

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: P675322

Luminaire Tested: **CCW-SA-1B-835-U-T4W**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675322
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-835-U-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
T4W distribution lens
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2870.9 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

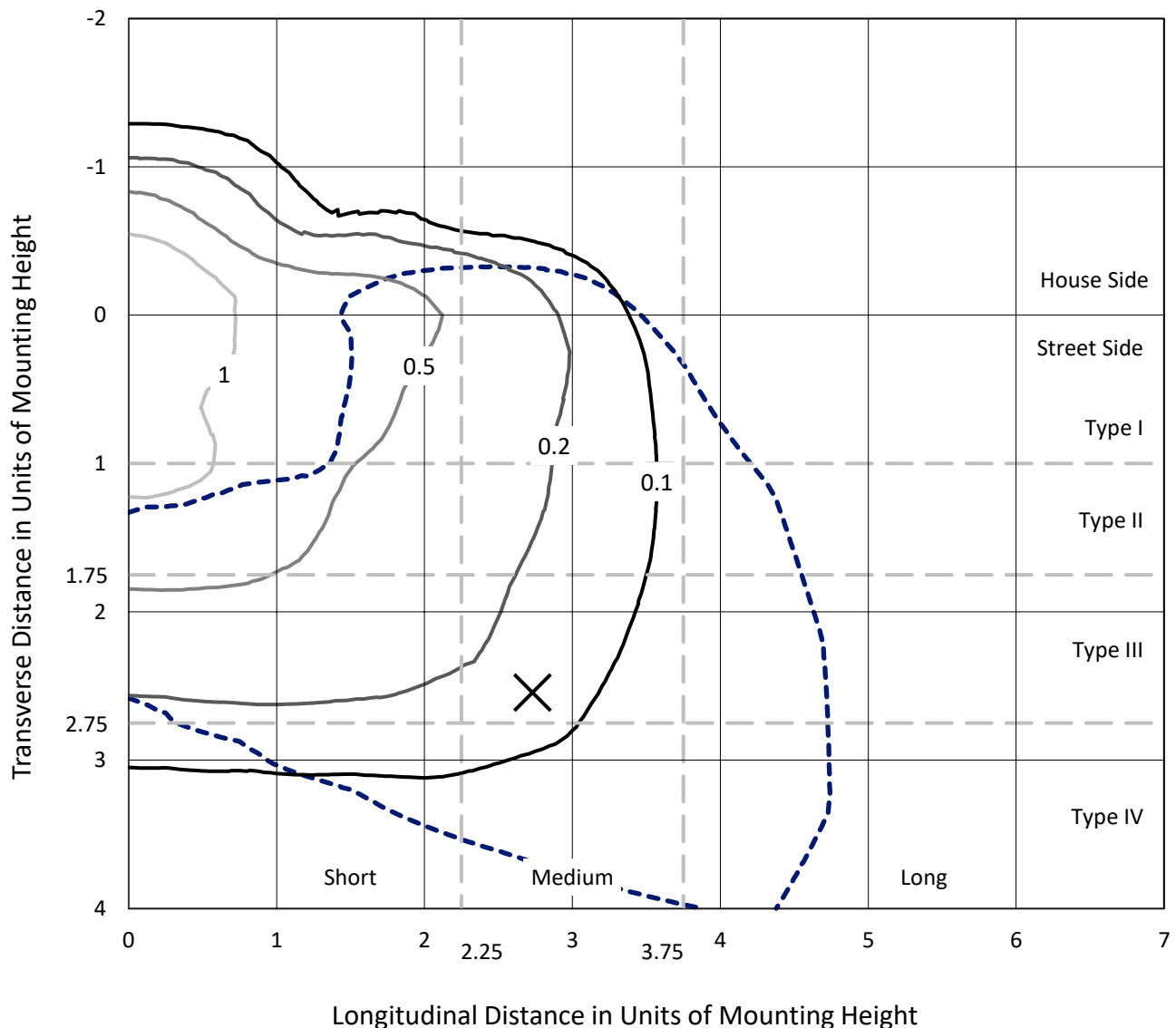
Input Watts (W): 24
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

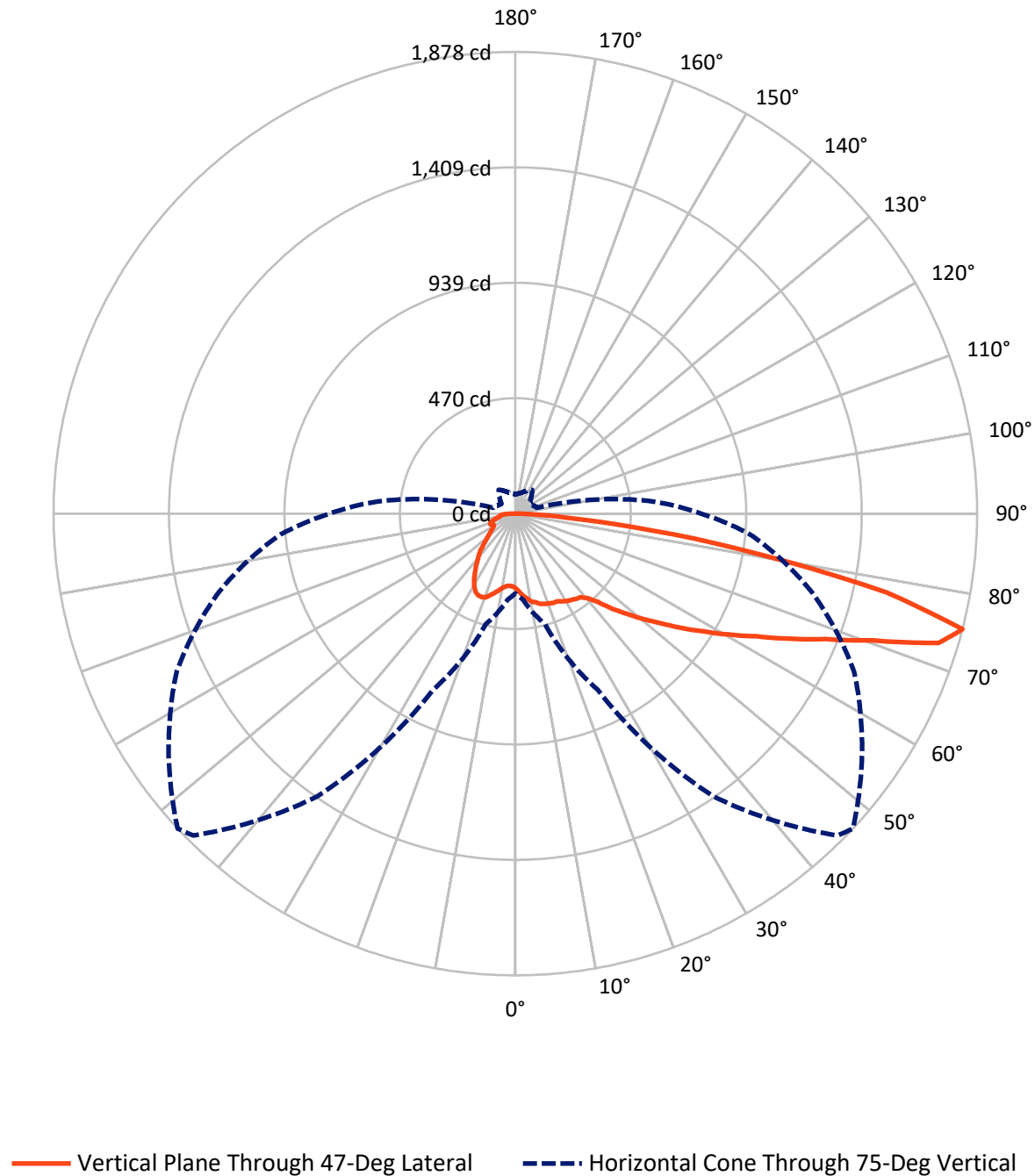
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	686.6	0.0	686.6
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	2184.3	0.0	2184.3
	% Fixture	76.1	0.0	76.1
Total	Lumens	2870.9	0.0	2870.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.8	1.1
10°-20°	102.3	3.6
20°-30°	175.3	6.1
30°-40°	245.3	8.5
40°-50°	342.0	11.9
50°-60°	511.1	17.8
60°-70°	736.9	25.7
70°-80°	627.3	21.8
80°-90°	99.9	3.5
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°	2870.9	100.0
0°-180°	2870.9	100.0



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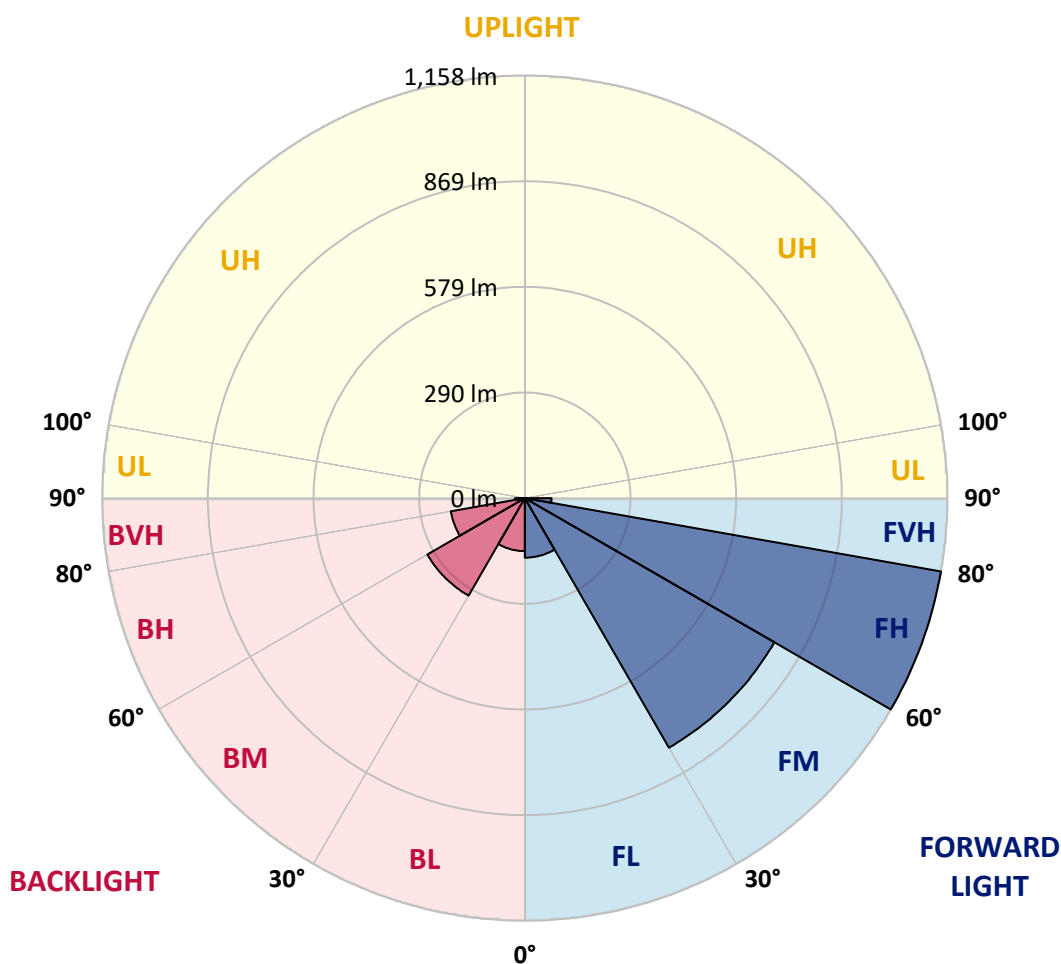
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	163.1	5.7			
FM	(30°-60°)	789.8	27.5			
FH	(60°-80°)	1158.2	40.3			G1/1800
FVH	(80°-90°)	73.2	2.6			G1/100
