

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: P401099

Luminaire Tested: **ENT-SA1B-730-U-T2-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1B-730-U-T2-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K, 450mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2362 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 25.4
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

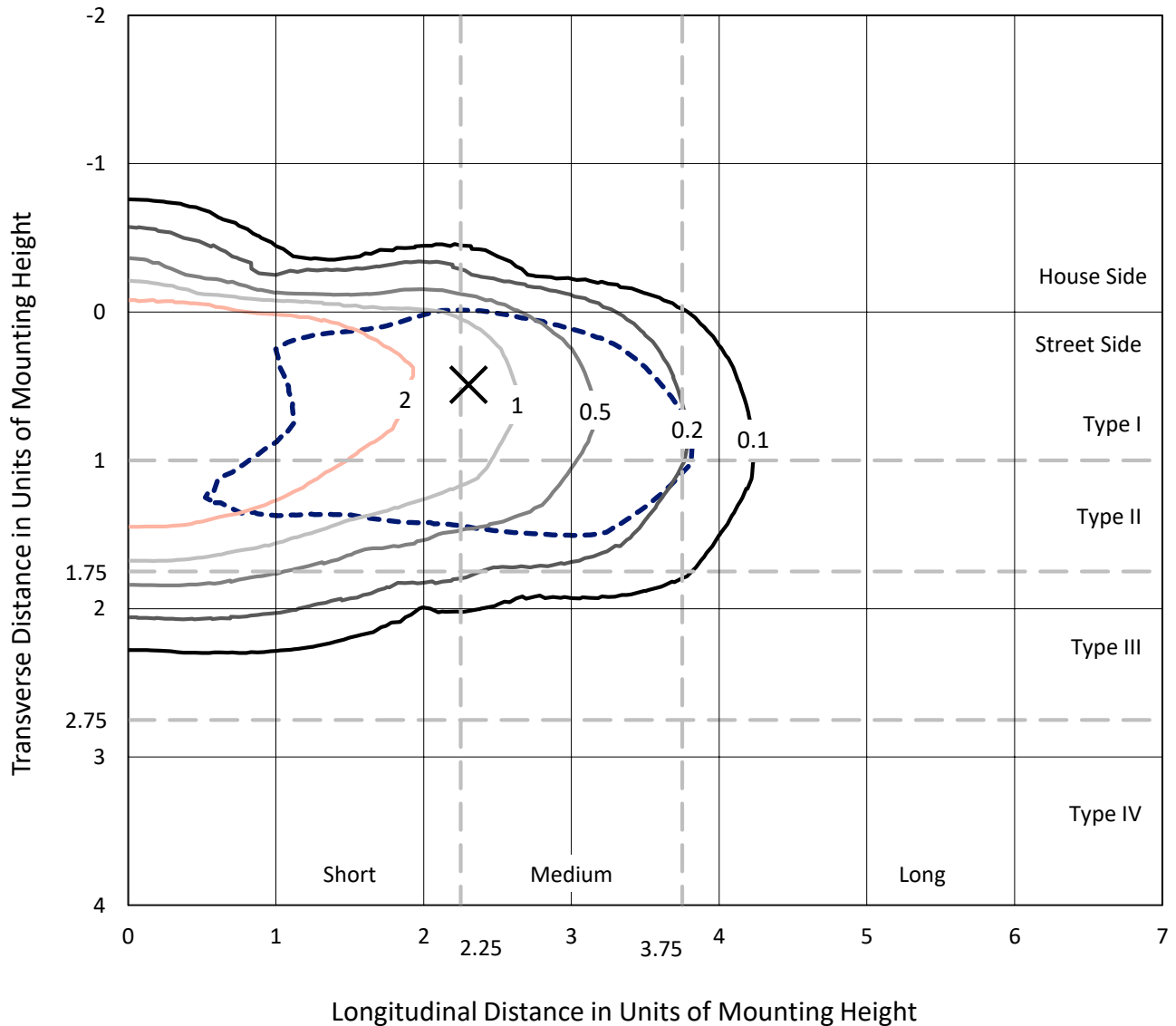


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

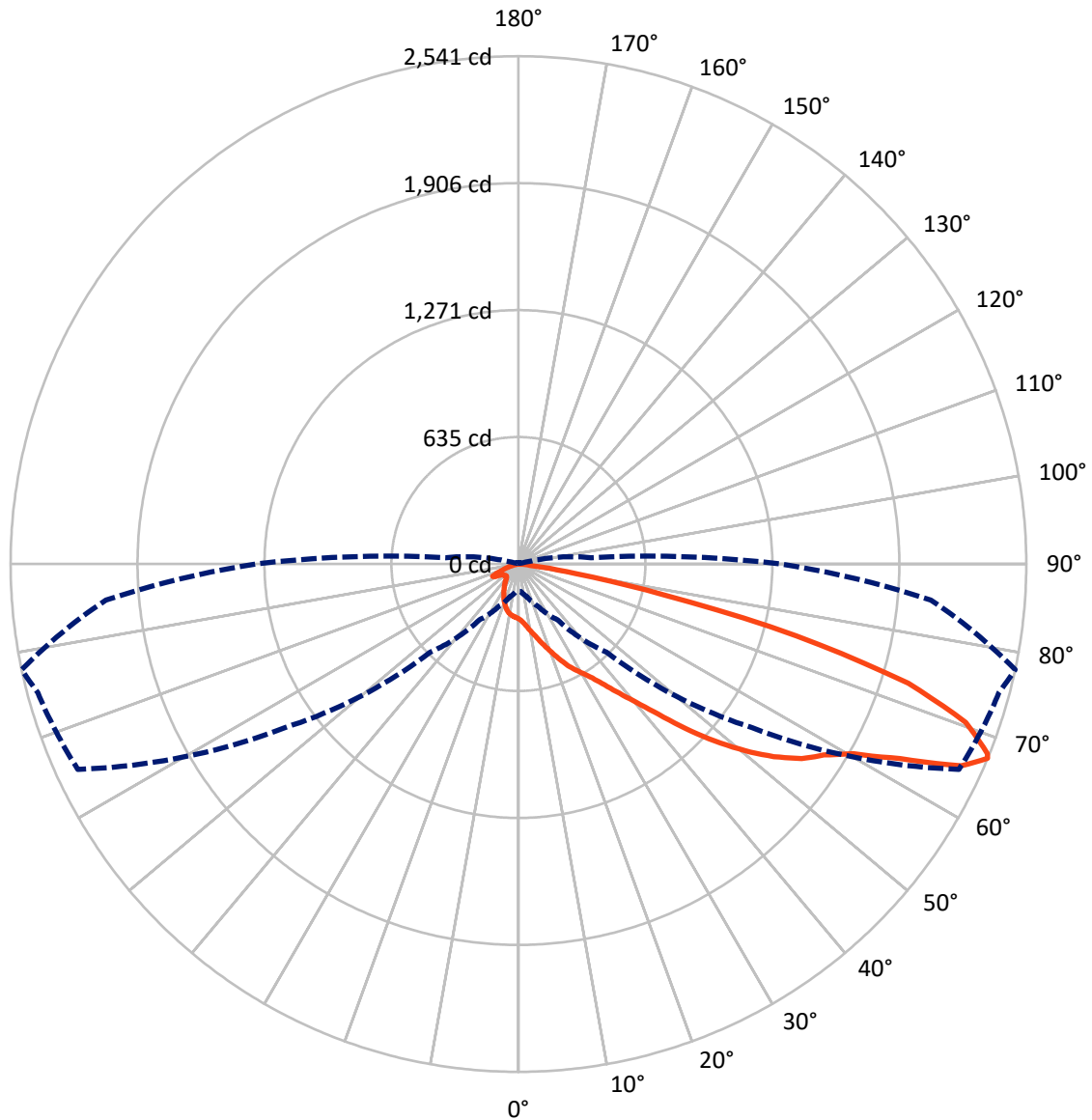


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	166.6	0.0	166.6
	% Fixture	7.1	0.0	7.1
Street Side	Lumens	2195.4	0.0	2195.4
	% Fixture	92.9	0.0	92.9
Total	Lumens	2362.0	0.0	2362.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.4	1.1
10°-20°	75.7	3.2
20°-30°	133.8	5.7
30°-40°	235.9	10.0
40°-50°	405.4	17.2
50°-60°	610.2	25.8
60°-70°	600.5	25.4
70°-80°	262.4	11.1
80°-90°	11.6	0.5
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°	2362.0	100.0
0°-180°	2362.0	100.0



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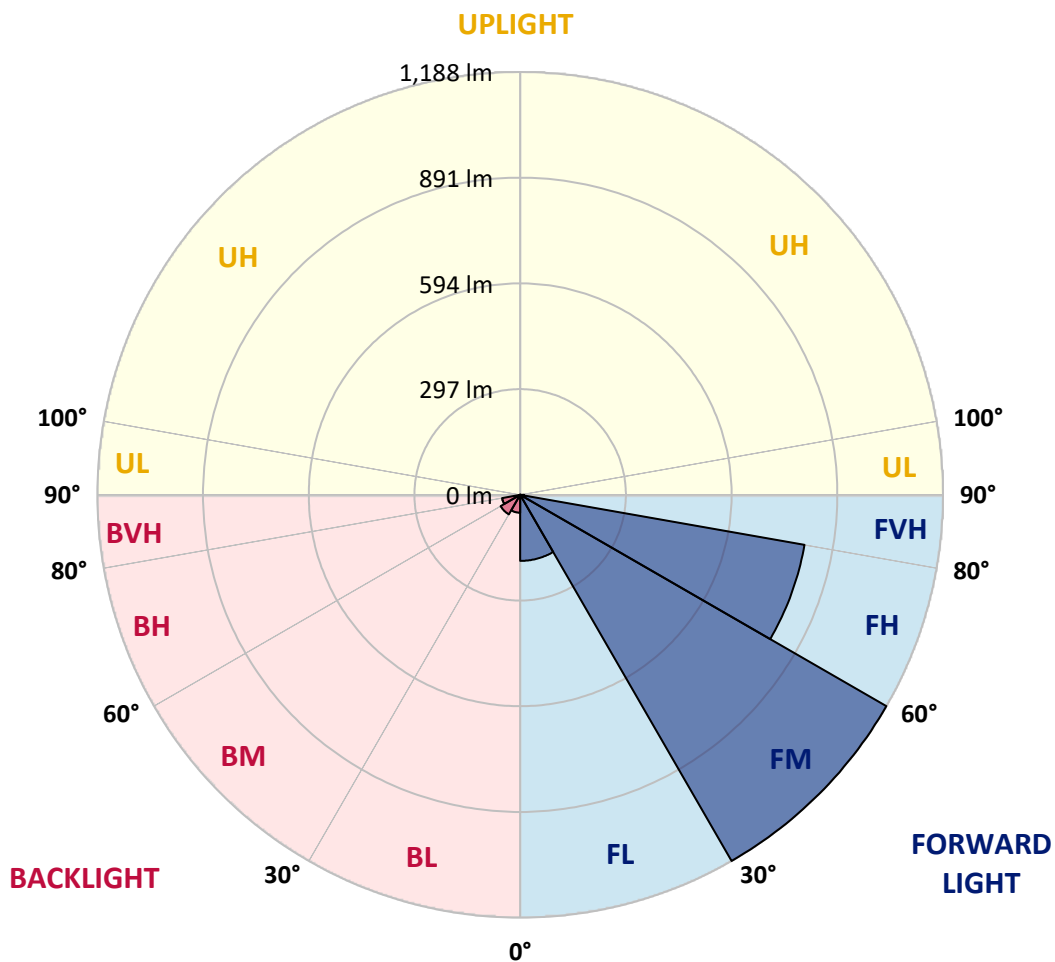
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	185.6	7.9			
FM (30°-60°)	1188.1	50.3			
FH (60°-80°)	811.2	34.3			G1/1800
FVH (80°-90°)	10.4	0.4			G1/100
