

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: P401288

Luminaire Tested: **ENV-SA1C-735-U-SL2**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401288
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1C-735-U-SL2
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4186 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-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

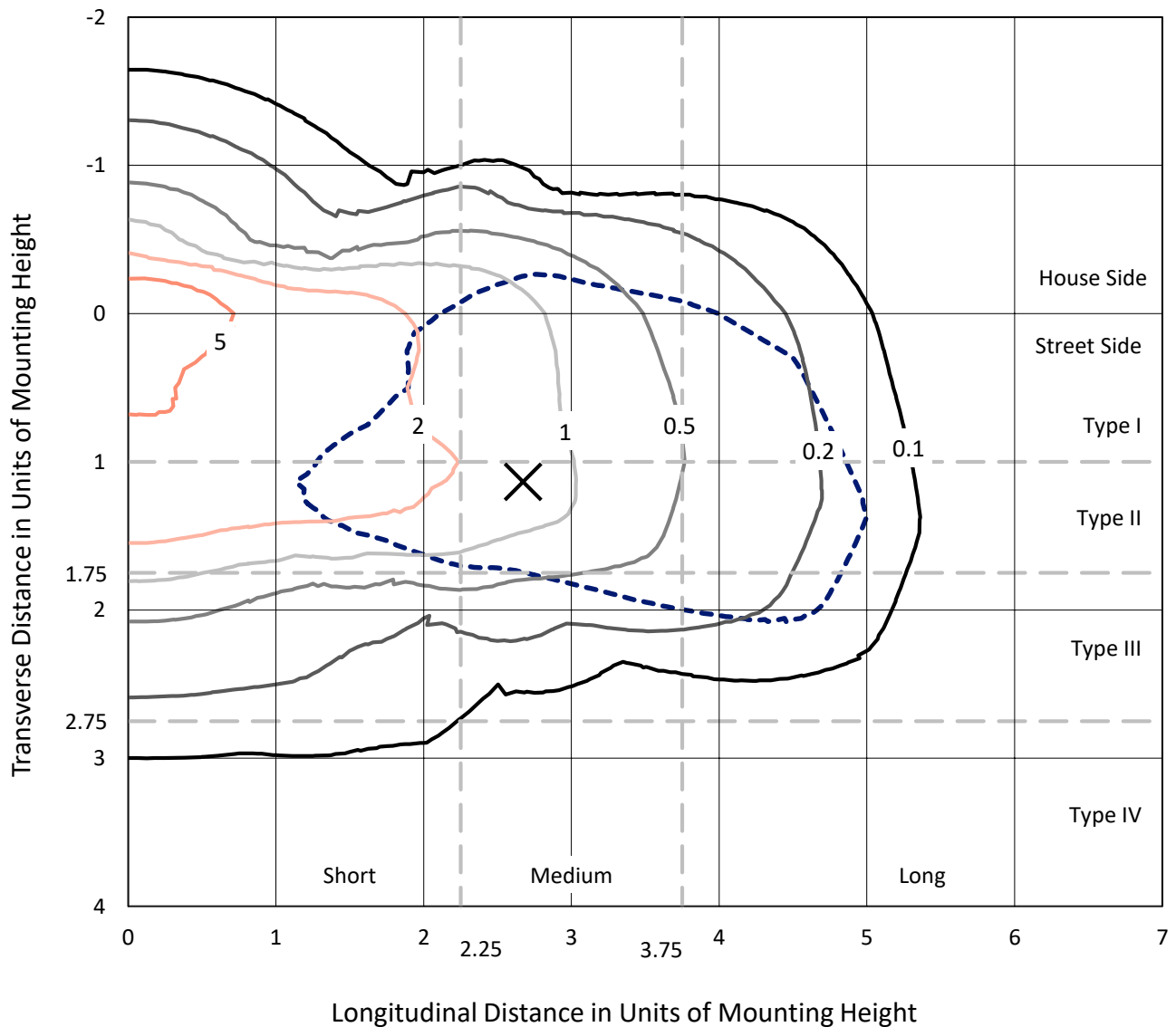


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

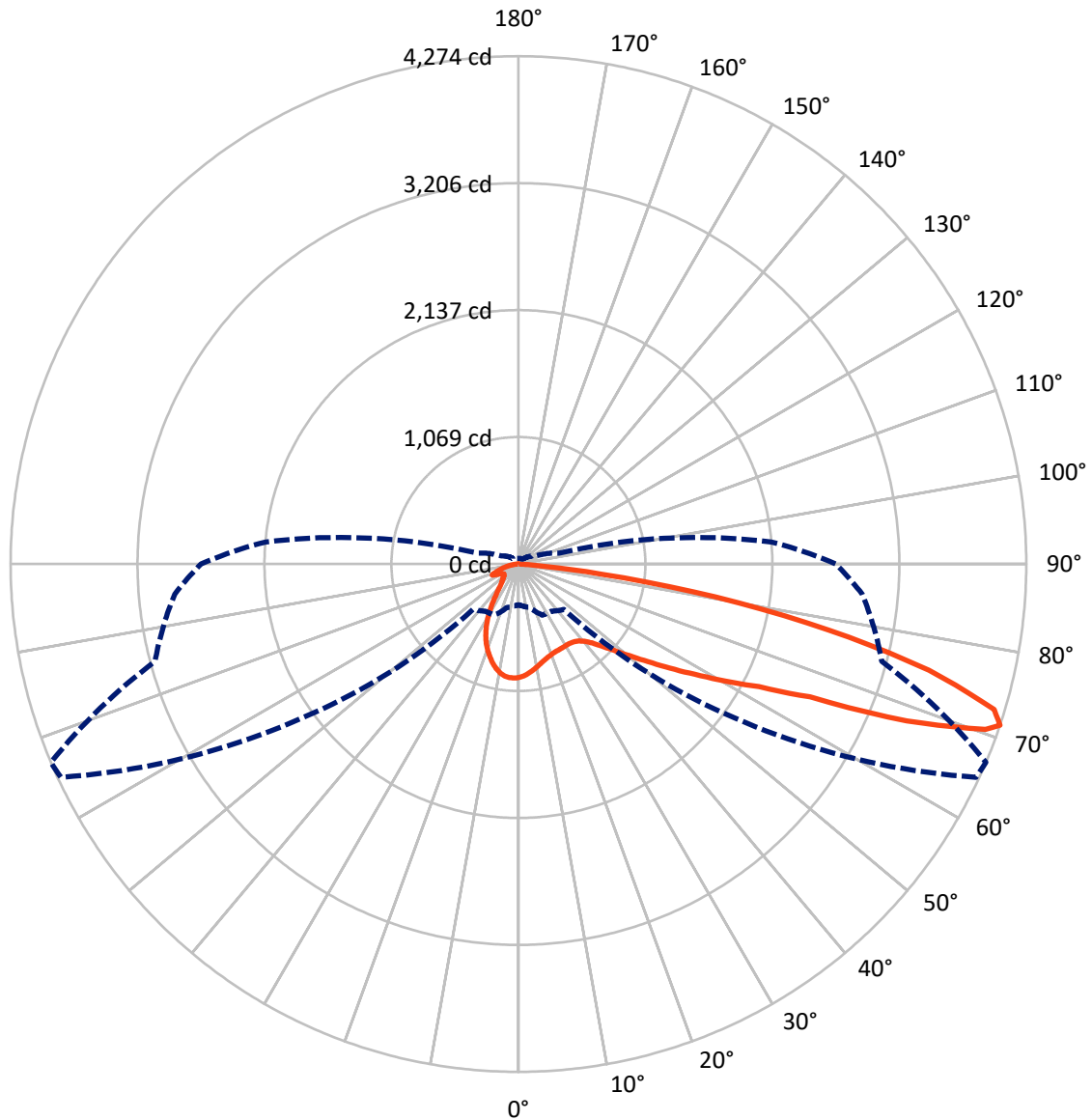


Based on 10 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	857.6	0.0	857.6
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	3328.4	0.0	3328.4
	% Fixture	79.5	0.0	79.5
Total	Lumens	4186.0	0.0	4186.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	2.0
10°-20°	207.9	5.0
20°-30°	280.6	6.7
30°-40°	369.6	8.8
40°-50°	526.5	12.6
50°-60°	804.3	19.2
60°-70°	1004.2	24.0
70°-80°	810.6	19.4
80°-90°	97.7	2.3
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°	4186.0	100.0
0°-180°	4186.0	100.0



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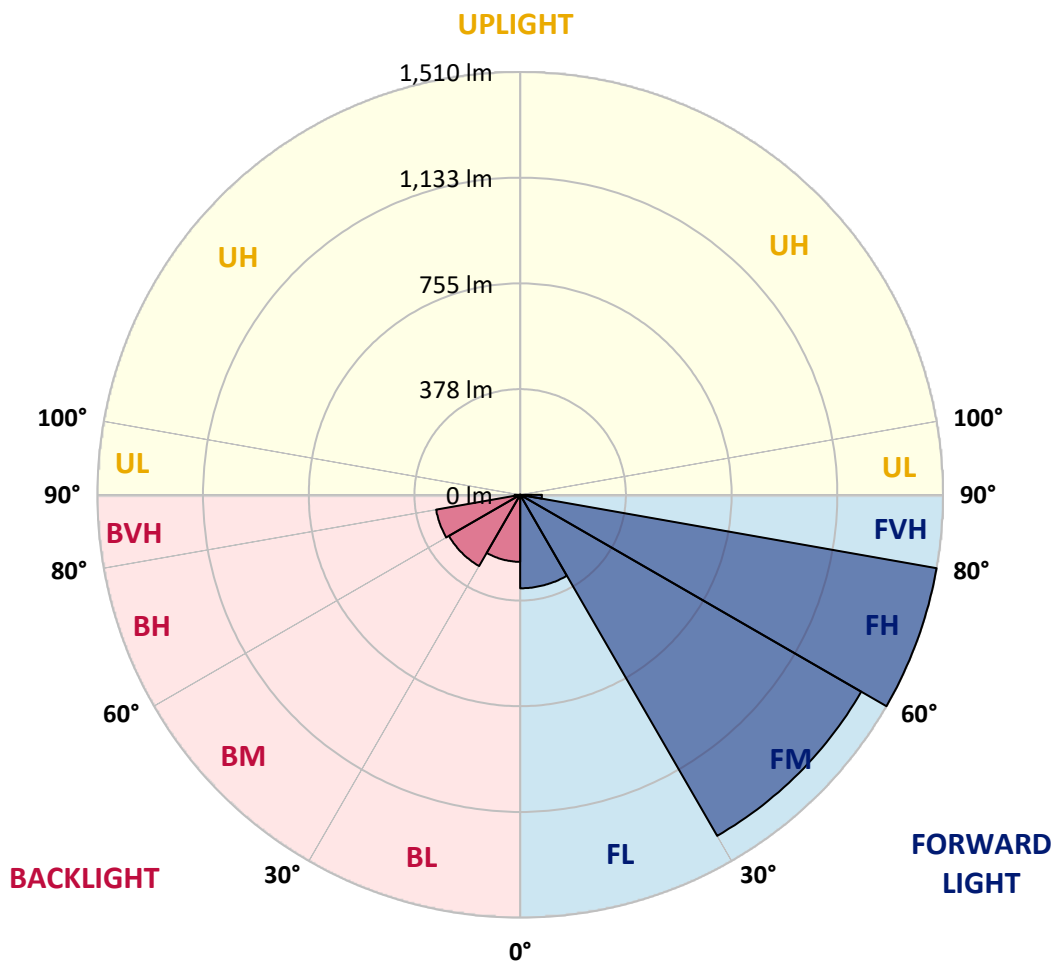
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	333.8	8.0			
FM	(30°-60°)	1406.6	33.6			
FH	(60°-80°)	1510.1	36.1			G1/1800
FVH	(80°-90°)	77.9	1.9			G1/100
BL	(0°-30°)	239.3	5.7	B1/500		
BM	(30°-60°)	293.8	7.0	B1/1000		