BL	(0°-30°)	145.3	5.1	B1/500		
BM	(30°-60°)	308.6	10.7	B1/1000		
BH	(60°-80°)	206.0	7.2	B1/500		G1/500
BVH	(80°-90°)	26.7	0.9			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	304.8	304.8	304.8	304.8	304.8	304.8	304.8	304.8	304.8	304.8	304.8
2.5°	326.8	327.9	327.9	325.8	323.7	319.5	319.5	315.3	313.2	308.0	305.9
5°	357.2	354.1	350.9	349.9	344.6	337.3	336.3	332.1	320.5	315.3	308.0
7.5°	379.2	378.2	377.1	372.9	363.5	352.0	348.8	342.5	331.0	320.5	312.2
10°	397.0	401.2	397.0	387.6	378.2	365.6	364.5	353.0	342.5	330.0	319.5
12.5°	416.9	418.0	410.6	399.1	384.4	374.0	369.8	365.6	354.1	343.6	327.9
15°	430.5	428.4	423.2	407.5	390.7	380.2	381.3	376.1	363.5	356.2	339.4
17.5°	430.5	430.5	422.1	410.6	396.0	386.5	386.5	383.4	375.0	364.5	353.0
20°	422.1	422.1	416.9	410.6	393.9	391.8	389.7	387.6	387.6	378.2	361.4
22.5°	411.7	409.6	411.7	401.2	389.7	391.8	394.9	393.9	390.7	382.3	370.8
25°	401.2	402.2	404.3	397.0	386.5	396.0	394.9	400.2	398.1	391.8	382.3
27.5°	400.2	402.2	403.3	396.0	391.8	400.2	404.3	409.6	410.6	404.3	392.8
30°	415.9	414.8	413.8	404.3	401.2	408.5	412.7	420.1	426.3	412.7	403.3
32.5°	456.7	450.4	444.1	419.0	409.6	414.8	419.0	429.5	430.5	423.2	409.6
35°	521.7	517.5	496.5	452.5	426.3	421.1	425.3	432.6	434.7	429.5	419.0
37.5°	596.0	593.9	564.6	511.2	460.9	435.8	431.6	442.1	450.4	438.9	424.2
40°	669.4	661.0	640.0	587.7	504.9	457.8	452.5	457.8	460.9	452.5	443.1