BL (0°-30°)	50.4	2.1	B0/110		
BM (30°-60°)	63.4	2.7	B0/220		
BH (60°-80°)	51.7	2.2	B0/110		G0/110
BVH (80°-90°)	1.2	0.1			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	274.2	274.2	274.2	274.2	274.2	274.2	274.2	274.2	274.2	274.2	274.2
2.5°	314.6	316.0	314.2	312.8	309.3	304.9	300.4	293.8	286.7	284.0	279.6
5°	353.2	353.2	353.2	349.7	346.6	338.1	327.9	317.7	304.4	299.5	289.3
7.5°	373.6	374.1	375.4	375.4	373.6	367.9	356.8	345.2	325.3	318.6	302.2
10°	375.9	377.6	381.2	386.5	390.5	393.6	387.0	374.5	350.6	342.6	318.6
12.5°	370.1	371.0	376.7	386.5	399.4	412.3	412.7	405.1	378.5	367.4	338.6
15°	356.8	358.1	366.5	382.1	402.0	425.1	438.4	436.2	411.4	398.5	360.8
17.5°	335.5	336.8	347.5	370.5	399.8	433.6	462.0	473.0	443.8	431.3	383.4
20°	334.6	335.0	339.0	356.3	390.9	438.4	485.0	511.2	483.3	469.9	410.0
22.5°	391.4	387.8	379.0	367.9	383.0	437.1	505.9	551.6	532.1	511.2	440.7
25°	454.9	456.2	446.4	420.2	401.2	434.9	521.9	597.3	577.8	556.9	472.2
27.5°	521.4	519.2	510.8	486.8	454.9	450.9	533.4	634.1	621.7	596.4	500.1
30°	586.2	584.4	578.2	553.8	519.2	492.1	542.3	667.4	663.4	635.5	522.7
32.5°	660.3	663.4	655.4	623.5	581.3	548.0	561.4	702.5	714.0	679.8	546.3
35°	746.4	746.4	730.0	700.7	657.2	610.6	599.5	741.1	778.3	741.5	583.5
37.5°	817.4	823.2	813.4	771.2	730.4	681.6	657.6	788.6	857.8	820.5	633.7
