

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: P401306

Luminaire Tested: **ENT-SA1C-740-U-SL2-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1C-740-U-SL2-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3646 lumens
Efficiency: N/A
Efficacy: 109.5 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

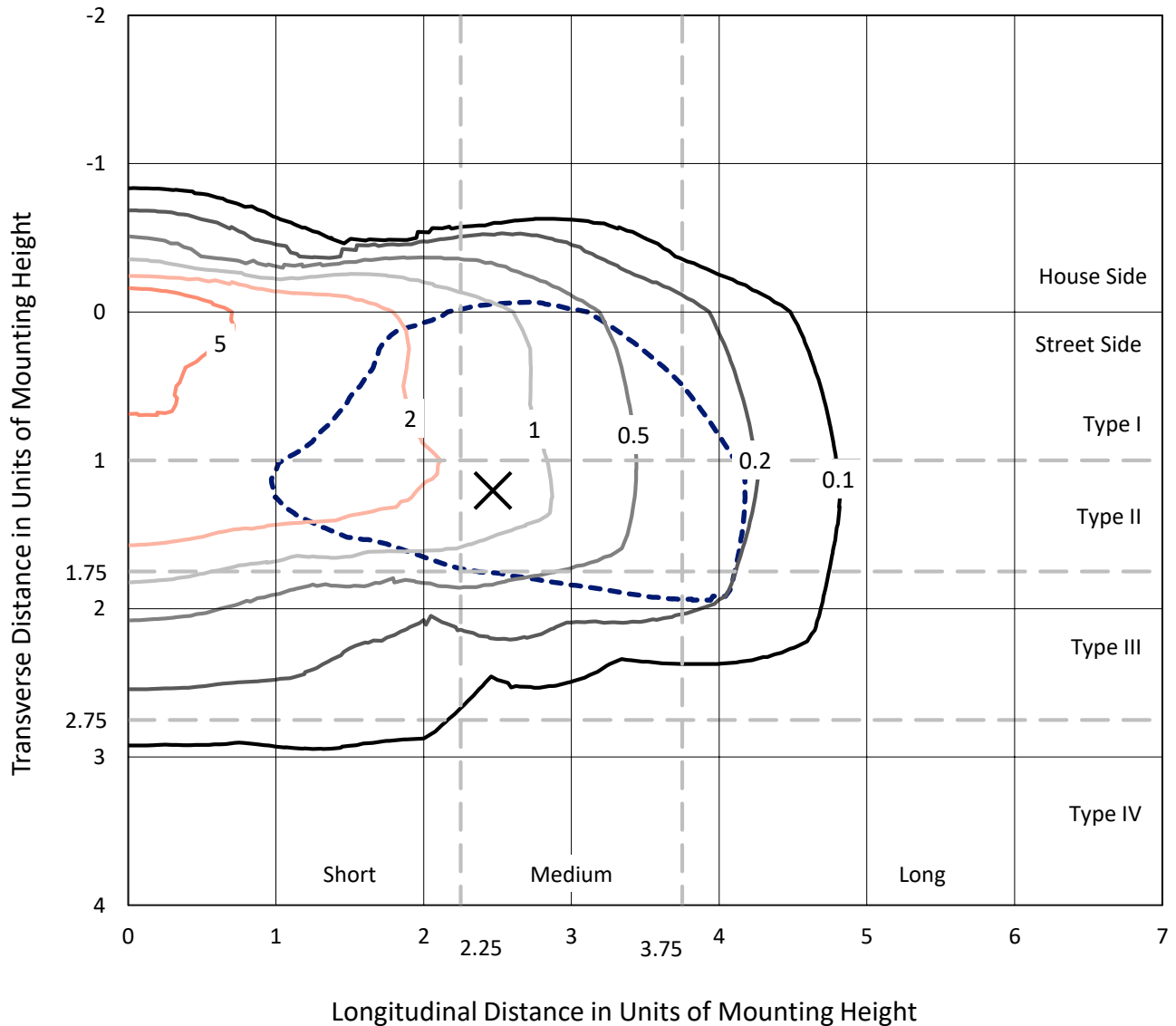
Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

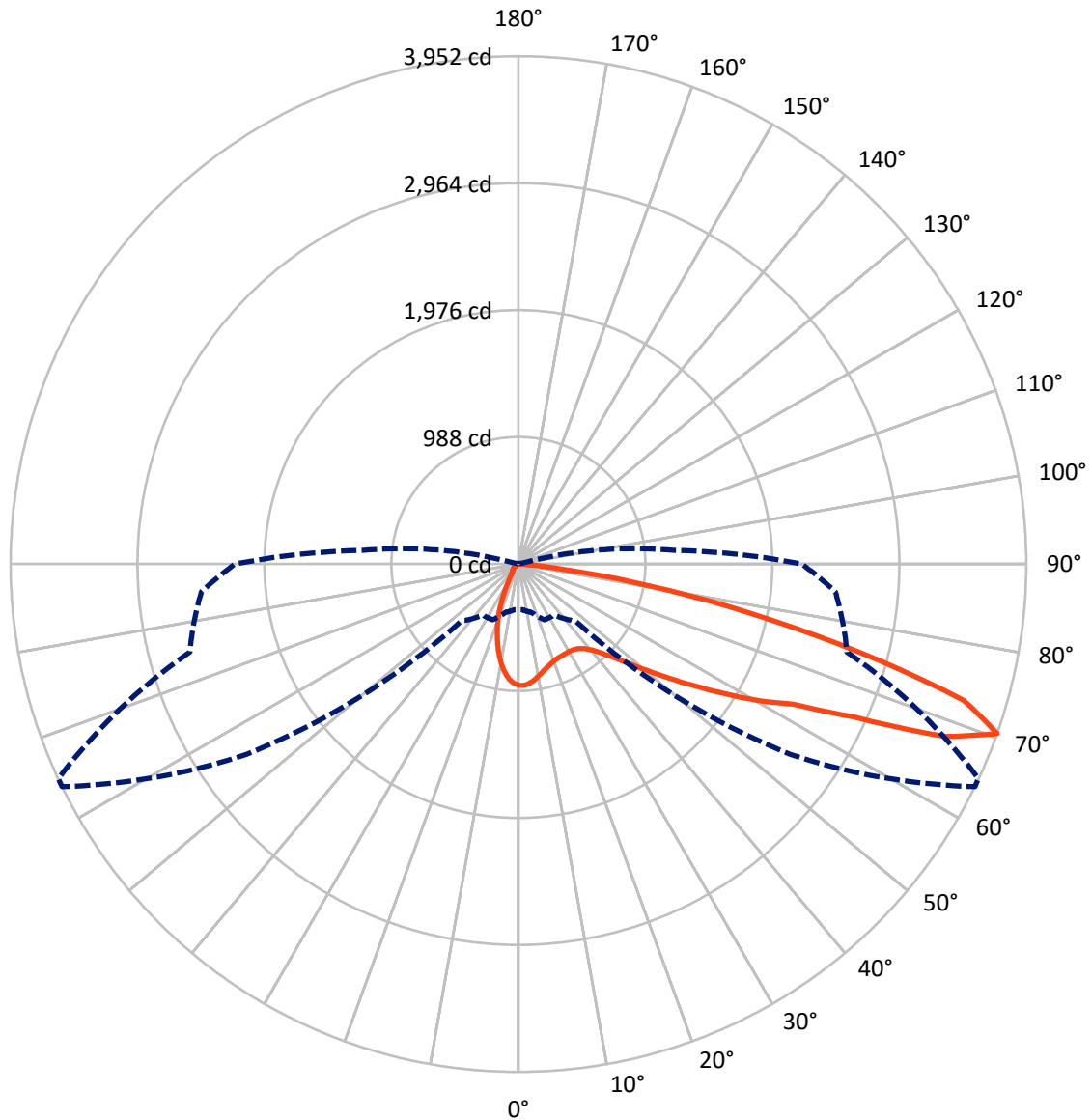
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	468.4	0.0	468.4
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3177.6	0.0	3177.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	3646.0	0.0	3646.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	2.2
10°-20°	176.5	4.8
20°-30°	243.1	6.7
30°-40°	334.7	9.2
40°-50°	498.9	13.7
50°-60°	788.1	21.6
60°-70°	893.0	24.5
70°-80°	586.3	16.1
80°-90°	46.0	1.3
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°	3646.0	100.0
0°-180°	3646.0	100.0



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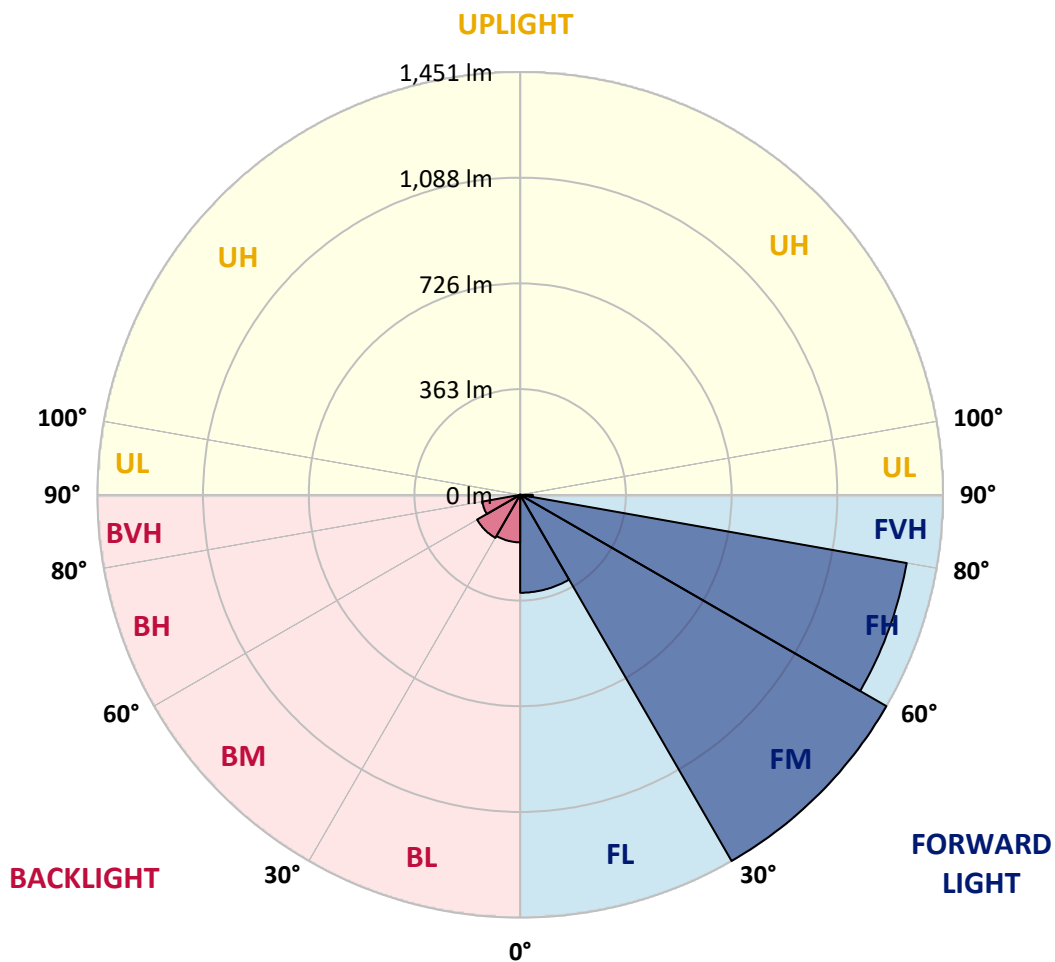
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	336.1	9.2			
FM	(30°-60°)	1451.1	39.8			
FH	(60°-80°)	1347.1	36.9			G1/1800
FVH	(80°-90°)	43.4	1.2			G1/100
BL	(0°-30°)	163.0	4.5	B1/500		
