

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: P401253

Luminaire Tested: **ENT-SA1C-727-U-SL3-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1C-727-U-SL3-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3161 lumens
Efficiency: N/A
Efficacy: 94.9 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

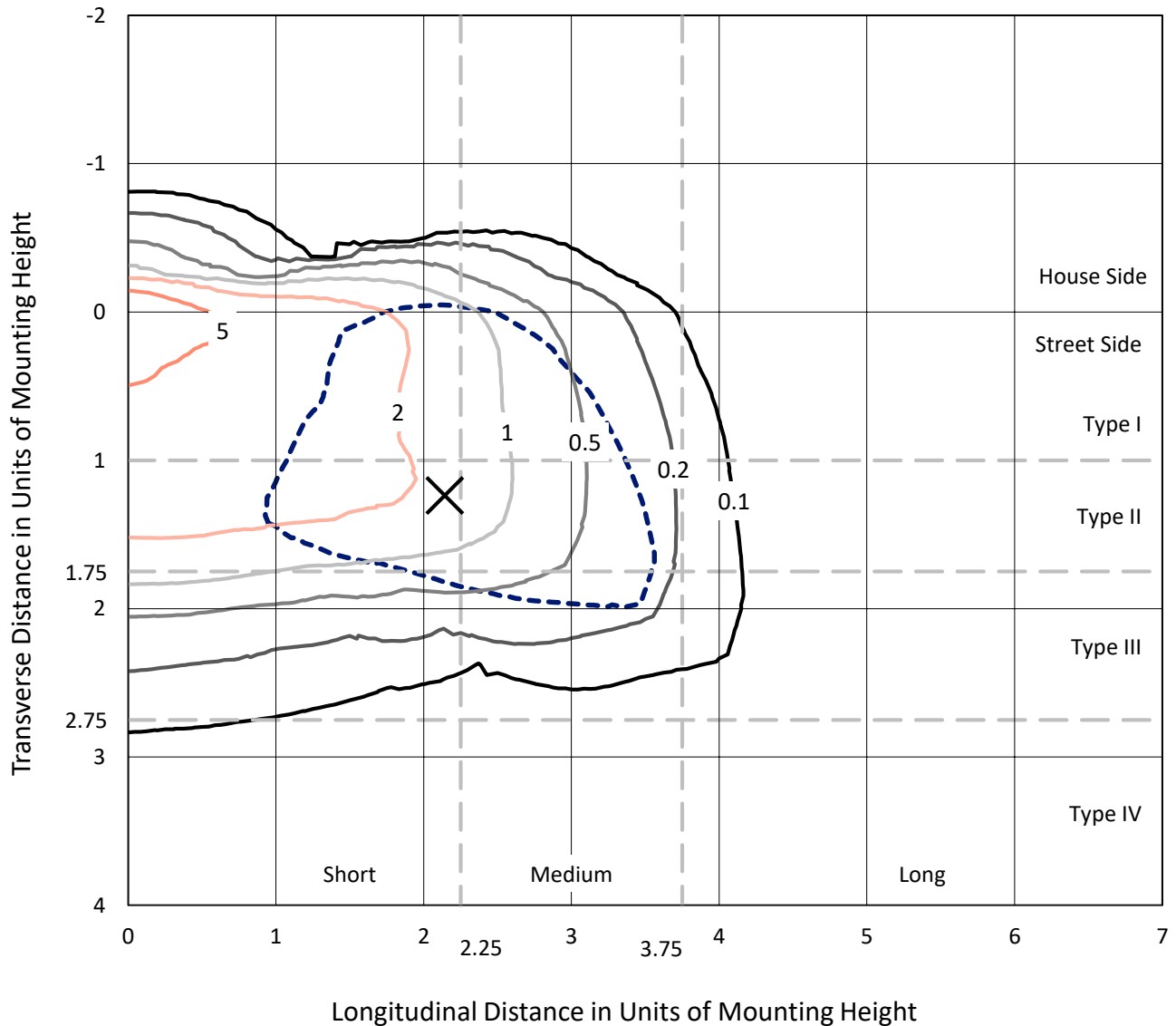
Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

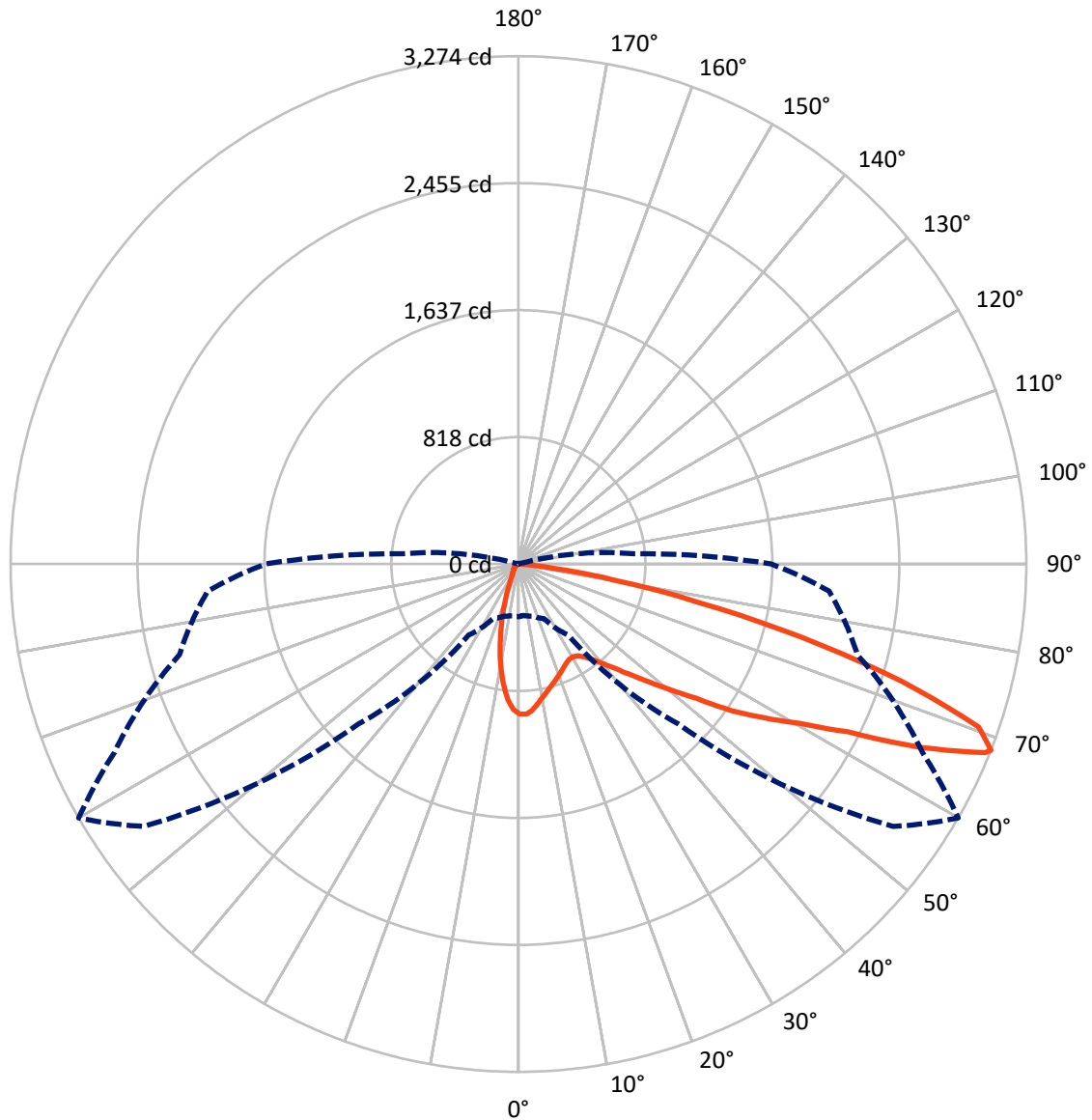
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	353.4	0.0	353.4
	% Fixture	11.2	0.0	11.2
Street Side	Lumens	2807.6	0.0	2807.6
	% Fixture	88.8	0.0	88.8
Total	Lumens	3161.0	0.0	3161.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	2.5
10°-20°	160.1	5.1
20°-30°	210.8	6.7
30°-40°	291.0	9.2
40°-50°	441.1	14.0
50°-60°	711.7	22.5
60°-70°	845.4	26.7
70°-80°	398.5	12.6
80°-90°	23.8	0.8
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°	3161.0	100.0
0°-180°	3161.0	100.0

Coefficient of Utilization



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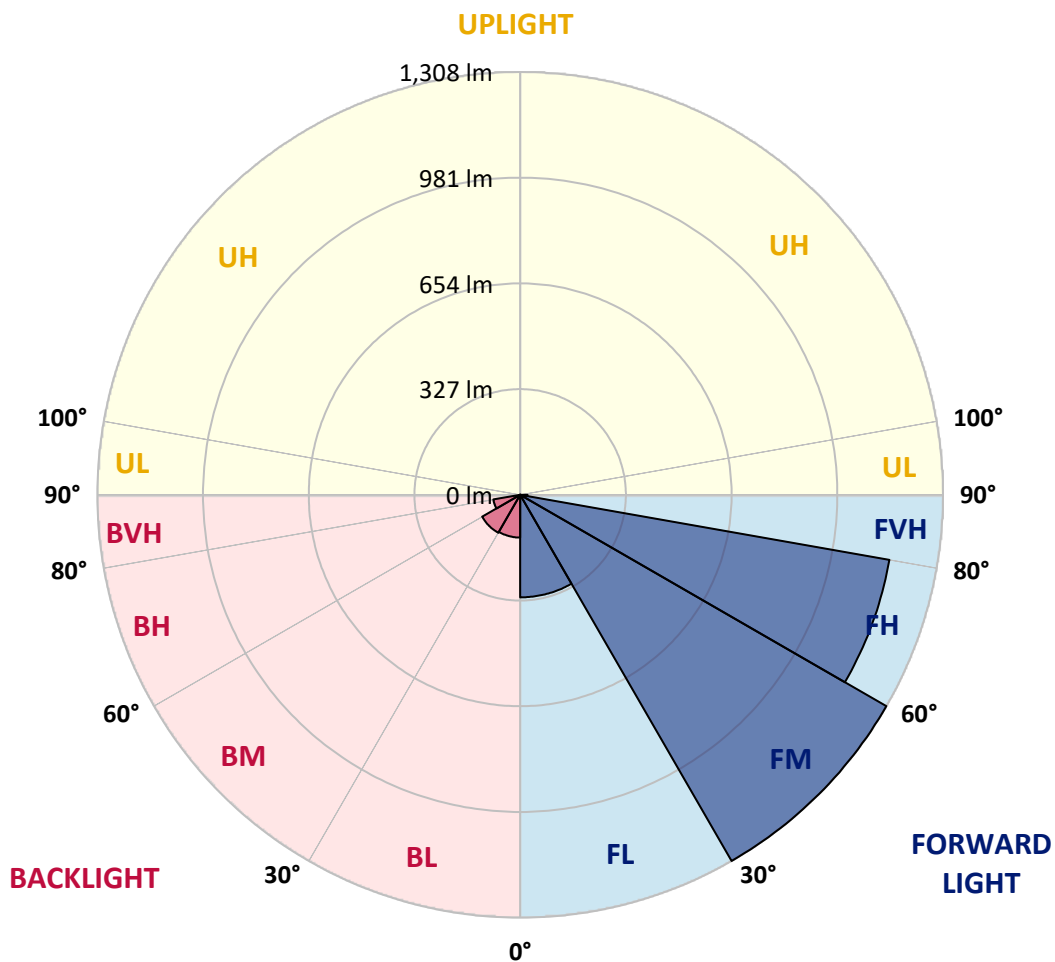
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	317.3	10.0			
FM	(30°-60°)	1307.9	41.4			
FH	(60°-80°)	1159.7	36.7			G1/1800
FVH	(80°-90°)	22.8	0.7			G1/100
BL	(0°-30°)	132.2	4.2	B1/500		
