

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: P401459

Luminaire Tested: **ENV-SA1D-730-U-T2-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401459
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: ENV-SA1D-730-U-T2-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K, 800mA 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: 3891 lumens
Efficiency: N/A
Efficacy: 90.3 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): 43.1
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

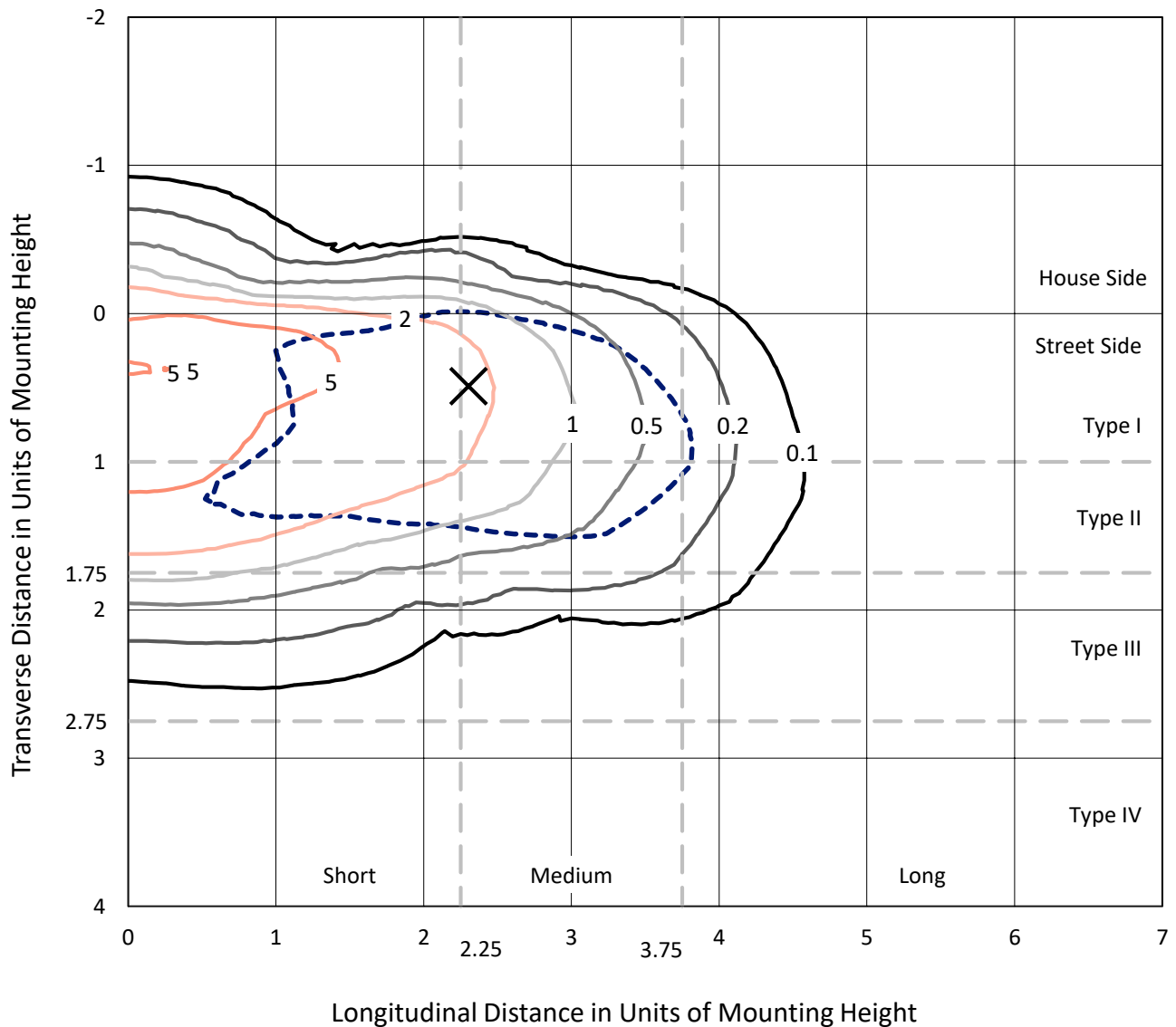


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

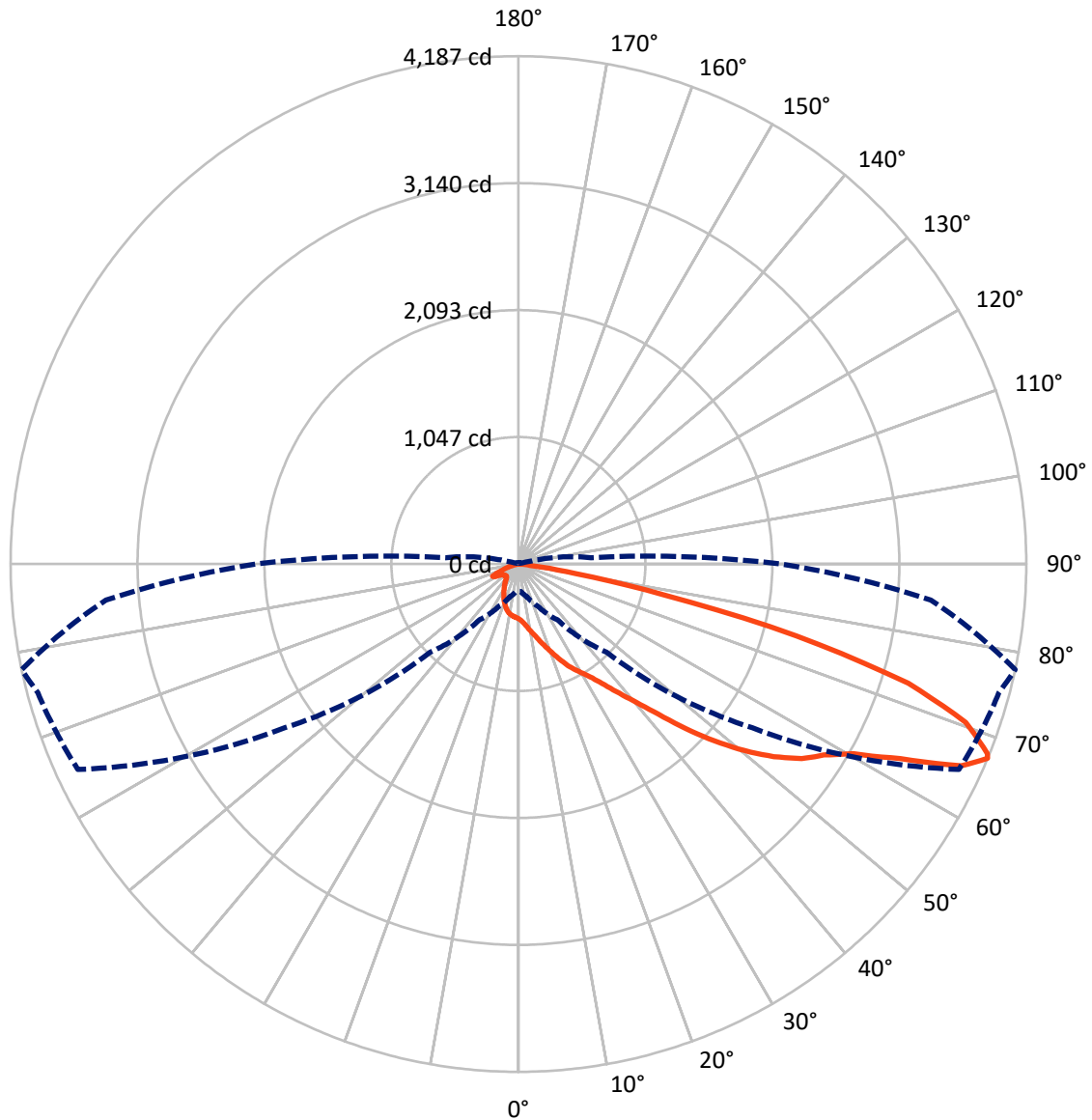


Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Medium - Semi-Cutoff

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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	274.5	0.0	274.5
	% Fixture	7.1	0.0	7.1
Street Side	Lumens	3616.5	0.0	3616.5
	% Fixture	92.9	0.0	92.9
Total	Lumens	3891.0	0.0	3891.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	1.1
10°-20°	124.7	3.2
20°-30°	220.4	5.7
30°-40°	388.6	10.0
40°-50°	667.8	17.2
50°-60°	1005.3	25.8
60°-70°	989.3	25.4
70°-80°	432.3	11.1
80°-90°	19.2	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°	3891.0	100.0
0°-180°	3891.0	100.0



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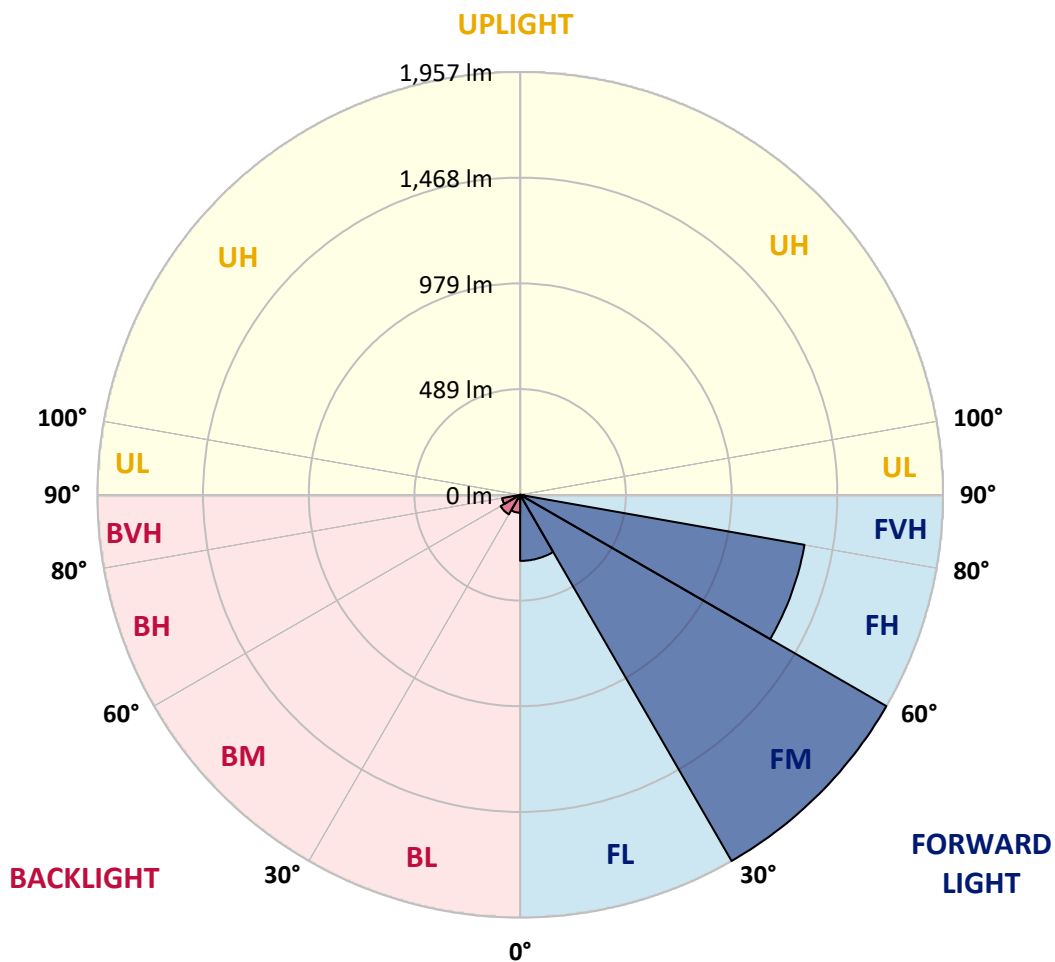
