

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: P675688

Luminaire Tested: **CCW-SA-1B-735-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675688
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-735-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SL4 distribution lens
Light Source: (16) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

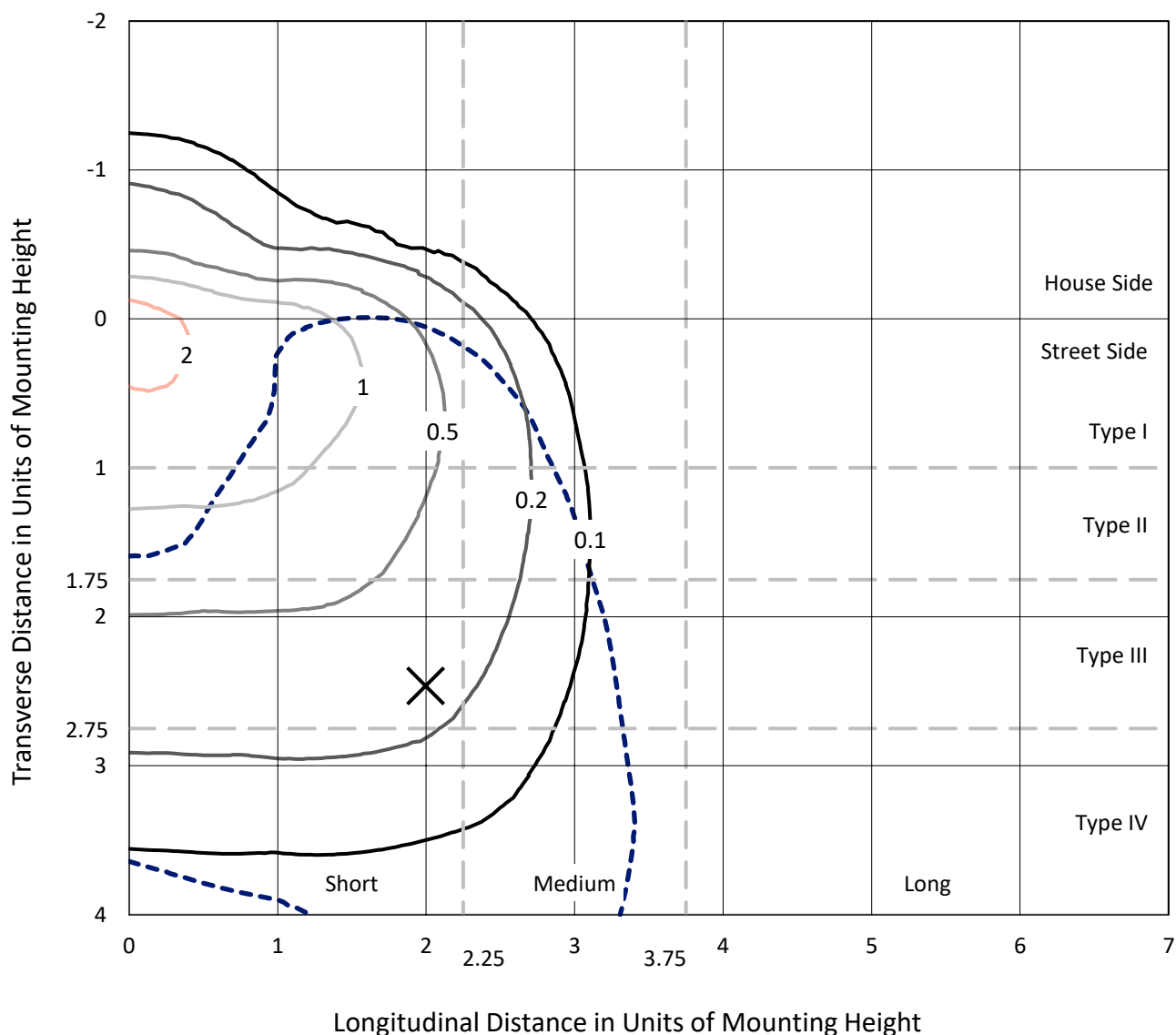
Lumens per Lamp: N/A
Luminaire Lumens: 3337.9 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

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

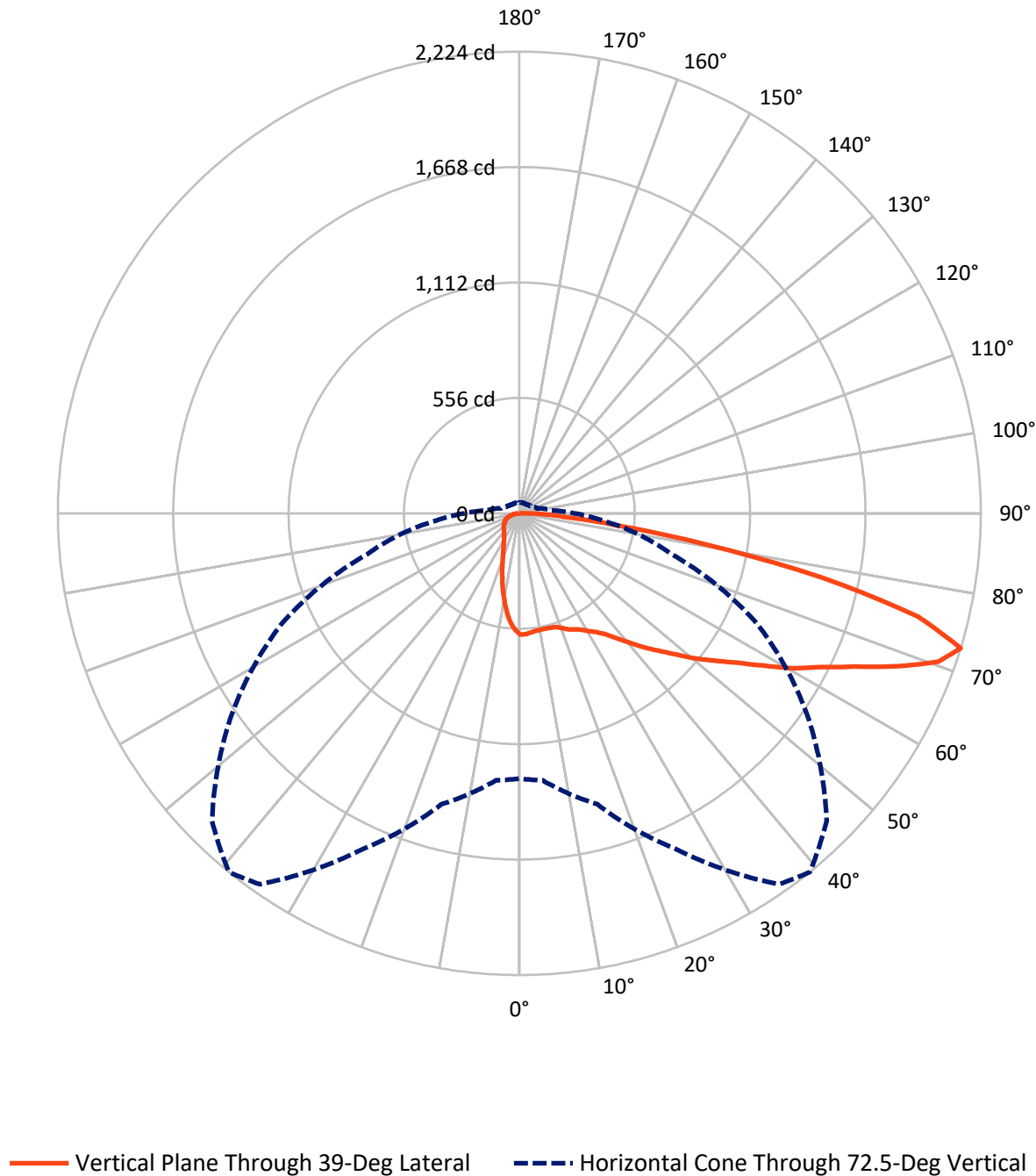
× Max cd
 --- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	496.1	0.0	496.1
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	2841.8	0.0	2841.8
	% Fixture	85.1	0.0	85.1
Total	Lumens	3337.9	0.0	3337.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	1.5
10°-20°	131.8	3.9
20°-30°	200.8	6.0
30°-40°	293.7	8.8
40°-50°	449.6	13.5
50°-60°	659.4	19.8
60°-70°	841.0	25.2
70°-80°	607.6	18.2
80°-90°	102.5	3.1
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°	3337.9	100.0
0°-180°	3337.9	100.0

Coefficient of Utilization



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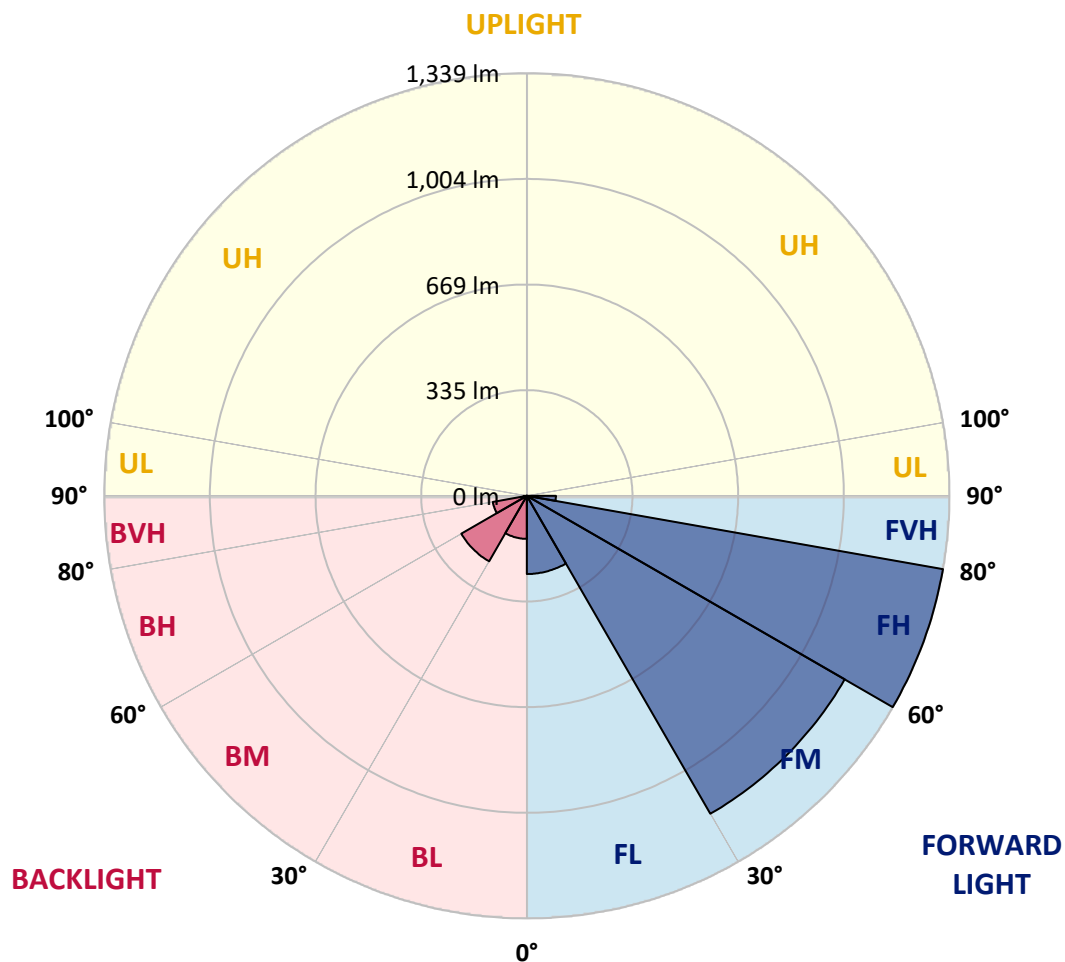
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	247.7	7.4			
FM	(30°-60°)	1163.0	34.8			
FH	(60°-80°)	1339.0	40.1			G1/1800