42.5°	735.4	725.9	720.7	668.3	562.5	494.4	490.2	477.7	487.1	476.6	464.0
45°	790.9	788.8	786.7	741.6	628.5	554.1	551.0	518.5	529.0	520.6	502.8
47.5°	830.7	840.1	837.0	811.8	703.9	618.0	608.6	566.7	582.4	574.0	556.2
50°	877.8	883.1	879.9	863.2	774.1	691.4	673.6	630.6	648.4	647.4	637.9
52.5°	919.7	935.4	917.6	916.6	874.7	771.0	740.6	699.7	729.1	740.6	739.5
55°	969.0	981.5	976.3	974.2	964.8	848.5	821.3	772.0	821.3	838.0	852.7
57.5°	1010.9	1009.8	1029.7	1053.8	1065.3	937.5	905.1	847.4	921.8	940.7	981.5
60°	1029.7	1047.5	1081.0	1141.8	1174.3	1032.8	999.3	953.2	1023.4	1038.1	1113.5
62.5°	1042.3	1058.0	1122.9	1225.6	1244.4	1130.3	1098.8	1052.8	1134.5	1144.9	1257.0
65°	1007.7	1022.4	1151.2	1257.0	1324.1	1235.0	1227.7	1179.5	1245.5	1251.8	1407.9
67.5°	967.9	983.6	1127.1	1296.8	1429.9	1374.3	1362.8	1305.2	1355.5	1348.2	1523.1
70°	897.7	918.7	1065.3	1331.4	1547.2	1569.2	1546.1	1464.4	1469.7	1400.5	1528.3
72.5°	684.0	697.6	833.8	1194.2	1601.6	1839.4	1799.6	1636.2	1576.5	1411.0	1349.2
75°	324.7	349.9	465.1	789.8	1403.7	1852.0	1878.2	1721.1	1519.9	1251.8	956.4
77.5°	94.3	94.3	141.4	335.2	879.9	1492.7	1541.9	1461.3	1253.9	927.1	502.8
80°	51.3	54.5	74.4	118.4	386.5	941.7	1012.9	969.0	738.5	366.6	129.9
82.5°	29.3	30.4	49.2	71.2	176.0	512.2	554.1	502.8	280.7	111.0	60.8
85°	16.8	17.8	28.3	47.1	104.8	188.6	205.3	178.1	113.1	74.4	30.4
