

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: P401263

Luminaire Tested: **ENV-SA1C-727-U-T3-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401263
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: ENV-SA1C-727-U-T3-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 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: 2899 lumens
Efficiency: N/A
Efficacy: 87.1 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

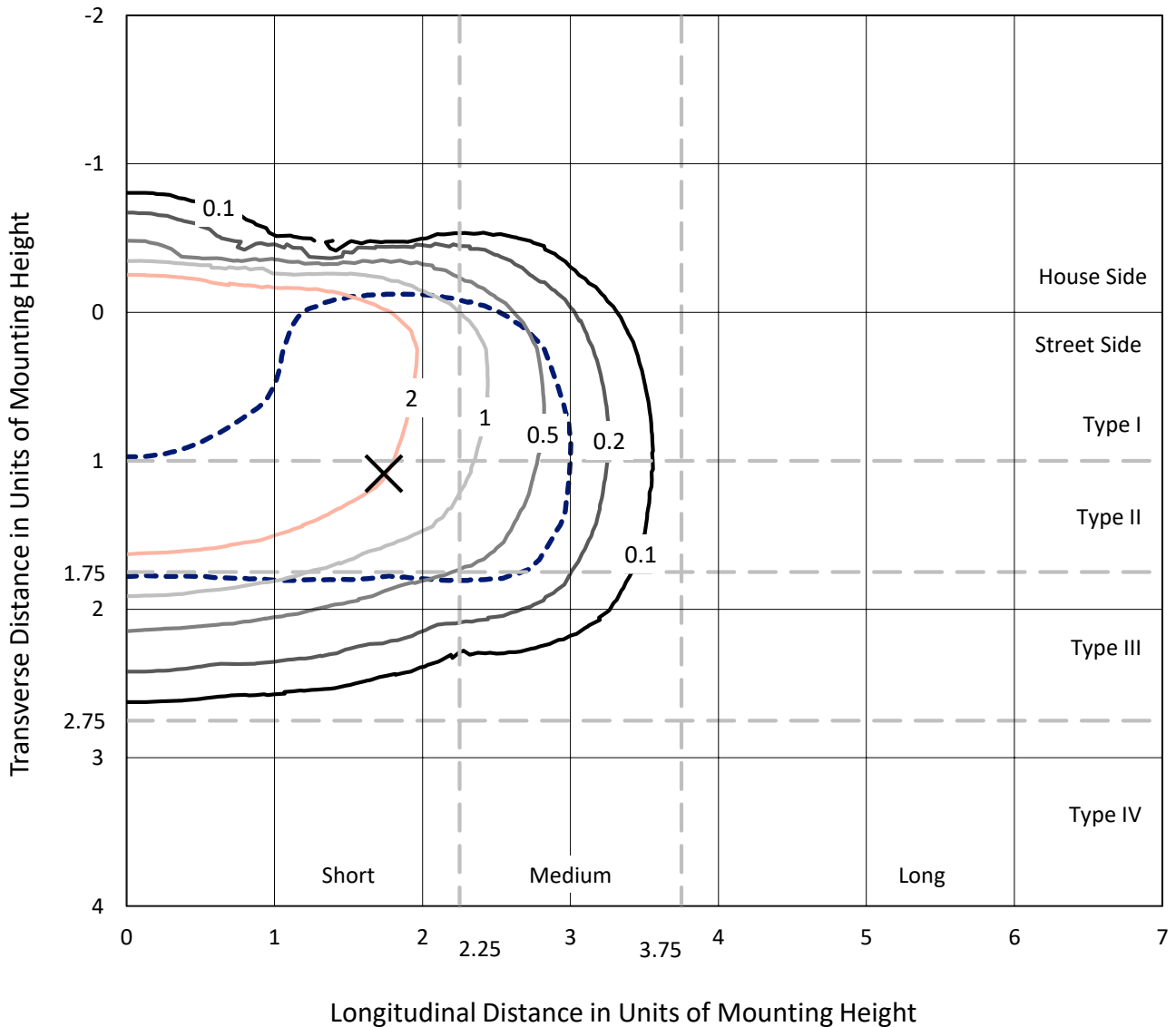


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

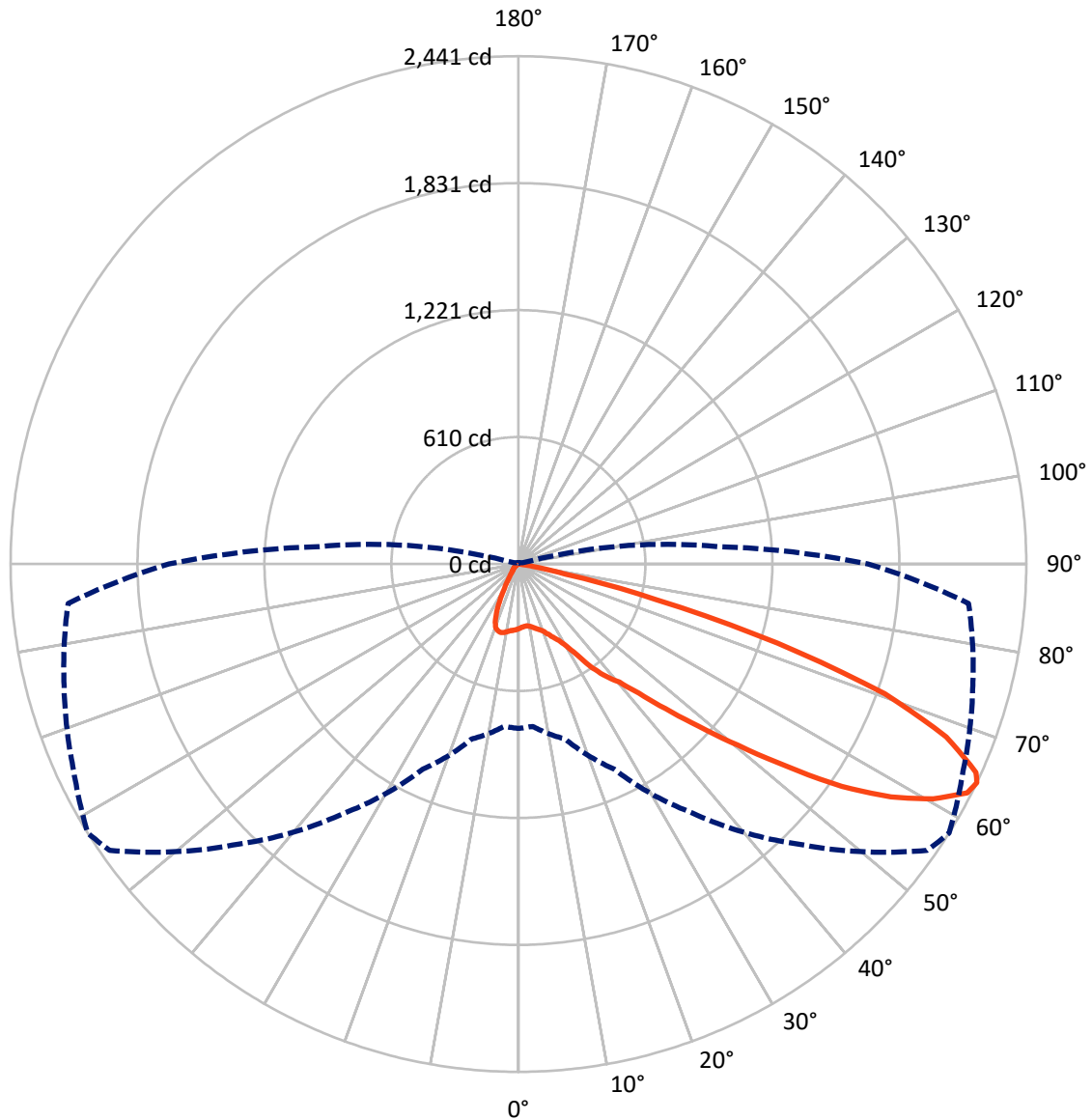


Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - Full Cutoff

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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	345.6	0.0	345.6
	% Fixture	11.9	0.0	11.9
Street Side	Lumens	2553.4	0.0	2553.4
	% Fixture	88.1	0.0	88.1
Total	Lumens	2899.0	0.0	2899.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.3	1.0
10°-20°	85.5	3.0
20°-30°	153.7	5.3
30°-40°	269.4	9.3
40°-50°	492.6	17.0
50°-60°	842.7	29.1
60°-70°	817.5	28.2
70°-80°	202.5	7.0
80°-90°	5.8	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°	2899.0	100.0
0°-180°	2899.0	100.0



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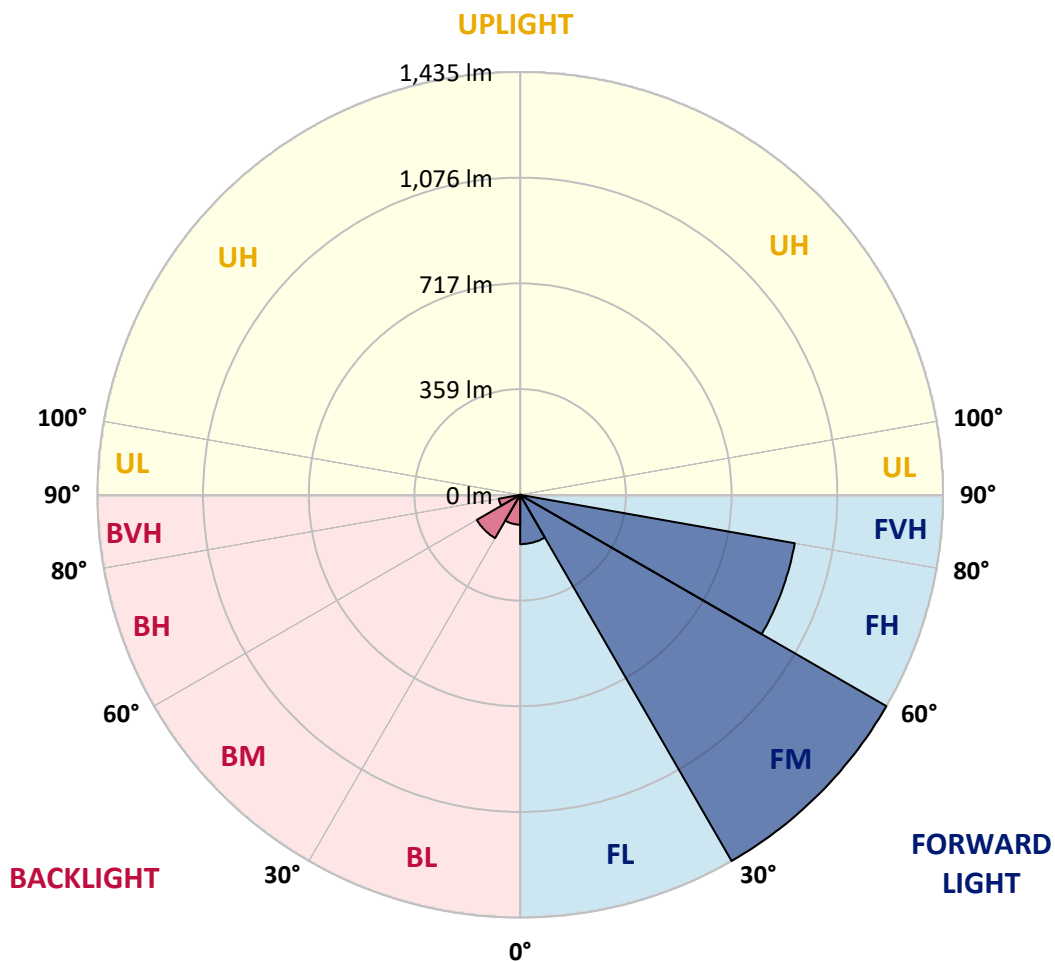
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	167.4	5.8			
