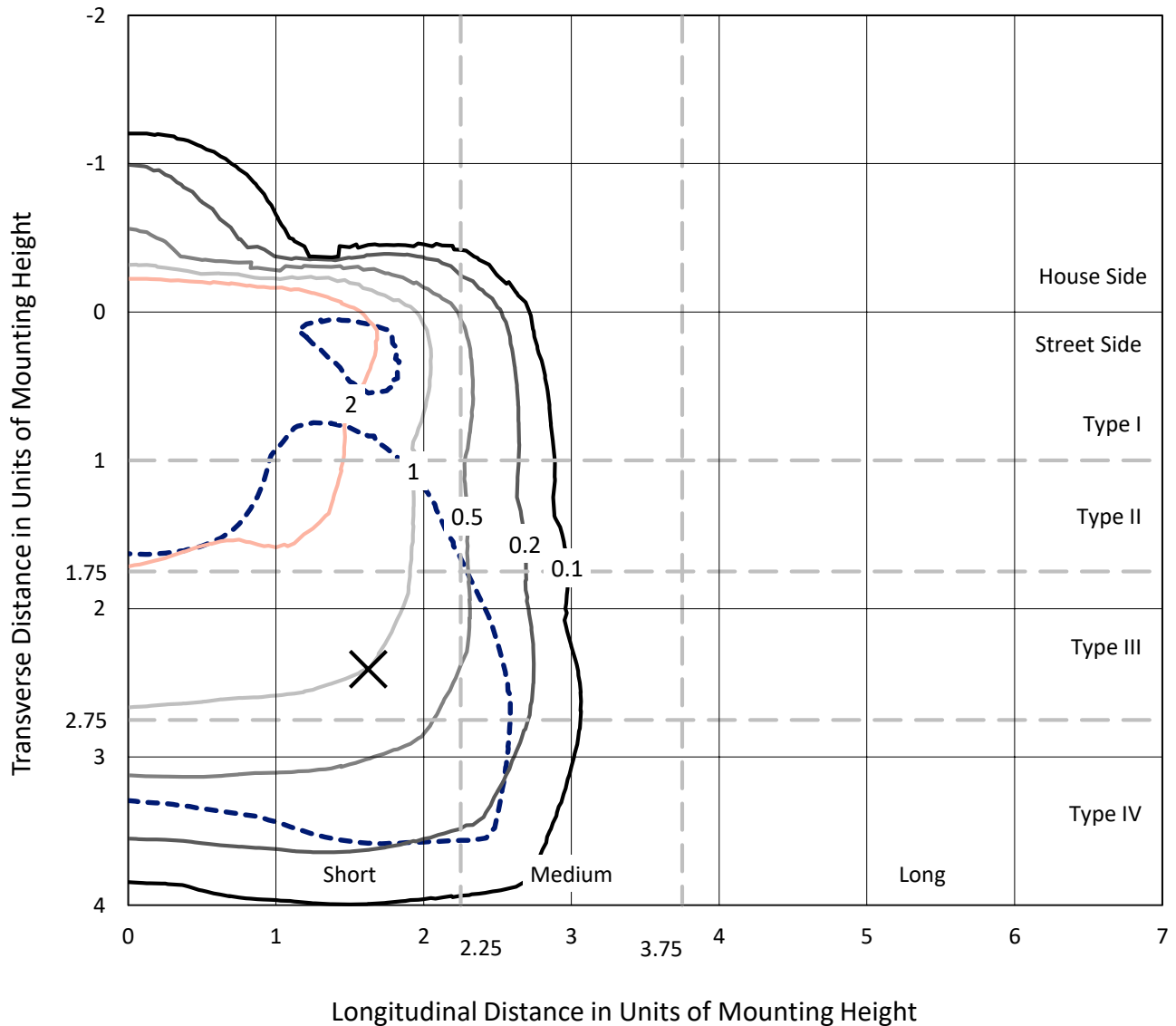
Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

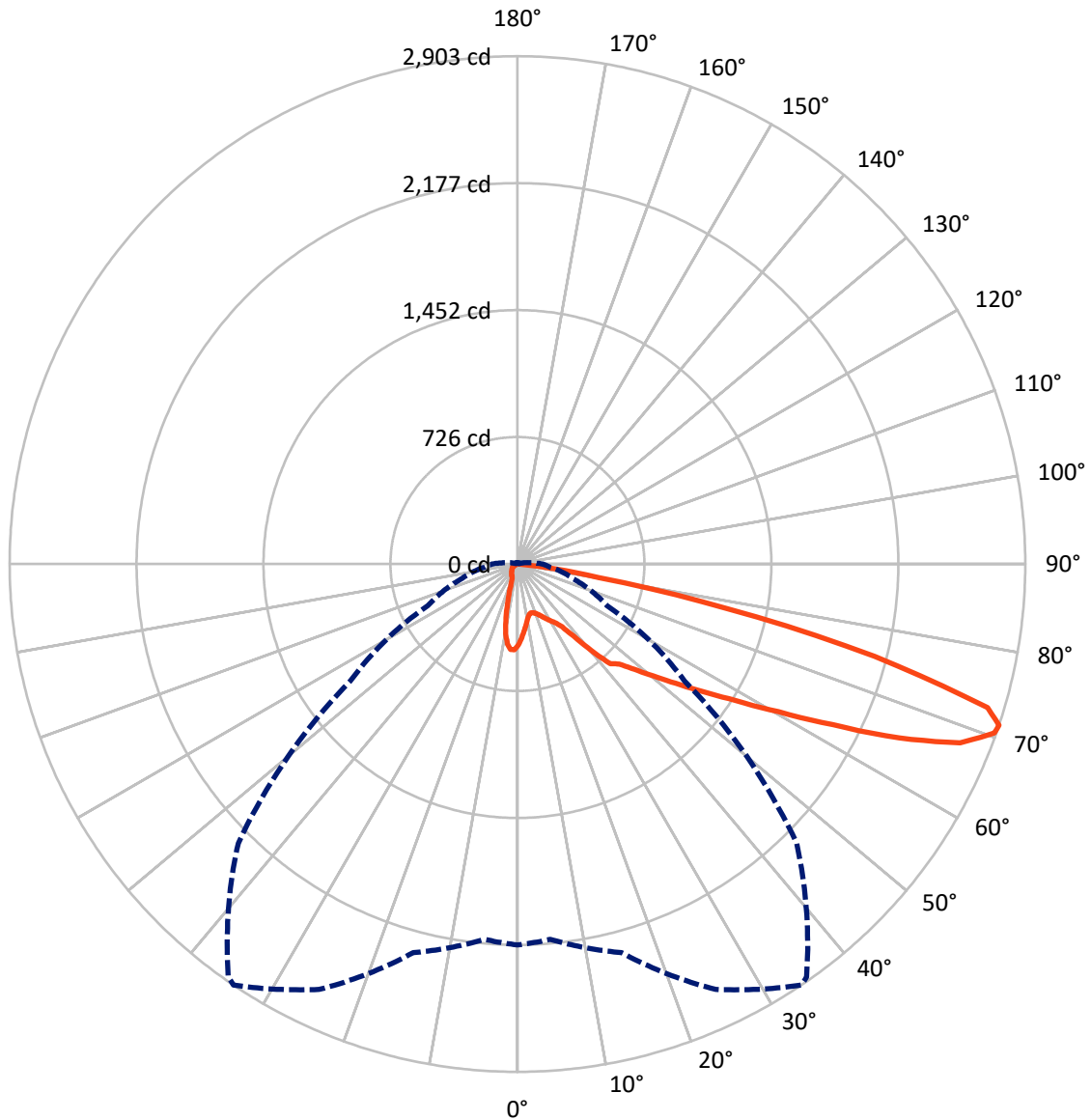
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 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	331.8	0.0	331.8
	% Fixture	11.1	0.0	11.1
Street Side	Lumens	2669.2	0.0	2669.2
	% Fixture	88.9	0.0	88.9
Total	Lumens	3001.0	0.0	3001.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.0	1.4
10°-20°	93.9	3.1
20°-30°	140.2	4.7
30°-40°	234.2	7.8
40°-50°	422.9	14.1
50°-60°	671.0	22.4
60°-70°	901.7	30.0
70°-80°	478.4	15.9
80°-90°	17.6	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°	3001.0	100.0
0°-180°	3001.0	100.0



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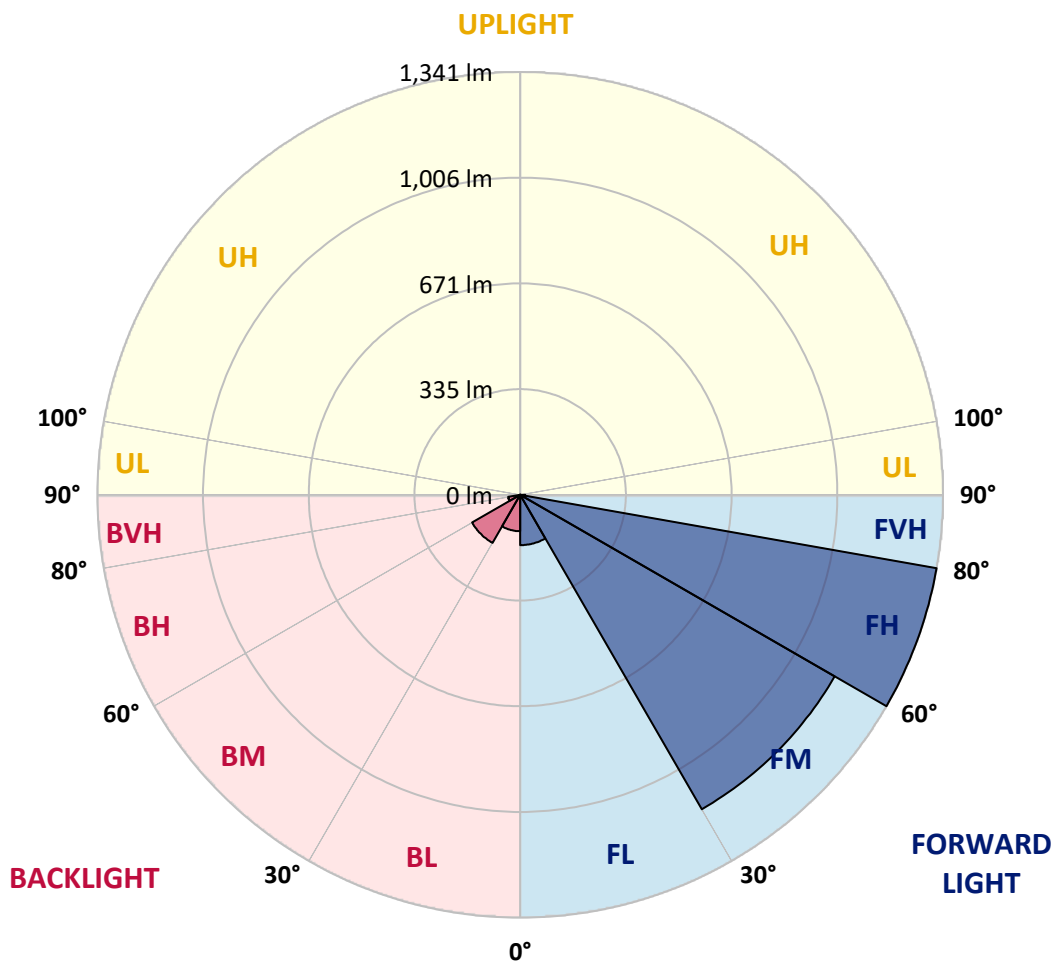
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	159.7	5.3			
FM	(30°-60°)	1152.0	38.4			
FH	(60°-80°)	1341.4	44.7			G1/1800
FVH	(80°-90°)	16.1	0.5			G1/100
BL	(0°-30°)	115.4	3.8	B1/500		
BM	(30°-60°)	176.1	5.9	B0/220		
BH	(60°-80°)	38.7	1.3	B0/110		G0/110
BVH	(80°-90°)	1.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	465.0	465.0	465.0	465.0	465.0	465.0	465.0	465.0	465.0	465.0	465.0
2.5°	423.4	418.0	422.8	425.2	427.0	429.5	433.1	439.7	446.9	455.4	460.2