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	305.7	7.9			
FM (30°-60°)	1957.2	50.3			
FH (60°-80°)	1336.4	34.3			G1/1800
FVH (80°-90°)	17.2	0.4			G1/100
BL (0°-30°)	82.9	2.1	B0/110		
BM (30°-60°)	104.4	2.7	B0/220		
BH (60°-80°)	85.2	2.2	B0/110		G0/110
BVH (80°-90°)	2.0	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°	451.8	451.8	451.8	451.8	451.8	451.8	451.8	451.8	451.8	451.8	451.8
2.5°	518.3	520.5	517.6	515.4	509.5	502.2	494.9	483.9	472.2	467.8	460.5
5°	581.9	581.9	581.9	576.0	570.9	557.0	540.2	523.4	501.5	493.4	476.6
7.5°	615.5	616.2	618.4	618.4	615.5	606.0	587.7	568.7	535.8	524.9	497.8
10°	619.2	622.1	627.9	636.7	643.3	648.4	637.4	617.0	577.5	564.3	524.9
12.5°	609.7	611.1	620.6	636.7	657.9	679.1	679.8	667.4	623.6	605.3	557.8
15°	587.7	589.9	603.8	629.4	662.3	700.3	722.2	718.6	677.7	656.5	594.3
17.5°	552.6	554.8	572.4	610.4	658.6	714.2	761.0	779.3	731.0	710.5	631.6
20°	551.2	551.9	558.5	587.0	644.0	722.2	799.0	842.1	796.1	774.1	675.5
22.5°	644.8	638.9	624.3	606.0	630.9	720.0	833.4	908.7	876.5	842.1	725.9
25°	749.3	751.5	735.4	692.3	660.8	716.4	859.7	983.9	951.8	917.4	777.8
27.5°	858.9	855.3	841.4	801.9	749.3	742.7	878.7	1044.6	1024.2	982.5	823.9
30°	965.7	962.7	952.5	912.3	855.3	810.7	893.3	1099.4	1092.9	1046.8	861.1
32.5°	1087.8	1092.9	1079.7	1027.1	957.6	902.8	924.7	1157.2	1176.2	1119.9	899.9