FVH	(80°-90°)	92.1	2.8			G1/100
BL	(0°-30°)	136.4	4.1	B1/500		
BM	(30°-60°)	239.6	7.2	B1/1000		
BH	(60°-80°)	109.6	3.3	B0/110		G0/110
BVH	(80°-90°)	10.4	0.3			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	584.3	584.3	584.3	584.3	584.3	584.3	584.3	584.3	584.3	584.3	584.3
2.5°	593.1	594.3	591.8	589.3	588.0	583.0	588.0	585.5	583.0	583.0	583.0
5°	585.5	586.8	586.8	584.3	585.5	576.8	575.5	576.8	573.0	570.5	569.2
7.5°	574.2	576.8	581.8	580.5	575.5	571.7	573.0	571.7	565.5	561.7	551.7
10°	565.5	568.0	570.5	573.0	571.7	570.5	569.2	564.2	563.0	554.2	544.2
12.5°	556.7	556.7	557.9	568.0	569.2	569.2	561.7	561.7	557.9	556.7	541.6
15°	547.9	551.7	561.7	564.2	569.2	571.7	568.0	568.0	561.7	552.9	541.6
17.5°	550.4	556.7	566.7	573.0	575.5	575.5	580.5	576.8	568.0	563.0	551.7
20°	563.0	564.2	576.8	588.0	590.5	590.5	585.5	581.8	575.5	566.7	551.7
22.5°	570.5	579.3	594.3	600.6	608.1	608.1	601.8	593.1	584.3	575.5	559.2
25°	603.1	604.3	610.6	620.6	624.4	619.4	613.1	603.1	591.8	583.0	568.0
27.5°	625.7	631.9	639.4	644.5	638.2	634.4	629.4	618.1	609.4	601.8	580.5
30°	667.0	659.5	664.5	667.0	655.7	658.3	644.5	634.4	624.4	624.4	600.6
32.5°	692.1	698.4	693.4	692.1	683.3	682.1	673.3	662.0	655.7	663.3	630.7
35°	736.0	732.2	732.2	731.0	720.9	714.7	714.7	694.6	700.9	717.2	677.1
37.5°	758.6	757.3	764.8	771.1	761.1	764.8	761.1	752.3	754.8	783.6	734.7