40°	873.3	883.1	883.5	841.8	804.1	772.1	738.9	855.6	957.6	909.7	693.6
42.5°	925.2	927.0	934.6	910.6	872.9	864.4	830.3	935.0	1082.3	1026.0	773.5
45°	991.4	994.9	990.5	972.7	940.3	951.4	932.3	1035.7	1222.5	1175.1	867.5
47.5°	1088.5	1097.0	1090.3	1058.4	1018.9	1039.7	1026.0	1136.0	1381.0	1323.3	969.6
50°	1179.5	1186.2	1193.3	1183.1	1143.6	1123.6	1106.7	1242.1	1516.8	1467.9	1069.9
52.5°	1189.3	1195.5	1234.5	1270.5	1296.7	1244.3	1191.5	1349.5	1642.3	1601.5	1161.8
55°	1125.8	1129.8	1195.0	1266.0	1386.3	1404.0	1316.2	1455.5	1747.5	1719.6	1223.4
57.5°	949.2	966.1	1058.8	1167.5	1364.1	1499.0	1493.2	1578.9	1815.9	1803.0	1302.9
60°	623.5	642.1	753.1	917.7	1200.8	1473.7	1687.6	1763.9	1911.7	1925.9	1442.2
62.5°	323.1	344.8	442.4	588.4	870.2	1283.3	1753.7	2067.9	2095.4	2143.8	1690.7
65°	184.6	189.0	237.9	344.8	538.7	919.0	1674.3	2368.8	2337.3	2435.3	2008.0
67°	137.1	137.1	171.3	234.3	341.2	624.8	1428.0	2432.2	2489.5	2541.4	2071.9
67.5°	122.9	129.6	158.9	216.1	306.2	554.3	1336.2	2415.4	2499.2	2531.6	2049.7
70°	84.3	88.8	114.0	154.9	206.3	288.4	876.0	2136.2	2407.8	2375.0	1857.6
72.5°	50.6	52.4	75.4	111.4	154.0	154.4	477.9	1621.5	2040.4	2039.9	1517.2
75°	31.5	33.3	44.4	74.6	107.8	96.7	221.0	1103.2	1465.3	1436.9	1016.6
77.5°	17.8	20.4	26.6	40.8	68.3	61.7	93.2	618.2	791.7	742.8	505.0