BH	(60°-80°)	304.7	7.3	B1/500		G1/500
BVH	(80°-90°)	19.8	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	954.5	954.5	954.5	954.5	954.5	954.5	954.5	954.5	954.5	954.5	954.5
2.5°	900.3	904.5	905.1	913.5	916.6	926.2	931.6	940.7	941.9	947.3	950.9
5°	841.8	842.4	846.1	853.3	864.7	882.2	895.5	917.8	922.0	937.6	951.5
7.5°	789.4	792.4	798.4	809.3	822.5	843.0	863.5	894.3	900.3	925.6	952.1
10°	753.9	756.9	761.7	773.7	787.0	809.9	834.6	870.2	876.8	911.7	950.3
12.5°	725.5	728.5	732.2	745.4	759.9	782.8	808.1	847.9	854.5	894.9	946.1
15°	706.9	707.5	712.3	723.1	739.4	761.7	787.0	828.0	835.8	881.6	944.9
17.5°	695.4	696.6	700.8	709.3	723.7	745.4	770.1	811.7	820.7	870.8	945.5
20°	696.0	697.2	699.6	702.6	712.9	731.6	757.5	799.7	808.7	864.1	949.7
22.5°	708.7	709.3	709.9	705.6	709.3	722.5	747.8	791.2	800.9	861.1	954.5
25°	732.8	732.8	731.6	721.9	714.1	719.5	742.4	788.2	797.8	858.7	959.3
27.5°	765.9	768.3	762.3	750.8	732.8	723.7	741.2	785.8	795.4	858.7	961.8
30°	811.1	812.3	809.9	794.8	765.3	740.6	744.8	784.0	793.6	857.5	962.4
32.5°	856.9	860.5	863.5	850.3	814.7	770.7	759.3	786.4	794.8	856.9	960.5
35°	903.3	905.7	920.2	917.8	879.2	815.9	782.8	796.0	803.3	859.9	961.8
37.5°	943.1	948.5	969.6	985.9	955.7	877.4	823.2	817.1	821.3	875.0	968.4
40°	985.9	993.7	1025.0	1055.8	1042.5	954.5	880.4	855.1	853.9	902.7	984.6
42.5°	1034.1	1043.1	1083.5	1128.1	1132.3	1052.7	956.9	908.7	907.5	950.3	1020.2