40°	781.1	789.9	805.0	807.5	813.7	818.7	816.2	815.0	825.0	871.4	812.5
42.5°	802.4	810.0	832.5	852.6	867.6	883.9	885.2	885.2	917.8	984.2	906.5
45°	830.0	836.3	867.6	907.8	932.8	944.1	954.2	965.4	1009.3	1088.3	1006.8
47.5°	867.6	872.7	910.3	960.4	1009.3	1015.6	1035.7	1048.2	1114.6	1194.9	1109.6
50°	921.6	917.8	947.9	1020.6	1068.3	1098.3	1127.2	1149.8	1214.9	1302.7	1189.9
52.5°	965.4	965.4	988.0	1084.6	1149.8	1178.6	1208.7	1240.0	1315.3	1410.5	1255.1
55°	1040.7	1033.1	1046.9	1147.2	1241.3	1268.9	1326.5	1352.9	1425.6	1490.8	1310.2
57.5°	1092.1	1095.8	1112.1	1230.0	1349.1	1383.0	1440.6	1459.4	1523.4	1574.8	1350.4
60°	1159.8	1147.2	1182.3	1321.5	1468.2	1515.9	1563.5	1574.8	1622.4	1628.7	1369.2
62.5°	1225.0	1222.5	1252.6	1413.1	1596.1	1630.0	1678.9	1691.4	1711.5	1671.3	1342.8
65°	1265.1	1281.4	1337.8	1513.4	1741.6	1779.2	1828.1	1803.0	1780.4	1633.7	1213.7
67.5°	1320.3	1327.8	1414.3	1622.4	1909.6	1966.0	2008.6	1909.6	1741.6	1479.5	1021.9
70°	1332.8	1352.9	1465.7	1736.5	2082.6	2140.3	2142.8	1873.2	1599.9	1203.7	741.0
72.5°	1277.6	1291.4	1450.7	1784.2	2181.6	2224.3	2095.1	1693.9	1267.6	758.6	403.7
75°	1074.5	1113.4	1262.6	1637.5	1999.8	1983.5	1775.4	1292.7	761.1	336.0	170.5
77.5°	748.5	749.8	905.3	1191.1	1497.1	1493.3	1266.4	749.8	326.0	135.4	100.3
80°	332.3	356.1	450.1	642.0	909.0	909.0	738.5	372.4	163.0	87.8	69.0