87.5°	8.4	8.4	13.6	22.0	53.4	53.4	52.4	63.9	68.1	45.0	13.6
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°	304.8	304.8	304.8	304.8	304.8	304.8	304.8	304.8	304.8	304.8	304.8
2.5°	304.8	303.8	303.8	299.6	298.5	295.4	295.4	293.3	292.3	295.4	295.4
5°	305.9	300.6	299.6	295.4	296.4	294.4	298.5	296.4	295.4	295.4	294.4
7.5°	308.0	302.7	298.5	295.4	294.4	297.5	302.7	302.7	309.0	305.9	305.9
10°	313.2	310.1	304.8	302.7	302.7	305.9	312.2	316.3	321.6	321.6	318.4
12.5°	325.8	320.5	314.3	311.1	315.3	318.4	324.7	328.9	335.2	337.3	335.2
15°	335.2	330.0	327.9	325.8	328.9	333.1	338.3	342.5	349.9	352.0	350.9
17.5°	347.8	341.5	340.4	341.5	343.6	346.7	349.9	353.0	358.2	358.2	358.2
20°	354.1	352.0	350.9	354.1	358.2	362.4	360.3	358.2	357.2	359.3	358.2
22.5°	365.6	363.5	364.5	367.7	367.7	365.6	362.4	355.1	353.0	355.1	353.0
25°	376.1	374.0	374.0	371.9	370.8	363.5	357.2	350.9	343.6	346.7	345.7
27.5°	386.5	385.5	385.5	377.1	366.6	354.1	345.7	338.3	334.2	339.4	336.3
30°	399.1	400.2	394.9	375.0	349.9	336.3	326.8	325.8	324.7	327.9	326.8
32.5°	410.6	411.7	403.3	371.9	337.3	311.1	301.7	302.7	308.0	313.2	318.4
35°	416.9	422.1	411.7	361.4	312.2	282.8	272.4	281.8	291.2	298.5	303.8
37.5°	428.4	442.1	424.2	349.9	290.2	257.7	250.4	253.5	265.0	276.5	281.8
40°	445.2	460.9	427.4	327.9	260.8	232.5	228.4	229.4	233.6	240.9	246.2