FM (30°-60°)	1434.9	49.5			
FH (60°-80°)	946.2	32.6			G1/1800
FVH (80°-90°)	4.9	0.2			G0/10
BL (0°-30°)	101.2	3.5	B0/110		
BM (30°-60°)	169.8	5.9	B0/220		
BH (60°-80°)	73.8	2.5	B0/110		G0/110
BVH (80°-90°)	0.9	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°	310.5	310.5	310.5	310.5	310.5	310.5	310.5	310.5	310.5	310.5	310.5
2.5°	297.7	297.7	298.7	299.3	300.9	302.5	304.6	305.2	306.2	308.9	310.0
5°	281.6	282.1	283.2	285.9	289.6	293.9	299.3	300.9	305.2	310.5	314.3
7.5°	275.1	275.7	277.3	280.5	285.3	291.8	298.2	300.3	306.2	314.8	320.2
10°	274.1	274.1	276.2	281.0	286.9	295.0	301.9	304.6	312.7	322.9	331.4
12.5°	274.1	274.1	276.7	282.6	289.6	299.8	309.5	313.2	322.3	335.2	345.9
15°	278.9	280.0	281.6	285.3	293.4	304.6	318.0	322.3	333.6	349.1	362.6
17.5°	313.2	312.1	306.8	301.9	300.3	310.0	326.1	332.0	348.6	368.5	382.9
20°	379.7	379.2	369.5	345.9	325.0	319.6	338.4	345.4	369.5	395.8	406.5
22.5°	460.2	462.8	447.8	416.2	373.3	345.9	356.7	366.3	397.4	429.1	435.5
25°	540.1	543.3	529.4	489.7	437.1	389.4	381.9	390.4	425.8	457.5	454.8
27.5°	634.5	631.8	617.8	572.8	511.7	447.8	415.7	417.3	444.6	480.0	471.4
30°	703.7	699.9	686.5	655.9	598.5	525.6	463.9	459.1	467.1	506.3	497.2
32.5°	766.9	769.6	759.4	718.7	664.5	605.5	536.3	523.5	520.2	553.5	538.5
35°	829.7	829.2	825.4	789.5	736.4	680.6	622.7	613.6	612.5	644.7	603.9