45°	1090.7	1099.1	1154.0	1207.0	1232.9	1162.4	1050.9	984.6	985.3	1016.6	1076.8
47.5°	1160.6	1173.9	1226.9	1294.4	1340.8	1285.9	1164.8	1090.7	1085.9	1116.6	1169.6
50°	1258.8	1269.7	1313.7	1379.4	1460.7	1435.4	1308.2	1218.5	1214.8	1229.3	1293.8
52.5°	1361.9	1365.5	1386.6	1454.7	1591.5	1616.8	1484.8	1376.9	1363.1	1370.9	1448.0
55°	1367.9	1375.7	1389.6	1475.8	1709.0	1834.3	1679.4	1563.7	1545.7	1540.2	1623.4
57.5°	1242.6	1255.2	1273.3	1384.8	1713.8	2085.6	1956.0	1781.9	1749.3	1722.2	1810.8
60°	976.8	993.1	1026.2	1163.0	1591.5	2229.0	2417.6	2026.5	1997.6	1905.4	1994.0
62.5°	706.2	712.9	744.8	806.3	1263.1	2237.5	2898.5	2345.9	2274.2	2083.8	2151.9
65°	568.9	579.7	589.3	588.7	747.8	1984.4	3217.9	2914.2	2697.8	2283.3	2325.4
67.5°	468.8	472.4	495.9	536.9	508.6	1225.7	3249.8	3744.6	3525.2	2552.0	2531.5
70°	391.7	392.9	416.4	489.9	486.9	632.7	2725.0	4222.4	4169.4	2993.1	2853.9
71°	342.9	353.1	379.0	474.2	484.5	540.5	2315.2	4247.7	4274.2	3166.1	2903.9
72.5°	270.0	270.0	306.7	435.1	488.7	499.0	1706.0	4109.7	4186.3	3362.5	2817.2
75°	158.5	157.3	177.2	303.1	499.6	497.1	931.6	3415.5	3570.4	3398.1	2607.5
77.5°	89.2	91.0	101.8	168.7	396.5	477.3	535.1	2486.9	2669.5	2842.5	2204.9
80°	41.0	43.4	51.2	82.0	233.8	412.2	382.0	1615.0	1684.3	1708.4	1041.9
82.5°	10.8	12.1	15.7	31.3	90.4	280.8	282.6	676.1	698.4	403.7	223.6