35°	1229.6	1229.6	1202.5	1154.3	1082.6	1005.9	987.6	1220.8	1282.2	1221.5	961.3
37.5°	1346.5	1356.0	1340.0	1270.5	1203.3	1122.8	1083.4	1299.0	1413.1	1351.6	1043.9
40°	1438.6	1454.7	1455.5	1386.7	1324.6	1272.0	1217.1	1409.4	1577.5	1498.6	1142.6
42.5°	1524.2	1527.1	1539.5	1500.0	1437.9	1424.0	1367.7	1540.2	1782.9	1690.1	1274.2
45°	1633.1	1638.9	1631.6	1602.4	1549.0	1567.3	1535.9	1706.2	2013.9	1935.7	1429.1
47.5°	1793.2	1807.1	1796.1	1743.5	1678.4	1712.8	1690.1	1871.4	2274.9	2179.9	1597.3
50°	1943.0	1954.0	1965.7	1948.9	1883.8	1850.9	1823.2	2046.1	2498.6	2418.2	1762.5
52.5°	1959.1	1969.4	2033.7	2092.9	2136.0	2049.8	1962.8	2223.0	2705.5	2638.2	1913.8
55°	1854.6	1861.2	1968.6	2085.6	2283.7	2312.9	2168.2	2397.7	2878.7	2832.7	2015.4
57.5°	1563.6	1591.4	1744.2	1923.3	2247.1	2469.4	2459.9	2601.0	2991.3	2970.1	2146.3
60°	1027.1	1057.8	1240.5	1511.7	1978.1	2427.7	2780.1	2905.8	3149.2	3172.6	2375.8
62.5°	532.2	568.0	728.8	969.3	1433.5	2114.1	2889.0	3406.5	3451.9	3531.5	2785.2
65°	304.1	311.4	391.8	568.0	887.5	1513.9	2758.1	3902.2	3850.3	4011.8	3307.8
67°	225.9	225.9	282.2	386.0	562.2	1029.3	2352.4	4006.7	4101.0	4186.5	3413.1
67.5°	202.5	213.5	261.7	356.0	504.4	913.0	2201.1	3978.9	4117.1	4170.4	3376.6
70°	138.9	146.2	187.9	255.1	339.9	475.2	1443.0	3519.1	3966.5	3912.4	3060.0
72.5°	83.3	86.3	124.3	183.5	253.7	254.4	787.3	2671.1	3361.2	3360.5	2499.3
75°	51.9	54.8	73.1	122.8	177.6	159.4	364.0	1817.3	2413.8	2367.0	1674.8