42.5°	474.5	491.3	430.5	299.6	231.5	216.8	205.3	202.2	199.0	199.0	198.0
45°	517.5	533.2	426.3	264.0	202.2	191.7	183.3	176.0	167.6	154.0	156.1
47.5°	580.3	592.9	429.5	232.5	174.9	166.6	160.3	151.9	139.3	124.7	123.6
50°	675.6	656.8	425.3	200.1	155.0	147.7	142.5	130.9	116.3	105.8	104.8
52.5°	786.7	749.0	421.1	172.8	138.3	132.0	127.8	115.2	101.6	96.4	95.3
55°	920.8	866.3	427.4	148.7	125.7	120.5	116.3	104.8	94.3	90.1	89.0
57.5°	1078.9	993.0	462.0	129.9	112.1	110.0	108.9	99.5	90.1	86.9	85.9
60°	1227.7	1114.6	485.0	116.3	99.5	101.6	103.7	99.5	89.0	86.9	86.9
62.5°	1352.3	1215.1	448.3	104.8	93.2	99.5	108.9	105.8	101.6	103.7	101.6
65°	1462.3	1249.7	335.2	98.5	90.1	104.8	120.5	119.4	110.0	112.1	111.0
67.5°	1481.2	1207.8	218.9	93.2	88.0	115.2	135.1	122.6	103.7	103.7	100.6
70°	1402.6	1095.7	146.7	88.0	86.9	115.2	138.3	115.2	97.4	97.4	93.2
72.5°	1151.2	875.7	113.1	82.8	79.6	102.7	130.9	108.9	91.1	89.0	81.7
75°	756.3	564.6	92.2	78.6	69.1	90.1	118.4	100.6	86.9	80.7	77.5
77.5°	370.8	253.5	77.5	69.1	59.7	78.6	107.9	95.3	81.7	75.4	73.3
80°	101.6	91.1	64.9	60.8	50.3	68.1	101.6	91.1	76.5	70.2	67.0
82.5°	57.6	56.6	52.4	49.2	41.9	68.1	102.7	91.1	72.3	71.2	60.8
85°	31.4	33.5	37.7	36.7	32.5	60.8	97.4	79.6	58.7	49.2	49.2
87.5°	12.6	15.7	18.9	21.0	22.0	45.0	73.3	60.8	45.0	37.7	37.7
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)