85°	0.0	0.0	0.0	0.0	1.2	34.3	80.1	121.7	101.2	53.6	45.8
87.5°	0.0	0.0	0.0	0.0	0.0	1.2	1.8	2.4	2.4	2.4	3.0
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°	954.5	954.5	954.5	954.5	954.5	954.5	954.5	954.5	954.5	954.5	954.5
2.5°	953.9	956.3	960.5	959.9	958.7	951.5	955.7	951.5	950.9	949.1	949.7
5°	956.3	959.9	962.4	956.9	947.9	932.2	926.8	912.9	903.9	899.1	896.7
7.5°	959.9	962.4	961.1	946.1	922.6	893.1	867.7	847.9	826.8	823.2	821.9
10°	959.9	962.4	952.7	923.8	883.4	837.0	798.4	765.9	733.4	721.3	723.1
12.5°	957.5	958.7	936.4	890.0	831.6	768.3	714.1	660.5	618.9	593.6	588.7
15°	955.7	953.9	914.7	847.9	770.1	691.8	609.8	537.5	488.1	455.0	450.7
17.5°	955.7	949.1	888.8	799.7	703.2	595.4	486.9	408.6	353.7	334.4	333.8
20°	956.9	942.5	861.1	749.6	620.1	480.9	363.4	296.5	276.0	273.0	273.6
22.5°	958.1	933.4	831.0	693.0	527.3	358.5	259.7	235.6	237.4	244.7	244.1
25°	956.9	921.4	795.4	629.7	426.0	258.5	209.7	203.7	214.5	223.0	225.4
27.5°	953.9	905.7	757.5	554.4	324.8	203.7	183.2	182.6	193.4	201.3	200.7
30°	944.9	887.0	713.5	474.8	234.4	173.5	165.1	166.9	174.2	181.4	181.4
32.5°	935.2	865.9	667.1	388.1	180.2	157.3	154.3	154.9	159.7	165.1	164.5
35°	925.0	845.4	619.5	297.7	157.9	147.6	146.4	145.8	147.6	148.8	148.8
37.5°	919.0	827.4	567.0	224.2	145.8	141.6	139.2	136.8	136.2	135.0	133.8
40°	921.4	815.3	516.4	173.5	138.6	135.0	131.4	127.8	125.3	124.1	123.5