37.5°	904.8	901.0	894.1	857.6	815.2	762.1	700.4	686.0	683.3	689.7	642.0
40°	985.2	990.1	978.8	940.7	894.6	854.9	768.6	746.6	728.3	747.1	716.5
42.5°	1104.8	1108.6	1088.7	1062.5	1002.9	965.9	878.5	848.5	839.9	868.3	834.0
45°	1255.0	1248.0	1234.6	1216.4	1167.0	1110.7	1019.5	991.1	982.0	1030.8	974.5
47.5°	1371.9	1370.8	1371.4	1367.6	1360.1	1292.5	1184.2	1164.9	1155.8	1226.0	1163.8
50°	1445.9	1450.2	1468.5	1515.1	1549.4	1521.0	1393.9	1370.3	1363.3	1436.3	1352.1
52.5°	1501.7	1511.9	1542.5	1634.7	1744.7	1754.3	1649.2	1615.9	1599.9	1620.2	1503.3
55°	1530.1	1535.0	1581.6	1717.8	1890.0	1959.2	1915.2	1887.3	1822.4	1783.8	1680.8
57.5°	1463.6	1456.1	1536.6	1709.8	1965.1	2124.4	2143.1	2111.5	2007.5	1977.4	1896.4
60°	1289.3	1286.1	1376.7	1584.8	1899.7	2163.0	2312.1	2292.2	2196.8	2125.4	2049.3
62.5°	983.6	989.0	1085.0	1296.8	1666.4	2052.0	2405.9	2422.0	2320.7	2214.5	2162.5
64°	790.0	783.6	871.5	1087.1	1462.0	1903.9	2399.0	2441.3	2358.2	2261.1	2172.6
65°	663.4	649.5	733.7	928.9	1289.3	1796.7	2349.6	2417.7	2360.9	2272.4	2135.6
67.5°	349.1	356.7	392.6	564.2	870.5	1358.5	2115.8	2218.8	2241.8	2118.5	1861.0
70°	156.6	157.7	180.7	288.0	481.6	881.2	1701.8	1868.5	1881.4	1740.4	1348.3
72.5°	52.0	52.6	79.9	115.3	202.2	408.1	1149.3	1301.1	1329.0	1128.4	731.5
75°	32.2	33.3	42.4	62.2	93.9	142.7	582.4	685.4	691.3	500.4	266.0
