

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: P401334

Luminaire Tested: **ENT-SA1C-740-U-T4FT-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401334
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: ENT-SA1C-740-U-T4FT-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 4000K, 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: 3195 lumens
Efficiency: N/A
Efficacy: 95.9 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

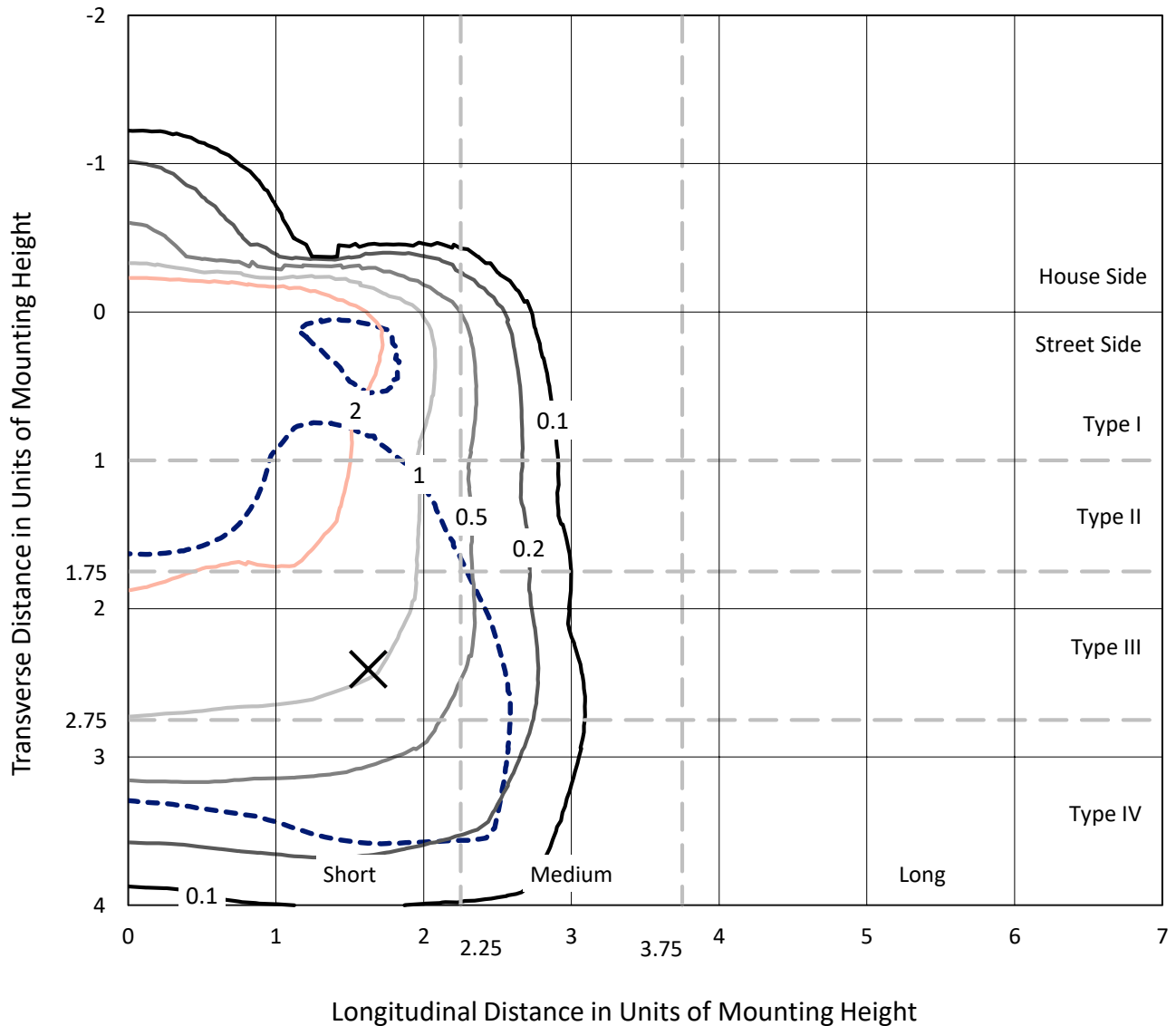


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

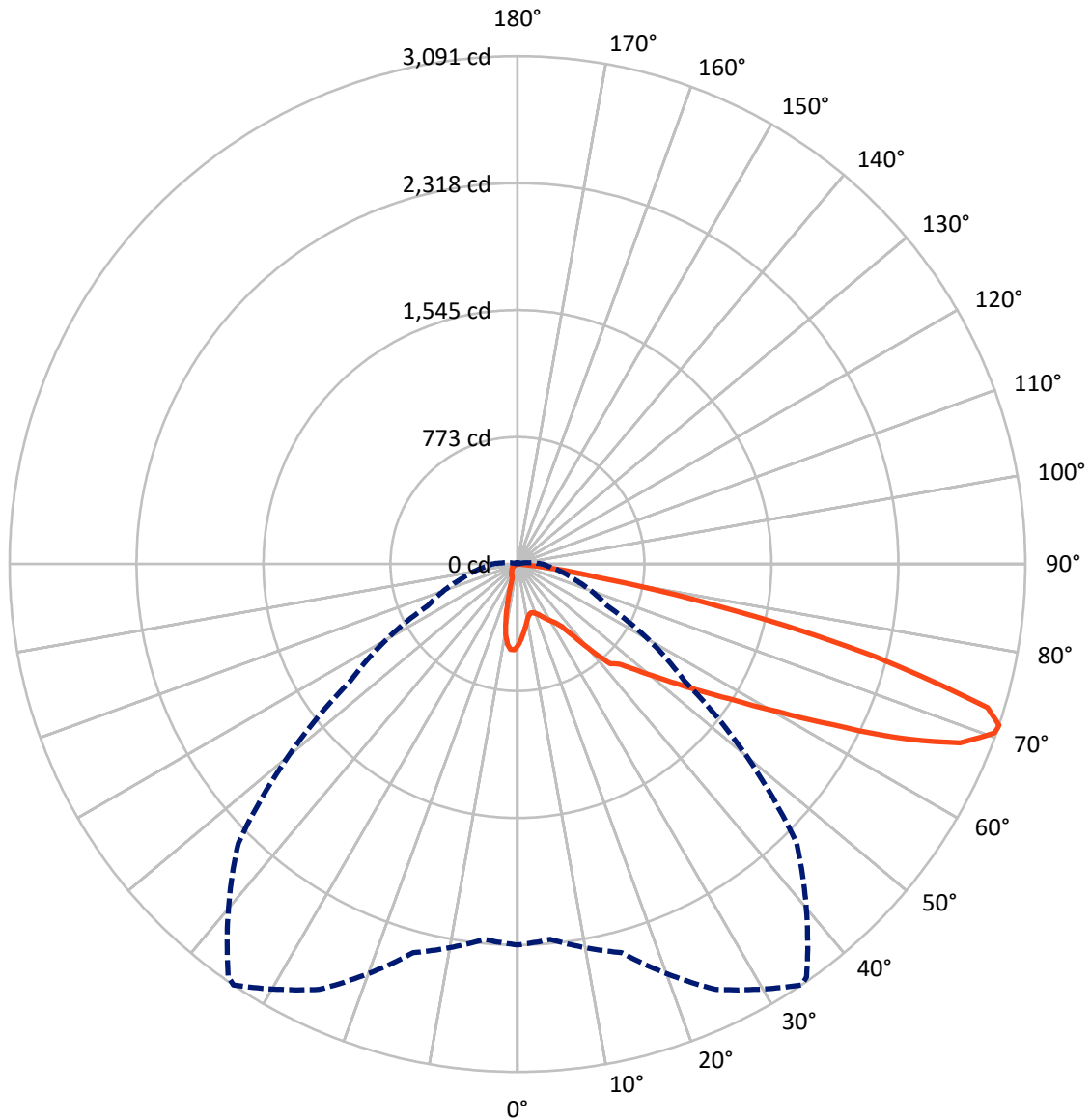


Based on 10 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - Semi-Cutoff

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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	353.3	0.0	353.3
	% Fixture	11.1	0.0	11.1
Street Side	Lumens	2841.7	0.0	2841.7
	% Fixture	88.9	0.0	88.9
Total	Lumens	3195.0	0.0	3195.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	1.4
10°-20°	100.0	3.1
20°-30°	149.3	4.7
30°-40°	249.3	7.8
40°-50°	450.2	14.1
50°-60°	714.4	22.4
60°-70°	960.0	30.0
70°-80°	509.4	15.9
80°-90°	18.8	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°	3195.0	100.0
0°-180°	3195.0	100.0



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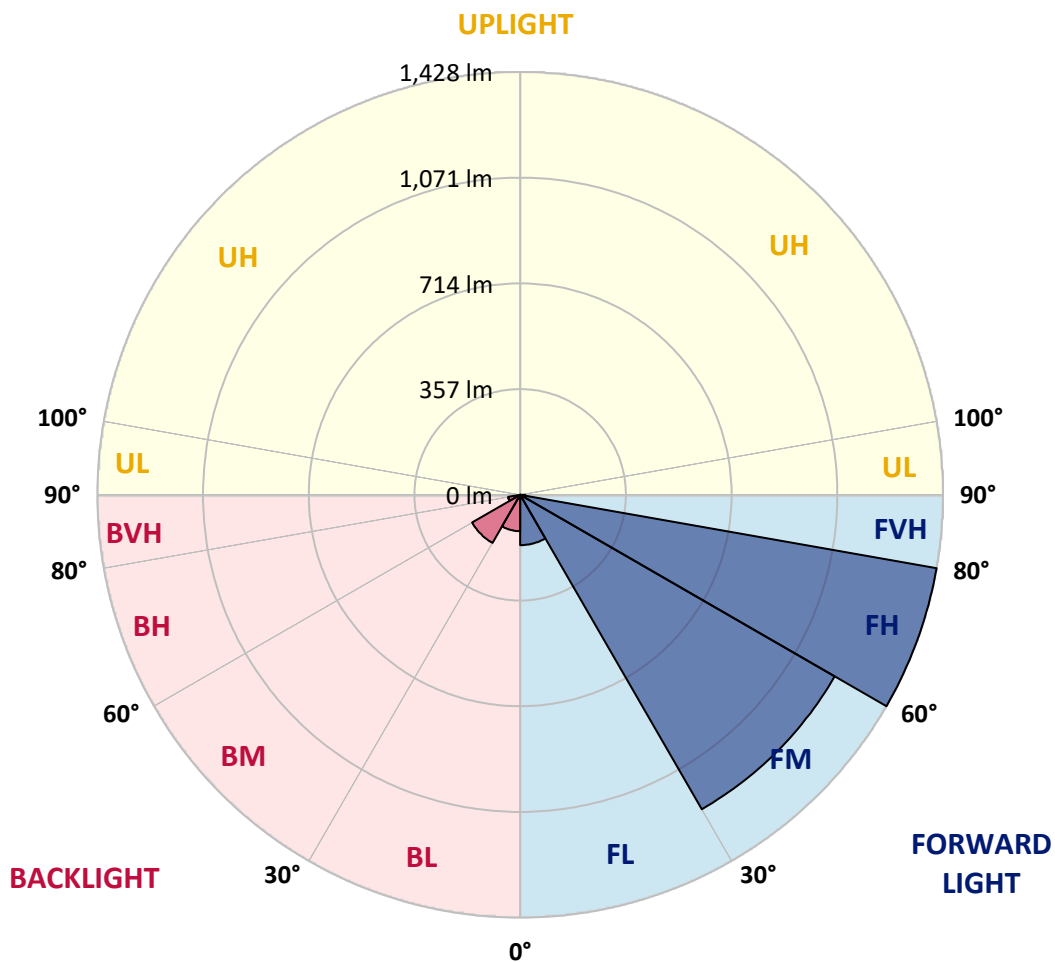