82.5°	195.6	203.1	240.7	299.7	442.6	466.4	353.6	248.3	111.6	55.2	42.6
85°	144.2	156.7	179.3	180.5	209.4	213.1	195.6	215.7	76.5	30.1	35.1
87.5°	107.8	115.4	142.9	119.1	111.6	105.3	120.4	220.7	28.8	15.0	11.3
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°	584.3	584.3	584.3	584.3	584.3	584.3	584.3	584.3	584.3	584.3	584.3
2.5°	578.0	578.0	575.5	570.5	570.5	560.5	563.0	565.5	559.2	559.2	560.5
5°	569.2	564.2	557.9	550.4	545.4	531.6	529.1	520.3	519.1	516.6	512.8
7.5°	551.7	544.2	532.9	521.6	505.3	492.8	477.7	465.2	460.2	456.4	455.1
10°	535.4	534.1	515.3	492.8	467.7	443.9	421.3	405.0	395.0	388.7	387.4
12.5°	535.4	525.3	499.0	467.7	431.3	396.2	367.4	344.8	331.0	321.0	317.2
15°	532.9	522.8	487.7	440.1	398.7	351.1	310.9	287.1	267.1	257.0	258.3
17.5°	535.4	520.3	471.4	420.0	362.4	310.9	263.3	234.5	214.4	206.9	205.6
20°	536.6	517.8	458.9	392.4	324.7	267.1	221.9	194.3	179.3	174.3	174.3
22.5°	534.1	510.3	440.1	359.8	292.1	230.7	193.1	169.3	159.2	153.0	155.5
25°	545.4	509.0	422.5	332.3	254.5	200.6	171.8	154.2	148.0	144.2	145.4
27.5°	547.9	509.0	408.7	300.9	221.9	178.0	155.5	144.2	139.2	136.7	135.4
30°	557.9	511.6	392.4	269.6	195.6	160.5	142.9	136.7	132.9	131.7	131.7
32.5°	585.5	519.1	374.9	243.2	173.0	145.4	134.2	129.1	126.6	125.4	126.6
35°	618.1	539.1	356.1	215.7	156.7	135.4	126.6	122.9	121.6	121.6	121.6
37.5°	668.3	569.2	339.8	193.1	142.9	125.4	119.1	117.9	116.6	117.9	117.9