BM	(30°-60°)	135.8	4.3	B0/220		
BH	(60°-80°)	84.3	2.7	B0/110		G0/110
BVH	(80°-90°)	1.0	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5
2.5°	959.0	956.8	962.7	964.3	965.9	969.2	968.6	969.2	969.7	968.6	962.2
5°	893.5	897.3	902.7	909.6	916.6	932.7	939.1	945.6	949.8	953.1	947.2
7.5°	829.2	836.7	841.0	853.8	864.6	881.2	895.1	906.4	917.1	928.9	923.0
10°	777.7	780.4	784.1	795.9	812.0	837.2	855.5	869.4	882.3	902.1	897.3
12.5°	727.3	728.9	736.4	749.3	765.9	797.0	821.1	837.2	851.7	876.4	876.9
15°	690.3	690.8	695.6	707.4	726.7	760.0	791.1	808.8	829.2	859.2	860.8
17.5°	666.1	665.6	666.7	674.2	692.4	724.1	761.6	782.5	806.6	845.3	846.9
20°	658.6	657.5	655.4	653.8	665.1	692.4	734.8	757.8	786.3	835.1	835.6
22.5°	665.1	662.9	658.1	649.0	652.2	669.9	705.3	733.2	768.0	829.7	826.0
25°	680.6	680.6	674.2	659.7	652.2	655.9	684.4	711.2	749.8	827.0	819.0
27.5°	706.4	705.3	696.7	681.7	667.7	657.5	671.5	696.7	736.4	830.2	815.8
30°	737.5	734.2	725.1	714.4	697.2	675.2	674.2	692.9	730.0	840.4	817.9
32.5°	767.0	767.0	763.2	753.0	736.4	707.4	690.8	705.8	738.0	857.1	824.9
35°	803.4	802.9	804.0	800.2	785.7	755.2	728.3	735.9	762.7	885.0	841.5
37.5°	832.4	832.9	842.0	848.5	842.0	809.9	782.0	782.0	804.5	926.8	869.9
40°	860.8	861.9	879.1	897.8	899.4	873.7	846.9	846.3	859.2	978.3	913.9