5°	369.2	372.2	374.0	380.7	387.3	388.5	399.9	413.2	430.1	446.9	461.4
7.5°	325.3	325.3	330.7	340.9	351.8	353.0	372.8	390.3	414.4	440.3	463.8
10°	290.3	291.5	295.7	306.0	319.8	322.8	345.1	369.2	399.3	433.1	466.2
12.5°	278.9	278.3	277.7	284.9	296.3	299.4	324.0	353.0	388.5	429.5	472.2
15°	286.1	284.3	280.1	281.3	288.5	291.5	313.2	342.1	381.9	428.8	482.5
17.5°	297.5	295.1	287.3	284.9	292.7	295.7	313.8	339.1	379.5	431.9	494.5
20°	311.4	309.0	296.9	293.9	301.8	304.2	322.8	344.5	380.7	437.9	510.8
22.5°	331.3	328.3	310.8	307.2	315.0	317.4	337.3	357.2	387.9	448.7	533.1
25°	355.4	351.8	329.5	324.6	334.3	336.7	356.6	375.2	399.9	463.2	561.4
27.5°	381.9	377.7	354.2	344.5	355.4	359.0	377.7	398.1	417.4	481.3	598.7
30°	406.0	401.1	378.3	367.4	378.3	380.1	402.3	425.2	445.7	512.0	653.5
32.5°	472.8	460.8	425.2	393.9	401.1	404.8	431.9	468.0	498.7	548.7	724.0
35°	572.8	563.2	519.8	465.6	440.3	441.5	476.4	522.2	536.1	591.5	811.3
37.5°	669.2	660.7	622.8	572.8	524.6	526.4	532.4	576.4	592.7	665.6	917.9
40°	774.6	761.3	731.2	683.6	650.5	642.7	613.2	643.9	679.4	758.9	1034.2
42.5°	823.4	810.7	779.4	782.4	778.8	764.9	706.5	749.3	789.0	894.4	1162.5
45°	904.1	879.4	814.9	819.8	814.9	816.1	830.6	892.6	927.0	1037.8	1307.6