77.5°	29.2	33.6	43.9	67.3	112.6	101.6	153.5	1018.3	1304.1	1223.7	831.9
80°	11.7	13.9	24.9	32.2	63.6	60.7	62.9	358.2	527.8	475.9	278.5
82.5°	2.9	3.7	8.8	15.4	24.9	24.9	19.7	98.0	125.0	116.2	71.6
85°	0.0	0.0	0.7	0.7	0.7	1.5	5.1	11.0	13.2	15.4	11.7
87.5°	0.0	0.0	0.0	0.7	0.7	0.7	1.5	2.2	2.2	2.2	2.2
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°	451.8	451.8	451.8	451.8	451.8	451.8	451.8	451.8	451.8	451.8	451.8
2.5°	454.7	449.6	439.3	428.4	417.4	408.6	401.3	391.1	389.6	389.6	389.6
5°	464.2	452.5	429.1	405.7	382.3	361.1	345.8	333.3	322.4	318.7	321.6
7.5°	478.1	456.9	415.9	375.0	338.5	308.5	286.6	269.0	261.0	256.6	252.9
10°	496.4	463.5	398.4	338.5	292.4	256.6	233.2	216.4	208.3	203.2	204.0
12.5°	516.1	468.6	376.5	299.0	247.8	214.9	195.2	181.3	168.1	160.1	162.3
15°	535.8	472.2	349.4	262.4	213.5	184.2	156.4	131.6	122.8	121.3	120.6
17.5°	557.8	471.5	319.5	228.1	184.2	143.3	115.5	112.6	111.8	111.8	111.1
20°	580.4	467.8	285.1	199.6	155.0	108.9	104.5	103.1	100.9	100.1	99.4
22.5°	605.3	461.3	253.7	174.7	115.5	99.4	93.6	89.2	85.5	83.3	84.1
25°	627.9	448.8	223.0	151.3	98.7	89.2	81.1	74.6	70.9	68.0	68.7
27.5°	643.3	426.9	196.6	122.1	90.6	78.9	69.4	62.9	57.8	55.6	55.6
30°	644.8	395.5	173.3	100.1	82.6	69.4	59.2	51.9	49.0	47.5	46.8
32.5°	643.3	363.3	155.7	92.1	75.3	60.7	50.4	45.3	42.4	40.9	40.9
35°	650.6	330.4	139.6	84.8	67.3	53.4	44.6	39.5	37.3	35.8	35.8