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	170.0	5.3			
FM	(30°-60°)	1226.5	38.4			
FH	(60°-80°)	1428.1	44.7			G1/1800
FVH	(80°-90°)	17.1	0.5			G1/100
BL	(0°-30°)	122.9	3.8	B1/500		
BM	(30°-60°)	187.5	5.9	B0/220		
BH	(60°-80°)	41.3	1.3	B0/110		G0/110
BVH	(80°-90°)	1.7	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°	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0
2.5°	450.8	445.0	450.2	452.7	454.6	457.2	461.1	468.1	475.8	484.8	489.9
5°	393.1	396.3	398.2	405.3	412.3	413.6	425.8	439.9	457.9	475.8	491.2
7.5°	346.3	346.3	352.0	362.9	374.5	375.8	396.9	415.5	441.2	468.8	493.8
10°	309.1	310.4	314.9	325.8	340.5	343.7	367.4	393.1	425.2	461.1	496.3
12.5°	296.9	296.3	295.6	303.3	315.5	318.7	345.0	375.8	413.6	457.2	502.7
15°	304.6	302.7	298.2	299.5	307.2	310.4	333.5	364.2	406.6	456.6	513.6
17.5°	316.8	314.2	305.9	303.3	311.6	314.9	334.1	361.0	404.0	459.8	526.5
20°	331.5	329.0	316.1	312.9	321.3	323.8	343.7	366.8	405.3	466.2	543.8
22.5°	352.7	349.5	330.9	327.0	335.4	337.9	359.1	380.3	413.0	477.7	567.5
25°	378.3	374.5	350.8	345.6	355.9	358.5	379.6	399.5	425.8	493.1	597.6
27.5°	406.6	402.1	377.1	366.8	378.3	382.2	402.1	423.9	444.4	512.4	637.4
30°	432.2	427.1	402.7	391.2	402.7	404.6	428.4	452.7	474.5	545.1	695.8
32.5°	503.4	490.6	452.7	419.4	427.1	430.9	459.8	498.3	531.0	584.2	770.8
35°	609.8	599.6	553.4	495.7	468.8	470.0	507.2	556.0	570.7	629.7	863.8