47.5°	978.8	950.5	883.0	878.2	899.3	910.1	987.8	1063.1	1066.1	1162.5	1421.5
50°	1046.8	1026.3	964.3	964.9	1003.5	1015.5	1170.9	1239.6	1178.7	1258.2	1510.6
52.5°	1137.2	1108.3	1052.9	1072.7	1133.0	1143.8	1353.4	1394.4	1260.0	1345.0	1580.5
55°	1220.9	1205.2	1164.3	1193.8	1285.9	1314.3	1538.9	1513.6	1317.3	1422.1	1614.2
57.5°	1358.2	1343.2	1332.3	1347.4	1470.9	1506.4	1726.8	1597.9	1361.8	1473.3	1598.5
60°	1587.1	1572.0	1539.5	1553.4	1714.2	1732.3	1874.4	1683.5	1379.3	1487.7	1537.1
62.5°	1869.6	1850.9	1798.5	1862.4	2023.8	2023.2	2027.4	1728.7	1357.0	1445.0	1375.1
65°	2124.4	2098.5	2071.4	2201.5	2397.8	2370.7	2190.0	1734.1	1286.5	1238.4	1063.7
67.5°	2309.9	2299.6	2314.7	2517.7	2729.1	2702.0	2347.8	1659.4	1070.9	893.8	657.1
70°	2302.7	2281.6	2377.3	2701.4	2893.5	2871.2	2341.2	1363.6	714.3	473.4	275.3
71°	2178.0	2153.9	2299.6	2683.3	2903.2	2882.1	2256.9	1166.7	565.0	334.3	181.3
72.5°	1682.9	1755.8	1987.6	2490.0	2810.4	2783.3	2027.4	893.2	357.8	193.3	90.9
75°	711.9	751.7	1179.9	1777.4	2108.1	2094.3	1366.7	412.6	164.4	87.3	34.9
77.5°	183.1	180.7	361.4	762.5	1227.5	1249.2	630.0	141.5	85.5	62.0	19.9
80°	35.5	38.5	103.0	265.0	468.6	481.3	205.4	62.0	57.2	48.8	10.2
82.5°	3.6	4.2	18.1	81.9	157.2	151.8	45.2	23.5	34.9	33.1	4.8