37.5°	672.5	307.8	122.8	77.5	59.9	46.8	40.2	35.8	33.6	32.2	32.2
40°	702.5	288.8	102.3	70.2	52.6	42.4	36.6	32.9	30.0	28.5	28.5
42.5°	755.1	281.4	85.5	62.9	46.1	38.0	33.6	29.2	26.3	24.9	24.9
45°	833.4	285.1	78.2	56.3	41.7	34.4	30.0	25.6	22.7	21.9	21.9
47.5°	919.6	300.4	73.1	50.4	38.0	32.2	27.0	22.7	19.7	19.0	19.0
50°	1016.1	324.6	68.7	44.6	34.4	29.2	24.1	19.7	17.5	16.8	16.8
52.5°	1108.2	355.3	64.3	40.2	32.2	26.3	21.2	17.5	16.1	15.4	15.4
55°	1178.4	375.0	60.7	37.3	30.0	24.1	19.0	16.8	14.6	13.9	13.9
57.5°	1276.4	407.9	56.3	33.6	27.0	21.9	17.5	15.4	13.2	13.2	13.2
60°	1475.2	496.4	49.7	30.7	24.1	19.7	16.8	13.9	12.4	11.7	11.7
62.5°	1833.4	642.6	43.1	28.5	21.2	17.5	14.6	12.4	11.0	9.5	9.5
65°	2178.4	703.2	36.6	24.9	19.0	15.4	13.2	11.0	8.0	6.6	6.6
67°	2159.4	601.6	30.7	21.2	16.1	13.9	11.0	8.8	5.8	3.7	3.7
67.5°	2108.2	560.0	30.0	20.5	15.4	13.2	11.0	8.0	5.1	2.9	2.9
70°	1791.7	391.8	23.4	16.1	13.2	11.7	8.8	5.8	2.9	1.5	1.5
72.5°	1455.5	310.7	18.3	13.2	11.0	8.8	7.3	3.7	2.2	0.7	0.7
75°	1029.3	190.8	16.1	11.7	8.8	6.6	5.8	3.7	2.2	1.5	0.7
77.5°	508.1	87.7	13.2	10.2	8.0	6.6	5.1	4.4	3.7	2.9	1.5
80°	149.1	28.5	8.8	7.3	7.3	6.6	5.8	5.1	4.4	3.7	2.2
82.5°	33.6	10.2	2.9	3.7	5.1	5.1	5.1	3.7	2.9	1.5	0.7
85°	4.4	2.2	2.2	2.2	2.9	2.9	2.2	1.5	1.5	0.0	0.0
87.5°	1.5	1.5	1.5	2.2	2.2	2.2	1.5	0.7	0.7	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)