37.5°	712.4	703.5	663.1	609.8	558.5	560.5	566.9	613.7	631.0	708.6	977.3
40°	824.7	810.5	778.5	727.8	692.6	684.2	652.8	685.5	723.3	808.0	1101.0
42.5°	876.6	863.1	829.8	833.0	829.1	814.4	752.2	797.7	840.0	952.3	1237.6
45°	962.5	936.2	867.6	872.7	867.6	868.9	884.3	950.3	986.9	1104.9	1392.2
47.5°	1042.0	1011.9	940.1	934.9	957.4	968.9	1051.7	1131.8	1135.0	1237.6	1513.4
50°	1114.5	1092.7	1026.6	1027.3	1068.3	1081.2	1246.6	1319.7	1254.9	1339.6	1608.3
52.5°	1210.7	1179.9	1120.9	1142.1	1206.2	1217.7	1440.9	1484.5	1341.5	1431.9	1682.7
55°	1299.8	1283.1	1239.5	1271.0	1369.1	1399.2	1638.4	1611.5	1402.4	1514.0	1718.6
57.5°	1446.0	1430.0	1418.5	1434.5	1565.9	1603.8	1838.5	1701.2	1449.9	1568.5	1701.9
60°	1689.7	1673.7	1639.0	1653.8	1825.0	1844.2	1995.6	1792.3	1468.5	1583.9	1636.5
62.5°	1990.5	1970.6	1914.8	1982.8	2154.6	2154.0	2158.5	1840.4	1444.7	1538.4	1464.0
65°	2261.7	2234.1	2205.3	2343.8	2552.8	2524.0	2331.6	1846.2	1369.7	1318.4	1132.5
67.5°	2459.2	2448.3	2464.3	2680.4	2905.5	2876.7	2499.6	1766.7	1140.1	951.6	699.6
70°	2451.5	2429.1	2531.0	2876.0	3080.6	3056.9	2492.6	1451.8	760.5	504.0	293.1
71°	2318.8	2293.1	2448.3	2856.8	3090.8	3068.4	2402.8	1242.1	601.5	355.9	193.0
72.5°	1791.7	1869.3	2116.1	2650.9	2992.1	2963.2	2158.5	951.0	380.9	205.8	96.8
75°	758.0	800.3	1256.2	1892.3	2244.4	2229.6	1455.0	439.3	175.1	93.0	37.2