BM	(30°-60°)	170.6	4.7	B0/220		
BH	(60°-80°)	132.2	3.6	B1/500		G1/500
BVH	(80°-90°)	2.5	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8
2.5°	917.5	917.5	922.0	926.5	929.1	936.1	941.2	945.1	945.1	947.7	943.2
5°	856.6	856.6	860.5	871.4	882.9	897.6	914.3	931.0	934.2	946.4	945.7
7.5°	800.2	805.3	811.7	822.6	834.8	856.6	879.7	908.5	911.8	941.2	947.7
10°	761.1	764.3	768.1	780.3	798.3	823.3	848.3	882.3	888.0	932.3	947.7
12.5°	729.7	730.3	736.1	749.5	766.8	791.2	819.4	856.6	863.7	916.2	945.1
15°	707.2	706.6	713.0	725.8	742.5	767.5	795.1	834.2	841.9	902.8	944.5
17.5°	693.8	694.4	699.5	709.1	725.2	748.9	777.1	815.6	823.3	891.9	947.7
20°	693.8	693.8	697.0	701.4	713.6	734.8	762.4	802.1	809.8	884.8	952.1
22.5°	707.2	705.9	708.5	704.7	710.4	725.2	753.4	793.1	801.5	881.6	959.2
25°	731.6	729.0	730.9	722.6	716.2	722.6	747.6	789.3	798.3	882.3	965.6
27.5°	765.6	765.6	761.7	750.2	734.1	727.1	747.0	786.7	795.7	882.3	970.1
30°	813.0	811.1	805.3	793.8	768.8	745.0	753.4	786.7	795.7	882.9	971.4
32.5°	860.5	861.7	864.9	853.4	819.4	775.8	768.8	792.5	800.2	882.3	969.5
35°	908.5	909.2	923.3	924.6	881.0	825.2	795.1	807.9	813.0	888.7	970.7
37.5°	950.9	954.1	981.6	995.1	959.2	888.7	836.7	836.7	839.3	906.0	978.4
40°	998.3	1006.6	1040.0	1070.1	1056.0	970.1	897.6	879.1	880.3	937.4	995.7