85°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	2.4	8.4	9.0	1.2
87.5°	0.0	0.0	0.6	0.6	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°	465.0	465.0	465.0	465.0	465.0	465.0	465.0	465.0	465.0	465.0	465.0
2.5°	463.8	469.2	475.2	479.4	483.7	484.3	490.3	489.1	490.9	491.5	490.9
5°	469.2	476.4	487.9	493.9	496.3	492.1	490.9	484.3	481.9	478.8	475.8
7.5°	475.2	484.3	497.5	500.5	492.1	476.4	463.8	447.5	432.5	422.8	424.0
10°	481.9	493.3	504.1	496.3	474.6	443.9	408.4	372.2	340.3	328.3	332.5
12.5°	490.3	504.1	509.0	487.3	445.1	383.1	318.6	263.8	230.7	210.8	208.4
15°	502.9	516.8	511.4	472.8	398.1	301.2	221.1	165.6	133.7	123.5	118.1
17.5°	518.6	531.8	511.4	446.9	331.3	215.6	134.3	100.6	90.3	87.9	88.5
20°	537.9	550.5	509.0	407.8	255.4	132.5	89.7	83.1	83.1	83.1	82.5
22.5°	563.8	570.4	505.3	356.0	175.9	89.7	79.5	78.9	79.5	79.5	79.5
25°	595.1	593.9	498.7	293.9	110.8	76.5	75.9	75.9	76.5	77.1	77.1
27.5°	636.6	624.0	487.3	219.8	78.3	71.1	72.3	73.5	74.7	75.9	75.9
30°	694.5	663.8	468.6	148.8	66.3	65.7	68.1	71.7	73.5	74.7	74.7
32.5°	756.5	704.7	436.7	95.2	60.8	60.2	62.6	68.1	72.9	74.1	74.1
35°	834.8	748.7	389.1	68.7	57.2	56.0	58.4	63.2	70.5	74.1	74.1
37.5°	917.3	795.7	319.8	57.8	53.6	52.4	54.2	57.8	66.3	72.9	73.5