77.5°	194.9	192.4	384.8	811.8	1306.9	1330.0	670.8	150.7	91.1	66.0	21.2
80°	37.8	41.0	109.7	282.2	498.9	512.4	218.7	66.0	60.9	51.9	10.9
82.5°	3.8	4.5	19.2	87.2	167.4	161.6	48.1	25.0	37.2	35.3	5.1
85°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	2.6	9.0	9.6	1.3
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°	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0
2.5°	493.8	499.5	505.9	510.4	514.9	515.6	522.0	520.7	522.6	523.3	522.6
5°	499.5	507.2	519.4	525.8	528.4	523.9	522.6	515.6	513.0	509.8	506.6
7.5°	505.9	515.6	529.7	532.9	523.9	507.2	493.8	476.5	460.4	450.2	451.4
10°	513.0	525.2	536.7	528.4	505.3	472.6	434.8	396.3	362.3	349.5	354.0
12.5°	522.0	536.7	541.9	518.8	473.9	407.8	339.2	280.9	245.6	224.4	221.9
15°	535.4	550.2	544.4	503.4	423.9	320.6	235.3	176.3	142.4	131.5	125.7
17.5°	552.1	566.2	544.4	475.8	352.7	229.6	143.0	107.1	96.2	93.6	94.3
20°	572.6	586.1	541.9	434.1	271.9	141.1	95.5	88.5	88.5	88.5	87.9
22.5°	600.2	607.3	538.0	379.0	187.2	95.5	84.6	84.0	84.6	84.6	84.6
25°	633.6	632.3	531.0	312.9	118.0	81.4	80.8	80.8	81.4	82.1	82.1
27.5°	677.8	664.3	518.8	234.1	83.4	75.7	77.0	78.2	79.5	80.8	80.8
30°	739.4	706.7	498.9	158.4	70.5	69.9	72.5	76.3	78.2	79.5	79.5
32.5°	805.4	750.3	464.9	101.3	64.8	64.1	66.7	72.5	77.6	78.9	78.9
35°	888.8	797.1	414.3	73.1	60.9	59.6	62.2	67.3	75.0	78.9	78.9