42.5°	1053.5	1063.7	1107.3	1150.9	1150.3	1070.1	974.6	946.4	947.7	991.9	1031.0
45°	1123.3	1130.4	1185.5	1240.0	1251.6	1180.4	1071.4	1034.2	1035.5	1074.6	1099.6
47.5°	1208.6	1217.0	1270.2	1335.6	1365.1	1313.1	1197.1	1156.7	1152.8	1180.4	1198.4
50°	1320.2	1336.2	1367.6	1430.5	1501.6	1467.0	1344.5	1304.2	1299.0	1320.8	1326.6
52.5°	1426.6	1441.4	1454.2	1511.9	1649.7	1658.1	1525.4	1481.1	1476.0	1481.1	1488.2
55°	1442.6	1451.0	1460.6	1538.8	1769.6	1901.1	1731.2	1678.6	1663.9	1654.2	1678.0
57.5°	1315.1	1309.9	1342.0	1448.4	1789.5	2169.7	2009.4	1907.5	1893.4	1840.2	1816.5
60°	1041.3	1034.2	1064.4	1209.9	1678.0	2303.1	2395.4	2160.8	2126.1	1947.9	1924.8
62.5°	731.6	723.2	762.4	848.3	1301.6	2276.8	2830.8	2400.6	2332.0	2043.4	2012.0
65°	563.6	559.7	580.9	600.1	794.4	1972.3	3070.6	2868.6	2726.9	2147.3	2106.9
67.5°	441.8	446.9	473.2	529.0	512.9	1229.1	3048.2	3582.9	3441.2	2338.4	2312.7
70°	355.2	356.5	389.2	478.3	484.1	625.8	2580.7	3952.2	3950.3	2646.8	2476.2
72.5°	214.8	220.6	273.8	413.6	488.6	479.0	1735.0	3621.4	3671.4	2718.6	2233.2
75°	103.2	109.0	141.7	277.6	485.4	466.1	938.7	2741.7	2805.8	2437.8	1810.7
77.5°	38.5	43.6	65.4	135.9	359.7	427.0	493.7	1848.5	1899.2	1784.4	1226.6
80°	12.2	14.1	25.6	62.2	182.7	352.6	318.0	1042.6	1076.5	781.0	412.3