40°	726.0	601.8	324.7	175.5	132.9	119.1	112.8	112.8	111.6	112.8	114.1
42.5°	792.4	642.0	309.7	158.0	124.1	114.1	109.1	107.8	106.6	109.1	110.3
45°	883.9	697.1	299.7	148.0	117.9	109.1	104.1	104.1	102.8	102.8	105.3
47.5°	960.4	749.8	299.7	137.9	114.1	105.3	100.3	100.3	97.8	99.1	99.1
50°	1024.4	794.9	305.9	135.4	109.1	101.6	97.8	95.3	94.0	94.0	94.0
52.5°	1067.0	822.5	310.9	132.9	106.6	96.5	94.0	92.8	90.3	89.0	90.3
55°	1109.6	841.3	312.2	132.9	102.8	91.5	89.0	89.0	86.5	85.3	85.3
57.5°	1125.9	833.8	294.6	130.4	100.3	87.8	85.3	84.0	82.8	81.5	81.5
60°	1118.4	806.2	255.8	124.1	97.8	85.3	80.2	80.2	80.2	77.7	79.0
62.5°	1067.0	712.2	205.6	114.1	94.0	80.2	75.2	77.7	77.7	76.5	76.5
65°	931.6	588.0	166.8	105.3	89.0	76.5	71.5	75.2	76.5	75.2	74.0
67.5°	744.8	452.6	137.9	95.3	82.8	70.2	66.5	70.2	71.5	70.2	70.2
70°	511.6	292.1	111.6	85.3	74.0	63.9	60.2	62.7	62.7	63.9	63.9
72.5°	264.6	158.0	91.5	72.7	63.9	57.7	53.9	53.9	52.7	52.7	52.7
75°	131.7	107.8	76.5	61.4	53.9	48.9	46.4	43.9	43.9	43.9	43.9
77.5°	91.5	82.8	62.7	48.9	43.9	40.1	40.1	36.4	36.4	36.4	36.4
80°	69.0	65.2	47.6	37.6	33.9	31.3	31.3	30.1	30.1	28.8	28.8
82.5°	48.9	52.7	36.4	27.6	25.1	23.8	23.8	22.6	22.6	20.1	20.1
85°	38.9	43.9	27.6	20.1	18.8	16.3	16.3	15.0	15.0	13.8	12.5
87.5°	11.3	23.8	11.3	7.5	7.5	7.5	7.5	6.3	6.3	5.0	5.0
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)