37.5°	976.6	847.1	340.5	61.6	57.1	55.8	57.7	61.6	70.5	77.6	78.2
40°	1070.3	891.3	255.9	57.1	53.2	52.6	53.2	57.1	64.1	73.7	75.7
42.5°	1164.5	928.5	178.9	52.6	50.0	48.7	50.0	52.6	59.0	67.3	68.6
45°	1268.4	969.6	119.3	48.7	47.5	46.2	47.5	49.4	53.9	58.4	59.0
47.5°	1344.1	984.3	82.1	44.2	43.6	44.2	44.9	46.2	48.7	49.4	48.7
50°	1394.1	976.6	59.0	39.8	40.4	42.3	42.3	43.0	43.0	41.0	40.4
52.5°	1430.6	948.4	45.5	34.0	37.8	39.8	39.8	38.5	37.2	34.6	34.0
55°	1434.5	884.9	35.9	29.5	34.0	37.2	36.6	34.0	31.4	28.9	28.9
57.5°	1385.8	788.7	29.5	25.0	29.5	32.7	31.4	28.9	25.7	23.7	23.7
60°	1306.9	690.0	25.0	21.2	24.4	27.6	25.7	23.7	20.5	18.6	18.6
62.5°	1161.3	592.5	20.5	17.3	19.9	21.8	21.2	19.2	16.0	14.7	14.1
65°	890.1	450.8	15.4	13.5	15.4	18.0	16.7	14.7	12.8	10.9	10.3
67.5°	534.8	271.3	12.2	10.3	12.2	14.1	12.8	10.9	9.0	7.7	7.7
70°	226.4	116.1	9.6	7.7	9.0	10.9	10.3	9.0	7.1	6.4	6.4
71°	153.9	82.7	8.3	7.1	8.3	10.3	9.6	8.3	7.1	6.4	6.4
72.5°	78.9	42.3	7.1	5.8	7.7	9.0	9.0	7.7	6.4	6.4	6.4
75°	28.2	18.0	5.8	5.1	6.4	6.4	7.1	7.1	7.1	7.1	6.4
77.5°	16.0	10.9	5.1	5.1	5.1	5.8	7.1	7.7	8.3	8.3	7.7
80°	9.0	5.8	3.2	3.8	5.1	5.8	7.1	7.7	9.0	9.0	8.3
82.5°	4.5	1.9	0.6	1.9	3.2	5.1	5.8	6.4	7.7	7.1	7.1
85°	0.6	0.0	0.0	0.6	1.9	2.6	3.8	5.1	6.4	6.4	5.8
87.5°	0.0	0.0	0.0	0.0	0.6	1.3	1.9	3.2	4.5	5.1	4.5
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)