80°	7.1	8.4	15.1	19.5	38.6	36.8	38.2	217.4	320.4	288.9	169.1
82.5°	1.8	2.2	5.3	9.3	15.1	15.1	12.0	59.5	75.9	70.6	43.5
85°	0.0	0.0	0.4	0.4	0.4	0.9	3.1	6.7	8.0	9.3	7.1
87.5°	0.0	0.0	0.0	0.4	0.4	0.4	0.9	1.3	1.3	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	274.2	274.2	274.2	274.2	274.2	274.2	274.2	274.2	274.2	274.2	274.2
2.5°	276.0	272.9	266.7	260.0	253.4	248.1	243.6	237.4	236.5	236.5	236.5
5°	281.8	274.7	260.5	246.3	232.1	219.2	209.9	202.4	195.7	193.5	195.3
7.5°	290.2	277.3	252.5	227.6	205.5	187.3	174.0	163.3	158.4	155.8	153.5
10°	301.3	281.3	241.8	205.5	177.5	155.8	141.6	131.4	126.5	123.4	123.8
12.5°	313.3	284.4	228.5	181.5	150.4	130.5	118.5	110.1	102.1	97.2	98.5
15°	325.3	286.7	212.1	159.3	129.6	111.8	95.0	79.9	74.6	73.7	73.2
17.5°	338.6	286.2	193.9	138.5	111.8	87.0	70.1	68.3	67.9	67.9	67.5
20°	352.3	284.0	173.1	121.1	94.1	66.1	63.5	62.6	61.2	60.8	60.4
22.5°	367.4	280.0	154.0	106.1	70.1	60.4	56.8	54.1	51.9	50.6	51.0
25°	381.2	272.5	135.3	91.9	59.9	54.1	49.3	45.3	43.0	41.3	41.7
27.5°	390.5	259.2	119.4	74.1	55.0	47.9	42.2	38.2	35.1	33.7	33.7
30°	391.4	240.1	105.2	60.8	50.1	42.2	35.9	31.5	29.7	28.8	28.4
32.5°	390.5	220.5	94.5	55.9	45.7	36.8	30.6	27.5	25.7	24.9	24.9
35°	394.9	200.6	84.8	51.5	40.8	32.4	27.1	24.0	22.6	21.7	21.7