42.5°	886.6	890.9	915.5	947.7	966.5	949.3	929.5	923.0	929.5	1056.0	985.2
45°	913.9	922.5	956.8	1003.5	1034.1	1034.6	1027.1	1019.6	1022.8	1143.5	1080.7
47.5°	949.3	959.0	1001.9	1059.3	1117.2	1132.2	1139.2	1136.5	1127.9	1253.9	1204.1
50°	1006.7	1015.8	1056.0	1120.4	1199.8	1253.9	1272.7	1275.9	1264.7	1376.2	1344.1
52.5°	1104.3	1109.7	1147.2	1198.2	1287.2	1388.6	1437.9	1438.4	1413.2	1519.4	1495.3
55°	1208.9	1222.8	1266.8	1325.8	1417.5	1531.2	1654.6	1668.0	1590.2	1644.9	1605.8
57.5°	1210.5	1223.9	1296.9	1410.0	1602.0	1752.7	1862.7	1872.3	1786.0	1745.8	1709.8
60°	1082.9	1089.8	1191.2	1356.9	1668.0	2051.5	2099.7	2085.3	1923.3	1849.8	1840.2
62.5°	764.3	767.5	887.6	1105.9	1522.1	2194.1	2460.7	2382.9	2118.5	2003.2	2035.4
65°	481.1	479.5	529.4	703.7	1132.2	2053.6	2906.9	2850.1	2477.3	2195.2	2187.7
67.5°	355.1	346.5	359.9	414.0	646.8	1612.2	2989.0	3245.4	2819.0	2275.1	2055.8
68°	340.6	333.1	347.0	388.8	559.4	1459.4	2949.3	3273.8	2873.1	2262.3	2010.7
70°	289.1	282.1	293.9	325.6	389.4	947.2	2602.3	3147.7	2922.5	2152.8	1772.0
72.5°	205.4	209.2	240.3	279.4	329.8	485.9	1916.3	2585.1	2513.8	1914.7	1348.3
75°	121.7	128.7	169.5	225.3	303.0	320.7	1236.3	1879.3	1844.5	1325.8	730.5
77.5°	42.9	45.6	84.2	150.2	249.9	254.2	688.7	1181.5	1098.9	541.7	215.6