82.5°	1.3	1.9	7.1	21.2	70.5	179.5	186.6	392.4	409.7	152.6	83.4
85°	0.0	0.0	0.0	0.0	1.3	1.3	46.2	75.0	61.6	14.7	24.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.6	1.3	1.9	1.9	1.9	2.6
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°	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8
2.5°	942.5	942.5	938.0	931.0	922.0	909.2	906.0	895.7	895.7	887.4	886.1
5°	943.8	940.0	925.2	903.4	873.3	840.6	820.1	797.6	778.4	766.2	767.5
7.5°	943.8	935.5	906.0	857.9	801.5	745.0	702.1	652.1	629.0	613.6	620.7
10°	941.2	927.1	875.8	802.8	713.6	635.4	564.9	507.2	467.4	450.7	436.6
12.5°	935.5	915.0	838.0	734.1	620.0	517.4	420.0	344.3	291.7	265.4	262.2
15°	930.3	902.1	793.8	659.1	514.2	380.2	271.2	198.8	153.9	143.6	144.9
17.5°	929.1	890.0	751.5	579.6	411.0	253.3	156.4	126.3	119.9	117.3	116.7
20°	929.7	879.1	705.3	500.8	291.1	157.7	118.6	111.6	109.0	107.7	107.1
22.5°	932.3	866.9	659.8	418.0	198.8	115.4	105.8	101.3	98.1	96.2	95.5
25°	932.3	853.4	609.1	330.2	130.2	101.3	94.9	89.1	84.6	82.1	82.1
27.5°	930.3	838.0	556.5	250.7	103.2	90.4	83.4	75.7	69.9	66.7	66.7
30°	924.6	819.4	505.9	175.0	90.4	80.8	71.8	62.2	55.1	51.9	50.7
32.5°	916.2	799.5	447.5	123.1	81.4	70.5	60.3	50.0	43.6	39.8	39.8
35°	907.3	779.7	384.7	94.3	73.7	62.2	50.7	40.4	34.6	32.1	31.4