77.5°	20.4	21.5	25.7	37.0	51.5	54.2	190.9	231.2	261.7	180.2	82.6
80°	12.9	12.9	16.6	22.5	26.8	23.1	52.0	68.6	82.6	60.6	27.9
82.5°	4.8	4.8	8.6	12.3	11.3	8.0	13.9	18.2	31.6	30.0	13.4
85°	0.0	0.0	0.5	1.1	0.5	1.1	2.7	3.8	5.9	8.6	4.3
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	1.1	1.1	1.1	1.1	1.1
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°	310.5	310.5	310.5	310.5	310.5	310.5	310.5	310.5	310.5	310.5	310.5
2.5°	311.6	312.7	314.8	315.4	315.9	314.3	315.9	314.3	315.4	315.4	315.4
5°	316.4	318.0	319.6	320.2	319.6	315.9	317.0	314.3	313.7	313.7	313.7
7.5°	322.9	324.5	327.2	325.5	322.3	317.0	316.4	312.7	311.1	311.1	311.6
10°	334.7	336.3	337.3	334.1	327.7	319.6	313.7	305.7	301.9	300.3	300.3
12.5°	349.7	351.3	350.8	345.4	333.6	317.0	300.3	284.8	273.5	269.2	264.9
15°	365.8	367.9	366.8	355.6	333.1	303.6	271.4	234.9	212.4	197.9	195.2
17.5°	384.5	386.7	381.3	360.9	325.0	275.1	214.0	164.7	131.9	119.6	119.1
20°	407.6	406.5	393.7	361.5	310.5	222.6	143.2	103.0	89.0	85.8	85.3
22.5°	433.9	429.1	405.5	358.3	270.8	151.2	92.2	81.5	79.9	78.8	78.8
25°	448.9	440.3	409.8	349.1	208.6	96.5	78.3	76.2	74.0	71.9	71.3
27.5°	460.7	447.8	411.4	319.1	138.9	74.0	70.8	68.6	65.4	62.2	61.7
30°	482.2	462.8	414.0	266.6	85.3	63.3	61.7	57.9	53.1	49.9	48.8
32.5°	520.8	492.9	424.8	199.5	62.2	55.8	51.5	46.7	41.3	38.1	38.1
35°	562.1	521.3	430.1	131.4	54.2	48.8	42.4	36.5	31.6	29.0	28.4