80°	15.6	15.6	31.1	83.7	161.4	194.2	365.8	630.7	433.9	140.5	59.5
82.5°	2.7	2.7	7.0	28.4	71.3	103.5	170.0	224.2	128.7	31.1	29.5
85°	0.0	0.0	0.0	0.0	1.1	1.1	49.9	50.4	23.6	4.3	12.9
87.5°	0.0	0.0	0.0	0.0	0.0	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°	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5
2.5°	959.5	958.4	952.5	941.8	932.7	917.7	915.0	900.5	895.1	890.9	895.1
5°	942.9	937.0	917.1	893.0	860.3	821.7	799.1	768.0	761.6	744.4	754.6
7.5°	915.5	902.1	865.1	813.1	753.0	694.0	649.0	605.5	568.5	555.6	551.9
10°	886.6	867.8	805.6	725.1	638.2	547.6	480.6	417.8	382.9	350.2	349.2
12.5°	859.2	830.8	740.7	628.6	507.4	399.6	312.7	246.7	205.4	182.9	188.8
15°	837.2	799.1	675.2	532.0	378.7	257.4	177.0	134.6	120.1	113.2	114.2
17.5°	815.8	765.3	612.0	431.2	269.8	158.8	114.8	100.3	96.0	94.4	93.3
20°	796.5	732.6	545.5	340.0	178.1	109.9	94.4	89.6	88.0	86.9	86.9
22.5°	777.1	698.3	478.9	252.1	121.7	90.1	84.7	82.6	81.5	79.9	79.9
25°	759.4	665.1	412.4	176.5	93.3	80.5	76.7	74.6	72.4	70.8	70.8
27.5°	746.0	639.8	350.8	125.0	78.3	72.4	68.7	64.9	62.2	60.1	60.1
30°	737.5	615.2	291.2	94.4	69.7	64.4	59.5	54.7	50.4	47.7	47.2
32.5°	732.6	594.8	236.0	77.2	62.2	56.3	50.4	45.1	40.2	37.0	37.0
35°	734.8	578.7	180.7	65.4	56.3	49.3	42.9	36.5	32.2	29.5	29.0