40°	1005.3	837.2	240.3	53.6	50.0	49.4	50.0	53.6	60.2	69.3	71.1
42.5°	1093.8	872.2	168.0	49.4	47.0	45.8	47.0	49.4	55.4	63.2	64.4
45°	1191.4	910.7	112.0	45.8	44.6	43.4	44.6	46.4	50.6	54.8	55.4
47.5°	1262.5	924.6	77.1	41.6	41.0	41.6	42.2	43.4	45.8	46.4	45.8
50°	1309.4	917.3	55.4	37.3	37.9	39.8	39.8	40.4	40.4	38.5	37.9
52.5°	1343.8	890.8	42.8	31.9	35.5	37.3	37.3	36.1	34.9	32.5	31.9
55°	1347.4	831.2	33.7	27.7	31.9	34.9	34.3	31.9	29.5	27.1	27.1
57.5°	1301.6	740.9	27.7	23.5	27.7	30.7	29.5	27.1	24.1	22.3	22.3
60°	1227.5	648.1	23.5	19.9	22.9	25.9	24.1	22.3	19.3	17.5	17.5
62.5°	1090.8	556.5	19.3	16.3	18.7	20.5	19.9	18.1	15.1	13.9	13.3
65°	836.0	423.4	14.5	12.6	14.5	16.9	15.7	13.9	12.0	10.2	9.6
67.5°	502.3	254.8	11.4	9.6	11.4	13.3	12.0	10.2	8.4	7.2	7.2
70°	212.6	109.0	9.0	7.2	8.4	10.2	9.6	8.4	6.6	6.0	6.0
71°	144.6	77.7	7.8	6.6	7.8	9.6	9.0	7.8	6.6	6.0	6.0
72.5°	74.1	39.8	6.6	5.4	7.2	8.4	8.4	7.2	6.0	6.0	6.0
75°	26.5	16.9	5.4	4.8	6.0	6.0	6.6	6.6	6.6	6.6	6.0
77.5°	15.1	10.2	4.8	4.8	4.8	5.4	6.6	7.2	7.8	7.8	7.2
80°	8.4	5.4	3.0	3.6	4.8	5.4	6.6	7.2	8.4	8.4	7.8
82.5°	4.2	1.8	0.6	1.8	3.0	4.8	5.4	6.0	7.2	6.6	6.6
85°	0.6	0.0	0.0	0.6	1.8	2.4	3.6	4.8	6.0	6.0	5.4
87.5°	0.0	0.0	0.0	0.0	0.6	1.2	1.8	3.0	4.2	4.8	4.2
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)