42.5°	938.2	811.7	460.4	149.4	132.0	129.0	124.1	118.1	115.7	115.7	115.1
45°	977.4	822.5	408.0	137.4	125.9	122.3	114.5	110.3	108.5	109.1	109.1
47.5°	1038.9	853.3	361.0	131.4	121.7	116.3	107.3	103.0	101.8	102.4	102.4
50°	1131.1	911.1	312.7	125.9	116.9	109.7	101.8	97.0	95.2	95.2	95.2
52.5°	1266.1	1006.3	277.8	122.3	112.7	104.2	96.4	91.0	88.6	88.6	88.0
55°	1430.6	1130.5	264.5	119.9	107.3	99.4	91.0	85.6	82.0	80.7	81.4
57.5°	1610.8	1291.4	283.8	119.3	101.2	94.0	85.6	78.9	75.3	74.7	74.1
60°	1796.4	1451.1	339.3	116.3	96.4	87.4	79.5	73.5	69.9	68.7	68.1
62.5°	1956.6	1610.1	430.9	113.9	92.8	81.4	72.9	67.5	64.5	62.7	62.7
65°	2150.1	1792.7	570.7	116.9	91.0	75.3	66.9	62.1	59.7	57.8	57.8
67.5°	2414.0	2063.3	676.7	131.4	95.2	70.5	60.3	56.6	54.8	53.6	53.6
70°	2673.7	2215.2	470.6	154.3	106.1	66.3	54.2	51.8	50.6	49.4	49.4
71°	2670.1	2133.8	353.7	159.7	109.7	65.1	51.8	50.0	48.8	48.2	47.6
72.5°	2536.3	1939.8	253.7	154.9	107.9	61.5	48.8	47.0	45.8	45.8	45.2
75°	2274.8	1709.6	198.3	129.6	90.4	54.8	43.4	42.2	41.0	40.4	41.0
77.5°	1863.8	1367.9	156.1	102.4	68.7	45.2	38.6	36.8	36.2	35.6	36.2
80°	856.3	596.0	113.9	79.5	51.2	36.2	32.5	31.9	31.3	30.7	30.7
82.5°	206.1	166.9	60.9	53.0	35.0	27.7	25.9	25.9	25.9	25.3	25.3
85°	45.2	45.2	24.7	24.7	21.1	19.3	20.5	20.5	20.5	19.3	19.3
87.5°	2.4	7.2	7.8	11.4	12.1	11.4	13.9	14.5	13.9	13.3	12.7
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)