37.5°	748.7	569.6	134.6	57.9	50.4	42.9	36.5	30.0	25.7	23.6	23.1
40°	775.0	571.7	102.4	52.6	46.1	37.5	30.0	24.7	20.9	18.8	18.8
42.5°	828.1	587.3	81.0	48.3	41.3	32.2	25.2	20.4	17.2	15.6	15.0
45°	898.4	616.8	66.5	44.5	36.5	27.4	21.5	17.2	13.9	12.3	12.3
47.5°	1004.6	664.0	57.4	40.8	31.6	23.1	17.7	13.9	10.7	9.7	9.1
50°	1127.4	730.0	50.4	36.5	27.9	19.3	15.0	10.7	8.6	7.0	7.0
52.5°	1252.9	803.4	45.6	32.7	24.1	16.6	11.8	8.0	5.9	4.8	4.8
55°	1368.2	865.1	40.8	29.5	20.4	13.9	9.7	6.4	4.3	3.2	3.2
57.5°	1479.7	921.4	35.4	25.7	16.6	11.3	7.5	4.8	3.2	2.1	2.1
60°	1619.7	994.4	30.6	22.0	13.4	9.1	5.9	3.8	2.1	1.6	1.1
62.5°	1788.7	1047.5	25.7	17.7	10.7	7.0	4.3	2.7	1.6	0.5	0.5
65°	1850.9	977.2	21.5	14.5	8.6	5.4	3.2	2.1	1.1	0.5	0.5
67.5°	1677.1	787.3	17.2	11.3	6.4	3.8	2.7	1.6	1.1	0.5	0.5
68°	1628.8	748.7	16.6	10.7	5.9	3.8	2.1	1.6	0.5	0.5	0.0
70°	1375.2	601.2	13.4	8.0	4.8	3.2	2.1	1.1	0.5	0.5	0.0
72.5°	1019.6	414.6	9.7	5.4	3.2	2.1	1.6	1.1	0.5	0.5	0.0
75°	537.9	161.4	7.5	4.3	2.7	2.1	1.6	1.6	1.1	0.5	0.5
77.5°	154.5	51.0	5.9	3.2	2.7	2.7	2.7	2.1	2.1	1.6	1.1
80°	45.1	16.6	3.8	2.1	2.7	2.7	3.2	2.7	2.7	2.1	2.1
82.5°	24.1	6.4	2.1	1.6	1.6	2.1	2.7	2.1	1.6	1.1	0.5
85°	10.2	2.1	1.6	1.1	1.1	1.1	1.1	1.1	1.1	0.5	0.5
87.5°	0.5	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)