37.5°	600.1	562.1	428.5	80.4	48.3	41.8	34.9	29.0	24.7	22.5	22.5
40°	677.9	633.4	406.5	55.2	42.4	35.4	28.4	22.5	19.8	18.2	18.2
42.5°	788.9	711.7	357.7	47.2	37.0	29.5	22.5	18.8	16.6	15.0	15.0
45°	913.4	798.0	285.3	42.4	32.2	24.7	18.8	15.6	13.4	12.9	12.9
47.5°	1076.4	902.6	209.7	38.1	27.9	20.9	15.6	12.9	11.8	11.3	11.3
50°	1219.1	987.4	143.2	33.3	24.7	17.7	13.4	11.8	10.7	10.2	10.2
52.5°	1348.9	1046.4	94.4	29.0	22.0	14.5	12.3	10.7	10.2	9.7	9.7
55°	1501.7	1091.4	63.8	25.2	19.3	13.4	11.8	10.7	9.7	9.7	9.1
57.5°	1631.5	1118.2	45.6	21.5	17.2	12.3	11.3	10.2	9.1	8.6	8.6
60°	1707.1	1086.6	33.3	18.8	15.0	11.3	10.2	9.1	8.6	8.0	8.0
62.5°	1728.0	1025.4	25.7	16.1	12.9	10.2	9.1	8.0	7.5	7.0	7.0
64°	1679.8	960.0	22.0	13.9	11.3	9.1	8.6	7.5	6.4	5.4	5.4
65°	1611.6	899.4	19.8	12.9	10.2	8.6	8.0	7.0	5.4	4.3	4.3
67.5°	1343.0	717.1	16.1	10.7	8.0	7.5	6.4	5.4	3.8	2.7	2.7
70°	953.6	501.5	12.3	8.6	7.0	7.0	5.9	4.3	2.1	1.1	1.1
72.5°	504.7	260.7	10.2	7.0	5.4	5.4	4.8	2.7	1.6	1.1	0.5
75°	176.5	85.8	8.6	5.9	4.8	3.8	3.2	2.1	1.6	1.1	0.5
77.5°	53.6	28.4	7.5	5.9	4.3	3.2	3.8	3.2	3.2	2.1	1.6
80°	17.2	10.2	4.3	3.8	4.3	4.3	3.8	3.2	3.8	2.7	2.1
82.5°	6.4	3.8	1.6	2.1	2.1	2.7	2.7	2.1	1.6	0.5	0.0
85°	2.1	1.6	1.1	1.6	1.6	1.6	1.1	1.1	0.5	0.0	0.0
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	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)