37.5°	902.8	758.5	323.2	81.4	66.0	53.2	41.0	32.7	28.2	26.3	25.6
40°	906.0	742.5	262.9	73.1	59.0	44.9	34.0	27.6	23.7	21.2	21.2
42.5°	925.2	733.5	205.8	66.7	52.6	37.8	28.2	22.4	18.6	16.7	16.7
45°	964.3	739.9	156.4	60.9	44.9	31.4	23.7	18.0	14.1	12.2	12.2
47.5°	1029.7	765.6	118.6	55.8	38.5	25.6	19.2	14.1	10.9	9.6	9.0
50°	1125.3	816.2	93.0	50.7	32.1	21.8	16.0	10.9	8.3	7.1	7.1
52.5°	1263.1	904.1	79.5	44.9	26.3	18.0	12.8	8.3	6.4	5.1	5.1
55°	1432.4	1015.6	71.8	39.8	21.2	14.7	10.3	6.4	4.5	3.8	3.2
57.5°	1569.6	1104.1	67.3	34.6	18.0	12.8	7.7	5.1	3.8	2.6	2.6
60°	1690.8	1161.2	59.6	28.9	15.4	10.3	6.4	3.8	2.6	1.9	1.9
62.5°	1788.9	1198.4	49.4	23.1	12.8	8.3	5.1	3.2	2.6	1.9	1.9
65°	1900.4	1228.5	40.4	18.0	10.9	7.1	4.5	2.6	1.9	1.9	1.9
67.5°	2119.1	1295.8	30.1	14.1	8.3	5.8	3.8	2.6	1.9	1.3	1.3
70°	2204.4	1217.0	23.7	11.5	6.4	5.1	3.8	2.6	1.3	1.3	1.3
72.5°	1876.1	911.1	18.6	9.6	5.8	4.5	3.8	2.6	1.9	1.9	1.3
75°	1488.2	615.5	14.7	7.7	5.8	5.1	3.8	3.8	3.2	2.6	2.6
77.5°	950.2	272.5	11.5	6.4	5.8	6.4	5.8	3.8	3.8	3.2	3.2
80°	283.4	65.4	8.3	5.1	4.5	5.1	5.8	3.8	2.6	1.9	1.9
82.5°	61.6	15.4	5.1	2.6	3.2	2.6	3.8	3.8	2.6	1.9	1.9
85°	20.5	5.8	3.2	2.6	1.9	1.9	1.9	1.9	1.9	1.9	1.3
87.5°	1.3	1.9	1.9	1.3	1.3	1.3	1.3	0.6	0.6	1.3	1.3
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)