37.5°	408.3	186.8	74.6	47.0	36.4	28.4	24.4	21.7	20.4	19.5	19.5
40°	426.5	175.3	62.1	42.6	32.0	25.7	22.2	20.0	18.2	17.3	17.3
42.5°	458.4	170.8	51.9	38.2	28.0	23.1	20.4	17.8	16.0	15.1	15.1
45°	505.9	173.1	47.5	34.2	25.3	20.9	18.2	15.5	13.8	13.3	13.3
47.5°	558.2	182.4	44.4	30.6	23.1	19.5	16.4	13.8	12.0	11.5	11.5
50°	616.8	197.0	41.7	27.1	20.9	17.8	14.6	12.0	10.7	10.2	10.2
52.5°	672.7	215.7	39.1	24.4	19.5	16.0	12.9	10.7	9.8	9.3	9.3
55°	715.3	227.6	36.8	22.6	18.2	14.6	11.5	10.2	8.9	8.4	8.4
57.5°	774.8	247.6	34.2	20.4	16.4	13.3	10.7	9.3	8.0	8.0	8.0
60°	895.5	301.3	30.2	18.6	14.6	12.0	10.2	8.4	7.5	7.1	7.1
62.5°	1112.9	390.1	26.2	17.3	12.9	10.7	8.9	7.5	6.7	5.8	5.8
65°	1322.4	426.9	22.2	15.1	11.5	9.3	8.0	6.7	4.9	4.0	4.0
67°	1310.9	365.2	18.6	12.9	9.8	8.4	6.7	5.3	3.6	2.2	2.2
67.5°	1279.8	339.9	18.2	12.4	9.3	8.0	6.7	4.9	3.1	1.8	1.8
70°	1087.6	237.9	14.2	9.8	8.0	7.1	5.3	3.6	1.8	0.9	0.9
72.5°	883.5	188.6	11.1	8.0	6.7	5.3	4.4	2.2	1.3	0.4	0.4
75°	624.8	115.8	9.8	7.1	5.3	4.0	3.6	2.2	1.3	0.9	0.4
77.5°	308.4	53.3	8.0	6.2	4.9	4.0	3.1	2.7	2.2	1.8	0.9
80°	90.5	17.3	5.3	4.4	4.4	4.0	3.6	3.1	2.7	2.2	1.3
82.5°	20.4	6.2	1.8	2.2	3.1	3.1	3.1	2.2	1.8	0.9	0.4
85°	2.7	1.3	1.3	1.3	1.8	1.8	1.3	0.9	0.9	0.0	0.0
87.5°	0.9	0.9	0.9	1.3	1.3	1.3	0.9	0.4	0.4	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)